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ONLINE GRADUATE APPLICATION SYSTEM

A Project

Presented to the

Faculty of

California State University,

San Bernardino

In Partial Fulfillment

of the Requirements for the Degree

Master of Science

in

Computer Science

by

You Li

December 2013

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December 2013

Approved by:

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of Computer Science and Engineering
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11/20/13 Date

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ABSTRACT

The Online Graduate Application System (OGAS) is designed to improve on an earlier (2005) project 'Graduate Advising System: Application Component' done by Mr. Kyle Rotte. OGAS has four major interfaces - Applicants, Recommenders, Graduate Admissions Coordinator/Assistant and System Administrator and is developed using PHP, JQuery and MySQL.

The features that are continued from Mr. Rotte's project include: the ability for an applicant to submit and track an application; a recommender to submit recommendations; the Graduate Admissions Assistant to monitor the status of applications; and the Graduate Admissions Coordinator to review and evaluate both the application and recommendations and then provide an admission decision. OGAS provides the following improvements: ability for an applicant to ask questions and get automatic response either from the system or the Graduate Admissions Assistant; an applicant to provide changes to the references after submission of an application; generate the forms in the same layout as the paper-based forms; and more importantly, to make changes to the interfaces with minimal programming.

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CHAPTER ONE

INTRODUCTION

1.1 Background

Currently the School of Computer Science and Engineering (CSE) at California State University, San Bernardino (CSUSB) does not have a Web-based graduate application system to handle the graduate application process and maintain graduate applicants' data.

There is an earlier project in 2005, "Graduate Advising System: Application Component" by Kyle Rene Rotte who designed an application component for the Graduate Advising System (GRADS). Kyle's application component has the following features: (1) allows applicants to submit and track their applications; (2) allows references to submit recommendations; and (3) allows the Graduate Admission Assistant to monitor the status of the application and the Graduate Admission Coordinator to review and evaluate the application and recommendations.

However, this project was not implemented and launched due to technical difficulties beyond the control of Mr. Rotte.

My project aims to design, implement and launch a new application system - "Online Graduate Application System (OGAS)". In addition to keeping the features of the application component designed by Mr.Rotte, the OGAS will provide more features to improve the usability of the system.

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Table 1. Rotte's Application System VS Online Graduate Application System

Features	Rotte's	OGAS
	- System	2.4
Allows applicants to submit and track their	Yes	Yes
applications		
Allows references to submit the recommendations	Yes	Yes
Allows the Graduate Admission Assistant to monitor the	Yes	Yes
status of the application		
Allows the Graduate Admission Coordinator to review	Yes	Yes
and evaluate the application and recommendations		
Allows applicants to change the reference(s) after	No	Yes
submitting the application		
Allows applicants to ask questions about the	No	Yes
application process		
Generates the Application Form, the Letter of	No	Yes
Reference Form, the Admission Evaluation Form, and the	1	
Graduate Decision Form in the same layout as the		
current paper-based forms		

1.2 Significance

The OGAS simplifies the process of submitting the application by allowing applicants to submit and track their applications online and recommenders to submit and/or upload their recommendations online. The traditional paperbased application form and letter of reference form will no longer be sent via email or snail mail. Thus, it significantly improves the department's efficiency in processing an application.

All required information for an application can be saved before submission so that the applicants can work on the applications in multiple sessions. The Graduate Admissions Coordinator (GAC) and the Graduate Admissions Assistant (GAA) can monitor and update the status of an application. Updated information will be accessible to applicants, the GAC and the GAA. The system will track an application process and give appropriate feedback and responses to applicants, recommenders, the GAA, and the GAC automatically.

1.3 Purpose

The purpose of OGAS is to allow potential CSE graduate students to submit and track their online applications. In addition, applicants can change and modify their references via OGAS. As part of the application requirements, the system will allow recommenders to submit and/or upload their recommendations online. Also, the system will allow the GAA to monitor their applications and the GAC to evaluate application/recommendation and make admit decisions. Once an application is submitted, the system will be able to verify and validate the application by checking against admission requirements and validation rules.

1.4 Definitions

The following terms are defined as they apply to this project.

Table 2. Definitions

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Term	Definition
Applicant	A prospective student applying for
	the MS CS degree in CSE.
Browser	A software application that accesses
	and displays data available on the
	Internet and local networks.
CSE	School of Computer Science and
	Engineering.
CSUSB	California State University, San
	Bernardino.
Graduate Admissions Assistant	A staff member who assists the
	Graduate Admissions Coordinator in
	processing graduate applications.
Graduate Admissions	A faculty member who evaluates
Coordinator	applications and admits students
	into the program.
Graphical User Interface (GUI)	A visual display of files, icons,
	and menus that allow users to
	interact with a computer.
Hypertext Markup Language	A markup language for structuring
(HTML)	text, images, and other data that
	can be displayed in a web browser.
JavaScript	An interpreted computer programming
	language for development functions
	that allow client-side scripts to
	interact with the user, control the
	browser, communicate asynchronously
	with a web server, and alter the
	document content that is displayed.
JQuery	An open-source cross-browser
	JavaScript library designed to
	simplify the client-side scripting
	of HTML.
Module	A component of a program.
MySQL	An open-source relational database
	management system.
PHP Hypertext Preprocessor	A server-side scripting language
(PHP)	designed for web development.
Recommender	A person who submits a letter of
	reference for applicants.
Status	The state to indicate that if the
	application is completed or not.
Uniform Resource Locator (URL)	A specific character string that
	constitutes a reference to a
	resource.

CHAPTER TWO

SOFTWARE REQUIREMENTS SPECIFICATION

2.1 Project Scope

The specific requirements for OGAS are based on requirements identified in Mr. Rotte's project as well as the current traditional paper-based application process. The following steps are required in this project:

- Do a thorough analysis of Mr. Rotte's project and the current paper-based application process (including admission requirements and processing steps).
 - 2. Work with the GAA and the GAC to figure out current limitations, problems, and possible new requirements.
 - Design a new database structure based on the results of 1 and 2.

 Design new graphical user interfaces for applicants, recommenders, the GAC, and the GAA. The following Computer Science core theories: database design (conceptual modeling, normalization and query processing), software engineering principles (testing),

computing algorithms, and system administration have been applied in this project.

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2.2.1 Use-Case Diagram



Figure 1. Use Case Diagram

2.2.2 System Interfaces

On the system level, OGAS will employ three major components as system interfaces: client x86 machines, a web server, and a database server.

The client x86 machines are computers used by applicants, the GAA, and the GAC. A browser is required on these computers to display the graphical user interface and data retrieved from the Web Server.

The web server hosts the application program files of OGAS and its supporting programs, such as HTML, JQuery, and PHP. The web server is the data processing unit between clients and the database server. Basically, it saves the data collected from client machines into the database server and passes to client machines the information queried from the database server.

The database server provides structured spaces for storing both the application and the system information. The application information includes all data related to an application. The system information includes the user interface settings and system settings.



Figure 2. Deployment Diagram for Online Graduate Application System

2.3 Users

The users of OGAS are classified into five types:

- Applicant: A prospective student applying for the MS CS degree in CSE.
- Recommender: A professor who provides recommendation for applicants.
- 3. Graduate Admissions Coordinator: A faculty member who evaluates applications and makes admission decisions.

- 4. Graduate Admissions Assistant: A staff member who assists the Graduate Admissions Coordinator in processing graduate applications.
- 5. Database Administrator/Developer: A staff member who administers the database and develops the application system.

2.4 Product Functions

OGAS consists of two major components: the application component and the administration component.

A significant feature of both the application component and the administration component is the dynamic and flexible interface for all users. This feature allows changing the content displayed in the browser without altering the structure of the system.

The system validates input data before saving into the database. Validation checks the length, the value, and the format of inputted data according to the requirements of the input. The inputted data which passed validation checks will be saved into the database.

The system pre-evaluates an application by comparing the score of the GRE test with the minimum GRE score

requirement. For international applicants, the system also pre-evaluates their applications by comparing the score of the language test (TOEFL or IELTS) with the minimum score requirement.

To use the system, a login is required for applicants, the GAA, the GAC, and the System Administrator since there is a different interface for each of these users. To login, an account must first be created. Applicants create accounts by providing a valid e-mail address and a password that contain at least 8 characters, including at least one letter and one number. Accounts for the GAA and the GAC are created by the System Administrator. Recommenders are not required to login to use the system because they can open a unique URL to use the system. Each recommender's unique URL is generated by the system at the moment when the application is submitted. Then each URL will be sent automatically via email by the system to the recommender.

Table 3. User Roles and Privileges

User Role	Privileges
Applicant	Save and update information
	before submitting
	Submit an application
	Provide References
	 View submitted letters of
	reference with permissions
Recommender	 Submit/Upload letters of
	reference
	 View his or her submitted
	letters of reference
Graduate Admissions Assistant	 View and update applications
	status
	 View/Print applications and
	letters of reference
Graduate Admissions Assistant	View and update applications
	status
	 View and evaluate
	applications and letters of
	reference
	 Admit applicants into the
	Master's program in CSE
Database Debugai status ten (Demo Lenon	View and update information
Administrator/Developer	for the Graduate Admissions
	Assistant and the Graduate
	Admissions Coordinator
	 view and update Database structure
	- Provide a fill
	 Ensures security of the sustem
	system

2.4.1 Applicant Module

This is the first module in the application component. This module has three major parts: instructions, the application form, and the status check list. Instructions include how to apply to the CSE Master's Program at CSUSB as well as provide links for campus and department admission information.

The application form is the main part where applicants input application data. It has these seven web tabs.

Table 4. Tabs in the Application Form

Web. Tab	Input Field
Biographical	Student ID
Information	 Student Type (Citizen or Foreigner)
	 First Name
	Middle Initial
	Last Name
	Date of Birth
	Gender
	Ethnicity
Contact	Mailing Street Address
Information	City
	■ State
	Country
	Postal Code
	 Primary Phone Number
	Secondary Phone Number
Program	Program Name (default - Computer Science)
Information	 Start Term (includes quarter and year)
Academic	 GPA (based on 4.0 scale)
Information	 List of Schools Attended
	Academic Honors
	Activities
	Publications
Test	• GRE
Information	o Date when GRE was taken
	o GRE Verbal Score
	o GRE Quantitative Score
	o GRE Analytical Writing Score
	• TOEFL (Required for International Students
	Only)
	o Date when the TOEFL was taken
l	o TOEFL Score

	 IELTS (Required for International Students Only) 		
	 The data when the IELTS is taken (Required for international students only) IELTS Second 		
Recommenders	 List of Recommenders Name Email Student indicating to waive the right to view the letter of reference 		
Statement of Purpose	 A brief statement (no more than 400 words) on applicant's reasons for pursuing the M.S. Degrees in Computer Science 		

After a successful login, applicants can start their applications from any of these tabs. At the end of each tab, applicants are allowed to save all inputted information within that tab. Each tab with şaved information will be marked with a check mark to indicate the completion of that part. This feature will allow the applicants to finish the applications in multiple sessions. Then the applicants can continue working on another tab or logout and continue later. Applications with missing required information, such as the list of recommenders and the statement of purpose, will not be allowed to submit. Once an application is submitted, all information within that application cannot be changed. However, applicants can

delete, modify, or add a recommender after submitting an application.

A check list of requirements (online application form, three letters of reference, and official GRE score report) for an application is generated together with processing status (completed or missing). This checklist can be accessed by the applicants who will know what requirements are still missing and need to be satisfied. A check mark in the check list indicates the requirement is completed or satisfied.

2.4.2 Recommender Module

This second module in the application component provides recommenders two major functions. The first function enables recommenders to submit and/or upload their recommendations online. The identification of the related applicants will be automatically generated by the system and displayed on top of the page. The second function allows recommenders to view and print their submitted recommendations.

2.4.3 Coordinator/Assistant Module

The coordinator/assistant module is part of the administration component. The GAC and the GAA will share most functions of this module. The functions shared by the

GAC and GAA and special functions of the GAC are listed in Figure 3.



Figure 3. Functions of the Graduate Application Assistant and the Graduate Application Coordinator An important feature of the coordinator/assistant module is the ability to automatically generate the application form, the letter of reference form, the evaluation form, and the graduate decision form in the same layout as the current paper-based forms. This module also provides the ability to print these forms.

CHAPTER THREE

DATABASE DESIGN AND IMPLEMENTATION

3.1 Design Process

The database provides structured spaces to store both the system information and the application information. A well-designed database ensures effective and efficient data queries. The activities within database analysis and design include:

- Analyzing the requirements for the application component to find all types of inputs needed to be stored in the database.
- Identifying attributes that are required to generate each type of input based on the results of 1.
- 3. Analyzing and deciding the roles that will be involved in completing an application.
- Gathering all information required for each of the roles based on the results of 3.
- 5. Creating the conceptual model based on the results of 2 and 4.

- Creating the relational model based on the result of 5.
- 7. Applying the data normalization rules to the relational model to identify update, insert and delete anomalies.

3.2 Database Table Schemas

There are two types of tables in OGAS - system information tables and application information tables.

System information tables store the information of all input fields and their attributes. This information includes: application form sections, fields in each application form section and their options, fields in the recommendation form and their options, fields in the evaluation form and their options, fields required to create a new account, and the help information. This information is maintained in the following tables: APPLICATION_SECTIONS, APPLICATION_FIELDS, APPLICATION_FIELDS_OPTIONS, TABLES, TABLES_OPTIONS, RECOMMENDATION_FIELDS, RECOMMENDATION_FIELDS_OPTIONS, EVALUATION_FIELDS, EVALUATION_FIELDS_OPTIONS, NEW_ACCOUNT, and HELP_CENTER. All data that is stored in the system

information tables can be accessed by the application module.

The application form is divided into several sections. Each section may have sub-sections recursively. These information are saved in the APPLICATION_SECTIONS table. Each section or sub-section has several input fields where applicants can input corresponding information. These information are saved in the APPLICATION_FIELDS table. Some types of input fields, such as dropdown menu and radio button, have options for applicants to choose. These information are saved in the APPLICATION_FIELDS_OPTIONS table.

Table 5. APPLICATION_SECTIONS Table Schema

The APPLICATION_SECTIONS table stores information about each section in the application form.								
Column	Туре	Optional	Default	Description/Comments				
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current section				
name	varchar(100)	No		Title of this current section				
parent	int(11)	No	-1	ID of the upper level section of this current section				
content	varchar(500)	No		Instruction for filling fields in this current section				
class	varchar(20)	No		Data types and features of current input field (textInput, required, etc.)				
The APPLICATION_FIELDS table stores information about all input fields and their attributes in each section of the application form.								
--	--------------	----------	---------	--	--	--	--	--
Column	Туре	Optional	Default	Description/Comments				
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current field				
section	int(11)	No		The ID of the section for this input field				
name	varchar(50)	No		Title of this input field				
type	varchar(20)	No		Type of this current input field (text, password, select, textarea, table, etc.)				
class	varchar(300)	No		Data types and features of current input field (textInput, required, etc.)				
hint	varchar(300)	No		Instruction and requirements for filling current field				

Table 6. APPLICATION_FIELDS Table Schema

Table 7. APPLICATION_FIELDS_OPTIONS Table Schema

The APPLICATION_FIELDS_OPTIONS table stores information of the options for each input field.							
Column	Туре	Optional	Default	Description/Comments			
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current option			
code	varchar(20)	No		Distinct string of character that represents the value of current option (Each code is unique among all tables in the database.)			
name	varchar(100)	No		Display value of current option			
parent	varchar(20)	No		The ID of the input filed option			

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The TABLES table stores information of all input fields that display in a table.							
Column	Туре	Optional	Default	Description/Comments			
id	int(11)	No		Distinct ID that identifies this current field			
parent	int(11)	No		The ID of the input field which current input field belongs to			
name	varchar(20)	No		Title of the input field			
type	varchar(20)	No .		Type of this current input field (text, password, select, textarea, table, etc.)			
class	varchar(300)	No		Data types and features of current input field (textInput, required, etc.)			
hint	varchar(300)	No		Instruction for filling this current field			

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Table 8. TABLES Table Schema

Table 9. TABLES_OPTIONS Table Schema

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The TABLES_OPTIONS table stores information of the options for each input field that will be displayed in a table.								
Column	Туре	Optional	Default	Description/Comments				
id	int(11)	No		Distinct ID that identifies this current field option				
code	varchar(20)	No		Distinct string of character that represents the value of current option (Each code is unique among all tables in the database.)				
name	varchar(75)	No		Display value of current option				
parent	int(11)	No		The ID of the input filed which current input field option belongs to				

Table	10.	RECOMMENDATION	FIELDS	Table	Schema
		-	-		

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The RECOMMENDATION_FIELDS table stores information about all input fields and their attributes in each section of the letter of reference form.							
Column	Туре	Optional	Default	Description/Comments			
id	int(11)	No		Distinct ID that identifies this current input field			
section	varchar(20)	No		The ID of the section which current input field belongs to			
name	varchar(70)	No		Title of the input field			
type	varchar(20)	No		Type of this current input field (text, password, select, textarea, table, etc.)			
class	varchar(200)	No		Data types and features of current input field (textInput, required, etc.)			
hint	varchar(100)	No		Instruction for filling this current field			

Table 11. RECOMMENDATION_FIELDS_OPTIONS Table Schema

The RECOMMENDATION_FIELDS_OPTIONS table stores information about options for each input field that will be displayed in a letter of reference.							
Column	Туре	Optional	Default	Description/Comments			
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current option			
code	varchar(20)	No		Distinct string of character that represents the value of current option (Each code is unique among all tables in the database.)			
name	varchar(100)	No		Display value of current option			

The RECOMMENDATION_FIELDS_OPTIONS table stores information about options for each input field that will be displayed in a letter of reference.

Column	Туре	Optional	Default	Description/Comments
parent	int(11)	No		The ID of the input field which has this option

Table 12. EVALUATION_FIELDS Table Schema

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The	EVALUATION	FIELDS	table	stores	information	of	all	input	fields	and
thei	r attribute.	es in e	valuati	on form	n.					

Column	Туре	Optional	Default	Description/Comments
iđ	int(11)	No		Distinct ID that identifies this current input field
name	varchar(70)	No		Title of the input field
type	varchar(20)	No		Type of this current input field (text, password, select, textarea, table, etc.)
class	varchar(200)	No		Data types and features of current input field (textInput, required, etc.)
hint	varchar(100)	No		Instruction for filling this current field

Table 13. EVALUATION_FIELDS_OPTIONS Table Schema

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The EVALUATION_FIELDS_OPTIONS table stores information of the options for each input field that will be displayed in evaluation form.							
Column	olumn Type Optional Default		Default	Description/Comments			
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current option			
code	varchar(20)	No		Distinct string of character that represents the value of current option (Each code is unique among all tables in the database.)			
name	varchar(100)	No		Display value of current option			
parent	int(11)	No		The ID of the input field which has this option			

Table 14. NEW_ACCOUNT Table Schema

The NEW_ACCOUNT table stores information of all input fields required for creating a new account.								
Column	Туре	Optional	Default	Description/Comments				
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current input field				
name	varchar(20)	No		Title of the input field				
type	varchar(20)	No		Type of this current input field (text, password, select, textarea, table, etc.)				
class	varchar(300)	No		Data types and features of current input field (textInput, required, etc.)				
hint	varchar(150)	No		Instruction for filling this current field				

Table 15. HELP CENTER Table Schema

varchar(150) No

No

varchar(20)

content

class

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The HELP_CENTER stores information about each link in the help center section. Help center section includes all links to the pages which have categorized information about possible issues about the application process.					
Column	Туре	Optional	Default	Description/Comments	
id	int(11)	No		Distinct ID (automatically generated by the system) that identifies this current input field	
name	varchar(35)	No		Topic of the link	

Address of the page that

Data types and features of current input field (textInput,

required, etc.)

contains information relevant or related to the current topic

The application process needs to store information
about applicants, educational background, recommenders,
recommendations (values in the letter of reference form or
the name and location information of the uploaded letter of
reference file), evaluation and admission decisions, and
contact information of the GAA and the GAC.

To maintain these data, the following tables are required: APPLICANTS, SCHOOL_ATTENDED, RECOMMENDER, RECOMMENDATION, EVALUATIONS, and STAFF.

Table 16. APPLICANTS Table Schema

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The APPLICANTS table stores the personal information of applicants and their application.				
Column	Туре	Default	Description/Comments	
id	int(11)		Distinct ID (automatically generated by the system) that identifies this current applicant	
password	varchar(256)		A string of characters that represents the password entered by applicant. This will be stored as encrypted password	
salt	varchar(16)		A bit of additional data which is used together with password during the hashing process	
studenttype	varchar(20)		<pre>Indicates if the applicant is a resident ("resident" = yes and "non- resident" = no)</pre>	
firstname	varchar(20)		Applicant first name	
middleinitial	varchar(2)		Applicant middle initial	
lastname	varchar(20)		Applicant last name	
email	varchar(100)		Distinct email address provided by applicant (System checks the format and the existence before saving)	
studentID	varchar(10)		Student Number (Coyote Number) obtained by the applicant after finishing the CSUSB University Online	

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		 Application in CSU Mentor
before dateofbirth	varchar(12)	Date of birth (MM/DD/YYYY)
gender	varchar(6)	 Gender (Female/Male)
ethnicity	varchar(20)	Ethnicity
mailingstreetaddresslinel	varchar(200)	Address Line 1
mailingstreetaddressline2	varchar(100)	Address Line 2
country	varchar(50)	Country
state	varchar(50)	State
city	varchar(50)	City
postalcode	varchar(20)	Postal code
primaryphonenumber	varchar(20)	Primary phone number
secondaryphonenumber	varchar(20)	Secondary phone number
programname	varchar(50)	Name of the program (No default value)
startterm	varchar(20)	The quarter and year to start
GPA	varchar(7)	Grade point average in 4.0 scale
academichonors	varchar(2000)	Academic honors received by the applicant
activities	varchar(2000)	Academic conferences and other events the applicant attended
publications	varchar(2000)	Journal articles, papers, presentations, books authored by the applicant
GREdate	varchar(10)	Date when GRE exam was taken
verbal	varchar(5)	Score for the verbal part of the GRE exam
quantitative	varchar(5)	Score for the quantitative part of the GRE exam

analyticalwriting varchar(5)			Score of analytical writing of the GRE exam
TOEFLdate	varchar(10)		Date when TOEFL was taken
TOEFLSCORE	varchar(5)		Total score for TOEFL exam
IELTSdate	varchar(10)		Date when IELTS was taken
IELTSscore	varchar(5)		Total score for IELTS exam
statementofpurpose	varchar(5000)		A brief statement on applicant's reasons for pursuing the M.S. Degree in Computer Science.
officialGRE	varchar(20)	not received	Indicates if the official GRE score report is received
officialTOEFL	varchar(20)	not received	Indicates if the official TOEFL score report is received
officialIELTS	varchar(20)	not received	Indicates if the official IELTS score report is received
visits int(11)		1	Total number of visits which is used for statistic purpose
lastvisit timestamp		CURRENT_ TIMESTAMP	Date and time of last visit which is used to indicate how long this current applicant has not login
finished	varchar(20)	NULL	A string of IDs of completed sections which is separated by commas
status	int(11)	0	Indicates if the application is submitted ("Not submitted" = 0 and "submitted" = 1)

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active	int(11)	0	Indicates if the account is active ("Active" = 1 and "Not active" = 0)
hash	varchar(32)		A series of random numbers generated by system to validate the email address

In order to improve the security of the system, the password is encrypted before saving into the database. A hash table combined with salt is used to encrypt the password. When a password is entered, the system generates a string of random characters, which is called "salt", and saves it into the database. Then the system hashes this string together with the inputted password to generate the encrypted password and saves the encrypted password to the database. When the applicants log in, the system retrieves the salt and hashes it together with the inputted password. Then the system compares the hashing result with the encrypted password saved in the database. If they match, then the system allows the applicants to successfully login.

Table 17. SCHOOL_ATTENDED Table Schema

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The SCHOOL ATTENDED table stores the education history information entered by the applicant during the online application process.			
Column	Туре	Default	Comments
Id	int(11)		Distinct ID that identifies this education history record
applicant	int(11)		The id of the applicant who has this education history record
schoolname	varchar(200)		Name of the school attended by the applicant
yearfrom	varchar(15)		Year when education was started at the school
Yearto	varchar(15)		Year when degree from the school was earned
GPA	varchar(8)		Grade point average on a 4.0 scale
degreeobtained	varchar(50)		Degree obtain from the school
Action	varchar(30)	delete edit	Functions that can be done on one entry of an education history by applicant

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Table 18. RECOMMENDER Table Schema

The RECOMMENDER table stores the identification of recommenders and status information of the related recommendations.				
Column	Туре	Default	Comments	
applicant	int(11)		ID of the applicant who provided this recommender	
nameofreference	varchar(100)		Name of the recommender	
Email	varchar(100)		Email address of the recommender	
waivetoreview	varchar(5)		Applicant's indication to waive the right to review the recommendation from this recommender (Yes/No)	
Status	varchar(20)	not received	The status which indicates whether this recommendation has been submitted by the recommender	
Action	varchar(30)	delete edit	Functions that can be done on one entry of a recommender by applicant	
Hash	varchar(32)		A series of random numbers that is generated by the system when the application is submitted and used to identify and verify a recommender	

Table 19. RECOMMENDATION Table Schema

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The RECOMMENDAT	FION table stores	informatio	on submitted by the
Column	Туре	Default	Comments
Id	int(11)		Distinct ID that identifies this current record of recommendation
recommender	int(11)		The ID of the recommender who submitted this recommendation
applicant	int(11)		The ID of the applicant for whom this recommendation is submitted
Howlonghaveyou knowntheapplic ant	varchar(20)		Length of the time that the recommender has known the applicant
relationship	varchar(20)		The relationship of the recommender with the applicant
position	varchar(50)		The position of the recommender
institution	varchar(100)		The school, organization, or business where the recommender works
Phone	varchar(20)		Work phone number provided by the recommender
Address	varchar(200)		The address of the institution where the recommender works
nativeintellec tualability	varchar(5)		Rating on the applicant's native intellectual ability. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)
imaginationand probablecreati vity	varchar(5)		Rating on the applicant's imagination and probable creativity. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper

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	,		<pre>25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)</pre>
breadthofgener alknowledge	varchar(5)		Rating on the applicant's breadth of general knowledge. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)
abilityinorale xpression	varchar(5)		Rating on the applicant's ability in oral expression. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)
writingability	varchar(5)		Rating on the applicant's writing ability. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)
Emotionalmatur ity	varchar(5)		Rating on the applicant's native intellectual ability. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)
Promiseasateac her	varchar(5)		Rating on the applicant's emotional maturity. ("Upper 1 to 2%" = 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)
overallrecomme ndationastopro	varchar(5)	1	Rating on the applicant's promise as a professional in the field. ("Upper 1 to 2%"

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miseasaprofess ional			<pre>= 1, "Upper 10% but not upper 1 or 2%" = 2, "Upper 25% but not upper 10%" = 3, "Upper half but not upper 25%" = 4, "Lower half" = 5, "No basis for judgment" = 6)</pre>
Overallrecomme ndation	varchar(10)		Rating on the applicant's overall recommendation.
comments	varchar(8000)		Additional comments on the applicant by the recommender
timestamp	timestamp	CURRENT_ TIMESTAMP	Date and time of most recent update of this record (Indicates when the recommendation is submitted)

Table 20. EVALUATION Table Schema

The EVALUATION table stores information on decision by GAC about the application.

Column	Туре	Default	Comments
studentID	varchar(12)		Student identification number
classification	varchar(50)		Classification of an admission (Classified, Conditionally Classified, Probation Conditional, Probation Unclassified, Deny)
admitterm	varchar(20)		Quarter and Year of when the applicant is admitted to the program
deficiencies	varchar(150)		List of pre-requisite courses that must be satisfied by the student
comments	varchar(2000)	1	Additional remarks by the GAC

Table 21. STAFF Table Schema

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The STAFF table stores information about the GAA or the GAC.						
Column	Туре	Default	Comments			
Id	int(11)		Distinct ID that identifies this current staff member			
firstname	varchar(30)		First name			
middleinitial	varchar(10)		Middle initial			
lastname	varchar(30)		Last name			
Title	varchar(30)		Title of the staff (Professor, Associate Professor, Assistant Professor, etc.)			
position	varchar(80)		Position the staff (Graduate Admissions Assistant / Graduate Admissions Coordinator)			
Email	varchar(100)		Email of the Graduate Admissions Assistant or the Graduate Admissions Coordinator			
Phone	varchar(20)		Phone number of the GAA or the Graduate Admissions Coordinator			
Salt	varchar(32)	3	A string of characters which is used together with password during the hashing process for encryption			
password	varchar(32)		Password entered by the account holder (encrypted by the system)			

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CHAPTER FOUR

APPLICATION SYSTEM IMPLEMENTATION

This chapter explains the system functions for the application component of OGAS. Screen shots will be given to display the layouts, possible inputs, and expected outputs.

4.1 Data Validation

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The data is validated to ensure the quality of the data that will be stored in the database. Validation is basically done by comparing the entered value of an input field with the input requirements associated with the field. An input field may have one or more requirements, each requirement has a corresponding validation function. All validation functions will be executed right after a value is entered in an input field. In this way, the user is alerted immediately about incorrect input and will have to provide the correct input. Thus, process of saving or submitting the data is speeded up. The table below shows all input requirements and the corresponding validation functions for each input field.

Table 22. Input Requirements and Corresponding Validation

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Functions

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Requirements	Validation Function Name	Class of Field
Value of the input field	required()	required
is required.		
Length of the data for	validateMinLength()	validateMinLengt
the input field must be		h
more than x.		
Value of the input field	validateMin()	validateMin
must be bigger than x.		
Length of the value must	validateMaxLength()	validateMaxLengt
be less than x.		h
Value of the input field	validateMax()	<pre>validateMax()</pre>
must be smaller than x.	·	
Value of the input field	validateAlphaNum()	validateAlphaNum
should contain only		
numbers and letters		
(without special		
characters).		
Value of the input field	validateEmail()	validateEmail
should be an email		
address.		
Value of the input field	validateUrl()	validateUrl
should be a valid URL.		
Value of the input field	validateNumber()	validateNumber
should be a number.		
Value of the input field	<pre>validateInteger()</pre>	validateInteger
should be a whole number.		
Value of the input field	validateAlpha()	validateAlpha
should contain only		
letters (without special		
characters or numbers).		
Value of the input field	validateAtLeast()	validateAtLeast
must contain at least one		
numeric and one		
alphabetic character.		
Value of the input field	validatePhrase()	validatePhrase
should contain only		
alphabetic characters,		
numbers, spaces, and the		
following characters:		
<u>, , , , , , , , , , , , , , , , , , , </u>		
Value of the input field	validatePhone()	validaternone
snould be a phone number.		
value of the input field	validateDate()	validateDate
snould be a date		
		walidate Came De
value of the input field	valldateSameAs()	validateSameAs
isnouid match the value of		1

another specified input field.		
Check if the entered email already exists in the database.	<pre>validateEmailExist()</pre>	validateEmailExi st

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4.2 Applicant: Applicant Login

The applicant login section is located on the starting page of the application component of OGAS. Applicants have to login to start new applications or continue their saved applications. A valid email address and a password are required to login.

School of Computer	Scienceyand Engineering
Login Please input your login information below to open your application. Email: Password: Password: Password? Password? Create Account If you are new to our application and do not already have a User Name, please click on the button below to register for a new account. 2 Create an account	 Thank you for your interest in the School of Computer Science and Engineering (CSE) in California State University San Bernardino (CSUSB). CSUSB offers the resources of a highly selective public institution that produces graduates in virtually every field of graduate, professional degree and cartificate programs. We are pleased that you are considering graduate study with us. Once you create your account you will receive a confirmation email. You can work and save your application over several sessions by using your email and password. Once you submit your application, you will not be able to make any changes. Your application will be forwarded for review and processing by our graduate admissions staff. We wish you the best and look forward to reviewing your application. *Note: This is the application for School of CSE in CSUSB. You MUST FIRST complete the online CSUSB application at <u>CSUMENTOR</u>.
	School of Computer Science and Engineering California State University San Bernardino 5500 University Parkway San Bernardino, CA 92407-2397

Figure 4. Application Login Component

4.3 Applicant: Create an Account

Applicants can create their accounts via OGAS. The window for creating an account can be opened by clicking the button "Create an Account" on the welcome page. A valid email address is required to create an account. A link to activate the account will be generated by the system and sent to the applicant via email. The applicant who fails to activate the account will not be able to login into OGAS.

The system checks the existence of the email. If the email already exists in our system, the applicant has to use another email to create the account. The system also checks the password which must contain at least eight characters, including at least one letter and one number. No symbols are allowed to use in the password.

	,	مينون ويتركم والمع مناطق المتركم والمع	• .	- 40.51	
	School of Computer	Science	ind Engi	ncering	
Log	and a second sec	متشربكم والمجراب م	نة ^م ريدي شود		
Pleas belov Ema	Create Your Ac	count with Us			hat
	Login Information			·····	al
Pass	Please enter a personal contain at least 8 char characters are a-z, A-Z, passwords that aren't a	password to access acters, including at la and 0-9. No symbol allowed 123456, all	your application ast one letter an s may be used. H alphas, 11ke, pl@	n in the future. Passwords must id one number The allowed iere are some examples of ces, until, my_app.	e
Forge	Email				for
Crea	Password Verify Password				ол.
lf yo: arid d Mame belon socou				& Submit	
	an ann an the structure and a s			School of Camputer Science California State University S SS00 University Parkway San Bernardino, CA 92407-1	ang Engineering an Bernardino 2397

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Figure 5. Window for Creating an Account

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4.4 Applicant: Password Recovery

Applicants get a system generated password via email if they forgot the original password. The email address that is used to create the account is required for the system to generate a new password.

Once a request to get a new password is sent to the system, the system will check if the submitted email address exists in the system. If the email address exists, the system generates a random password and sends the new password to the email address provided by the applicant. Then the applicant can use the new password to log in the system.

et a new password	
Please input the email you used he email address you provided	to create your account. Your new password will be sent to for us.
Email for your account:	
	🖽 Submit

Figure 6. Window for Password Recovery

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4.5 Applicant: Application Instructions

This page shows applicants the step-by-step procedure to do the online application. Useful links for related information are provided on this page.

Home Application Status	
School of Computer Science Master's Program Application Procedure	
To apply to the computer science master's degree program, you must submit two applications:	
 California State University San Bernandino, and to the School of Computer Science and Engineering at California State University San Bernardino. 	
The following two steps explain the details of this process.	
STEP 1: University Application	
First apply for admission to California State University, San Remantino using CSUMantor. You can do this by clicking <u>here</u>	
You can also find additional information at the CSUSB Admistions Office Web Site.	
Please finish STEP 1 fair before doing STEP 2. Once you finish STEP 1, you will get your student ID which is caeded to finish STEP 2.	
STEP 2: School of Computer Science and Engineering Application	
PART I Fil online application form	
The first step can be completed online and includes your application form, recommendations, statament of purpose, test scores and academic records. Click here to start.	
PART 2: Send your application materials	
The second step is send the following materials to the School of Computer Science and Engineering at California State University San Bernardmo.	
Official GRE stores report INTERNATIONAL STUDENT	
You may be required to submit either TDEFL or IELTS scores by the Gradueate Admissions Office at CSUSS: This test can be waived by completing <u>ACLP/IEP</u> level 6 (language program) and submitting proof of completion.	
Send official CRE score to:-	
School of Computer Science and Engineering California State University San Bemartino 5500 University Parloway San Bemartino, CA 92407-2307	
Send official TOEFL/IELTS acors to:	
Graduate Admissions Office California State University San Bernardino SS09 University Partway San Bernardino, CA 92407-2307	
Questions on the Application Process	
If you have any guestions about the application process, plaase click here.	

Figure 7. Application Instructions

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4.6 Applicant: Ask Questions

This function provides applicants an interface to ask questions about the application process. Once a question is entered, the system will search an 'FAQ' database and list all related topics that might answer the proposed question. If no solution can be found from the related topics, the proposed question will be automatically sent by the system to the GAA. The GAA can answer the question via the admission component of OGAS. Then both the question and answer provided by the GAA will be added and saved in the 'FAQ' database. Therefore the 'FAQ' database can dynamically grow.

Ouestions on the Application Process

If you have any questions about the application process, please click here.

Figure 8. Link of Interface to Ask Questions

4.7 Applicant: Biographical Information

This page is designed to collect biographical information on applicants. The system checks all required input fields. If the value of a required input field is blank, then an error message shows up after the input field. (See Figure 9.)

	Start Star	6 Password 0 Log
Iome Application Statu		Welcome back. Boa Kim
Sinarablest (sformation d		Submission Status:
Contact Information /	Biographical Information	Last Date Accessed:
Program Information 🖌		2013-10-18 14:16:39
Academic Background 🖌	Tou will get your studen; to after applying to the university, it you have not done that yet, please click <u>here</u> to finish it fust.	·
Test Information J	Student ID	Halp Center
Recommendations 🖌	Student Tone	 Navigation Overview Technical Tips FAQ (Frequently Asked)
Statement Of Porpose	Are you a citizen or permanent resident of the U.S.?	Questions)
Previden & Azlanit (C Yes T No	l
	Identification	
	Please use your legal name. Do not use nicknames or abbreviations. International students: Type your name exactly as it appears on your passport.	
	First Name	
	You	
	Middle Initial	
	Last Name	
	Demographic Information	
	An international student is either holding one of the following visas. F1, B1, B2, H4, or L2	
	Date Of Birth	
	01/01/1983	
	Gender	
	Ethnicity	
	Asian, Korean	

Figure 9. Biographical Information Form with Validation

Results

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4.8 Applicant: Contact Information

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This page is designed to collect personal information of applicants. The system checks the values of all required input fields including Mailing Street Address Line 1, City, State, Country, Postal Code, and Primary Phone Number. If the values are blank, an error message shows on top of the page.

<u> </u>	0 M 0 m 3 m - H	essage	 Password 	ð Log
iome Application Status			Welcome back, B	oa Kim
Elographical Information /			Submission State Not Submitted	
Contact Information /	Contact Information	ŀ	Last Date Access	ued i
Program Information 🖌	······································	÷	2013-10-18 14:1	0137
Academic Background 🗸				
Test Information /	Current Address	ł	Help Center	
Recommendations J	For addresses outside of the United States, please use all available space or both street address bios and the city line to include the	ł	 Navigation Ov Technical Tion 	erview
Statement Of Parpose	province, territory and postal code.	1	FAQ (Frequen Questions)	tly Asiced
	Mailing Street Address Line 1			
Provative distance and			-	
	maning street address Line 2	,		
		ł		
	City	i		
	aan bernardino	i		
	State	i		
	C3	1		
	Country	ł		
	United States	ł		
	Teleshore			
		1		
	Primary Phone Number			
	00000000			
	Secondary Phone Number	t		
	41 Save			

Figure 10. Contact Information Form

4.9 Applicant: Program Information

This page is designed to collect what term and year the applicant intends to start the degree.

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Home Application Statu		Welcome back: Boa Kim
Biographical Information J Contact Information J Program Information J	Program Information	Submission Statusı Not Submitted Last Date Accessed: 2013-10-18 14:16:39
Academic Background / Test Information /	Program Of Study	Heip Center
Recommendations J Statement Of Purpose	Program Name Computer Science	 Navigation Overview Technical Tips FAQ (Frequently Asked Questions)
Preview & Sultrent	Start Term Summer 2014	j
	el Save	

Figure 11. Program Information Form

4.10 Applicant: Academic Background

This page is designed to collect academic background information of applicants. The CSUSB GPA Calculator is a simple tool that can be used to calculate the numeric grade of a CSUSB course by providing the number of units and the letter grade of that course. Thus, it can convert GPAs not on a 4.0 scale to 4.0 scale.

Home Application Status		Welcome back Boa Km
Elographical Information J Contact Information J	Academic Background	Submission Status: Nat Submitted Last Date Accessed: 2012 - 10-10 - 10-10-10
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Test information -	Collegies And Universities Attended Place Bit dicologies and universities you have attended in thromologicu orgen, begrunning with the first cacego or university you attended Make sure to exclude your current natitution and any ESL studies (if applicable)	Help Center • Kangster Overview • Technesi Typ • F40 (Freshendy Asked
Statement Of Aurpoise	School New	Qu'estora)
	General Academic Information We report CPA (profe pont presset on a 4 0 sche. The top grade is an A, which equals 4.0 CSUSB CPA Caculator	
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	Pi Save i	
	· · · · · · · · · · · · · · · · · · ·	

Figure 12. Academic Background Information Form

All schools can be entered by clicking "plus" icon at the right bottom of the 'Colleges and Universities Attended' box. (See Figure 13.)

School Name	Year From	Year.	GPĂ	Degree Optained	Actions
Riverside Community College	2009	2012	3.2	BS	C #
איז		ساسی و تا محمد تا او آر او گرد	^w P	lus" icon 🛁	- 0

Figure 13. "Plus" Icon for Adding a School

Add a new so	hoolattended
School Name	
Year From	
Year To	
CPA	
Degree Obtain	ed i
	. 🗃 Submit

Figure 14. Add a New School Attended

The window to edit the information of a saved record of an attended school can be opened by clicking the "Folder" icon. (See Figure 15.)

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School Name	Year From	Year Tô	GPA	Degree Obtained	Actions
' Riverside Community College	2009	2012	3.2	BS	
			1.97	ol/der//sacon	O

Figure 15. "Folder" Icon for Editing a School

Edit your record	ал ч в 20 Во от Авана алима	
School Name	Riverside Commu	nity College
Year From	2009	
Year To	2012	:
GPA	3.2	р 19 ферен алустын талаа ал а ^р
Degree Obtained	BS	
		Suppli

Figure 16. Edit a Saved School Attended

A record of an attended school can be removed by clicking the "Trash can" icon. (See Figure 17.)

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School Name	Yean Trom 4	Yean BO	.cpa	Degree Obtained	Actions
Riverside Community College	2009	2012	3.2	BS	
	¥ .		i dini Profesionale Profesionale		\cdot

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Figure 17. "Trash" Icon for Deleting a School

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4.11 Applicant: Test Information

This page is designed to collect information on GRE, TOEFL, and IELTS.

- - J.,

Students who got their undergraduate degrees from CSUSB will be presented the screen shown in Figure 18. Figure 19 depicts the screen displayed for international students who did not get their undergraduate degrees from CSUSB.

Elographical Information 🗸				
Contact information -	Test Information			
Program Information I	ig di, a, π. παστ. ar			
Academic Background &	Undergraduate Degree			
Test Information I	Da yaw kalda Bachelor's degree from an English spicaking Mittilation?			
Recommendations 🖌	™ ves			
Statemat Of Parmets of	0 10			
	Did ynu get ynwr undergraduate deyres from (SUSBI			
Preview & Subnut	40 yes			
ala sanayan na kanang na sanayan kanang sanayan sanayan sanayan sanayan sanayan sanayan sanayan sanayan sanaya	·* 120			
	Graduate Record Examination (GRE)			
	We accept GRE scores taken within the last three years only			
	If you have not taken CRE yet, leave the fields which. You can must us			
	your official CRE sears later. The institutional code for CSUSE is 4099.			
	4 Please send an official copy of the CRE test scores to the School of Computer Science & Engineering, Address is given on the bottom of this page.			
	CRE Date			
	67/10/2013			
	G7/10/2013			
	67/10/2013			
	C7/10/2013			
	67/10/2013 Webat Verbat 132 Guanization			
	67/10/2013			
	67/10/2013			
	07/10/2013			
	07/10/2013			

Figure 18. Test Information Form for Resident Students

41-

Biographical Information /	
Contact Information J	Tart Information
Theorem lofocation of	
Android Background	Undergraduate Degree
WC4Demic C4Ceğiodind 4	Do you hold a Bochelor's degree from an English speaking institution?
Test information J	O vas
Recommentations J	© no
Statement Of Purpose 4	
ann maar al ar gandala mar ann an a' anna a' anna a' anna a' anna a' anna a' anna a' a' a' a' a' a' a' a' a' a	Graduate Record Examination (GRE)
	We accept CRE scores taken within the last times years only
	If you have not taken GRE yet leave the helds Draw. You can mail us your official GRE scores fater. The institutional code for CSUSB is 4099
	: Flease send an official copy of the GRE Lest scores to the School of Computer Scionce & Engineering, Address is given on the bottom of this page.
	CRE Date
	07/10/2013
	Vérbai
	132
	Ovantitative
	170
	Analytical Writing
	3.5
	hand marma in the destinant of the second seco
	English Requirement
	TOEFL or FLITS is required for international students only. This requirement can be waived by completing ACLP/EP level 6 fanquage programs and submitting proof of completion
	Test Of English As A Foreign Language (TOEEL)
· ·	We accept TOEFL scores taken within the last rive years only. You only need to respect a Total Score.
	TOEFL Date
	11/12/2012
	TØEFL Score 91
	TOEFL Test Type
	Please select TOEFL Test T
	International English Länglagie ใช้รับกฎ ใช้รับว่า ได้รับไป
	We accept 6.0 pand acore taken within tast two years only. IFLTS is NOT required if you have a satisfactory TOEFL score
	IELTS Date
	L.
	HELTS Score
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Figure 19. Test Information Form for International Students

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4.12 Applicant: Recommendations

This page is designed to collect information about recommenders provided by applicants.

Recommenders can be added by clicking the "Plus" icon at the bottom of the recommenders table. (See Figure 20.)



Figure 20. "Plus" Icon for Adding a Recommender

This brings up the 'Add a New Recommender' window shown in Figure 21. Enter a recommender by entering the name, email, waive to review in the appropriate fields.

Applicatio	Control of the second se Second second se	re back. Boal
graphical informa	Add a new recommender	ssion Status: Jomitted
tact information graw information	Name Of Reference	ste Accessed: 10-25 23:31;
demic Backgrour	Email	
t Information 🖌	Waive To Review	yster 1
ommendations y tement Of Purpos	Waiver of access to statements of recommendation is optional. I understand that letters and statements of recommendation concerning me are to be received and maintained by CSUSB, School of Computer Science and Engineering, and I hereby expressly and voluntarily waive any and all access rights 1 might have to such recommendations under the Federal Fomily Rights and Privacy Act, the California Information Act, or the laws, regulations, or policies. O I do waive my right to review this letter of reference. O I do not waive my right to review this letter of reference	igation Overvi hntcal Tips } (Frequently A stions)
	er Submit	
		Science and E ersity San Ber way 92407-2397

Figure 21. Add a New Recommender

4.13 Applicant: Statement of Purpose

This page is for applicants to write a brief statement on their reasons for pursuing the M.S. Degree in Computer Science.

ome Application State	المعاد مامد من المن المن المن المن المن المن المن ا	Welcome Dack, Boa Kim
Biographical Information J		Submission Status: Not Submitted
Contact Information 2	Statement Of Purpose	Last Date Accessed: 2013-10-10 14:16:39
Program Information J	Write a brief statement (no more than 400 words) on your reasons for	eroprosenti lati line il 10 milio
Academic Background 🖌	pursuing the M.S. Degree in Computer Science. Include any additional information concerning your preparation pertinent to the	
Test Information ✓	M S. Degree.	Help Center
Recommendations -	Statement Of Purpose	 Navigation Overview Technical Tips FAO (Frequently Asked)
Statement Of Purpose		Questions)
Proview & Submit	}	an and a second se
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	4	
	R Save	

Figure 22. Form of Statement of Purpose

4.14 Applicant: Save and Submit

At the bottom of each tab, a "Save" button is provided for saving inputted data of all required fields within that tab. A successful save occurs only if all required data are able to pass the validation checks. A system notification of the result of save will be displayed on top of the form. (See Figure 23).

Biographical Information 🗸	✓ Your updates have been applied.
Contact Information 🖌	
Program Information 🖌	Recommendations
Academic Background 🖌	มากระที่สารสารการการการสารการการกับสารกรุ่มสารกรุ่มสารกรุ่มสารกรุ่มสารกรุ่มสารกรุ่มสารกรุ่มสารกรุ่มสารสารกรุ่มส
Test Information 🖌	
Recommendations 🖌	Recommenders
Statement Of Purpose	Please list up to 3 recommenders, who will submit letters of recommendation on your behalf. Recommendations should be provided from employers, supervisors, professors, or others who are able to comment on your professional and educational goals and
Presiew & Submit	potential.
	Name Of Emailed Waive To Statust Actions Reference To The Review Statust Actions
	Dr. Smith Li.you.id@gmail.com Yes Received 🖙 🗑
	a Save

Figure 23. System Notification for a Successful Save

If a save fails, the input fields that failed the validation checks will be highlighted as errors. (See Figure 24.) This happens to all tabs in the application form.



Figure 24. System Notification for a Failed Save

Once all required information in each section is successfully saved, applicants can preview and submit their application by clicking the "Preview & Submit" button below the tab box. (See Figure 25.)



Figure 25. Preview and Submit Button

All saved information is shown in Figure 26. If there is an incorrect information entered, the applicant can click the "Resume my application" button at the bottom of the page to correct the errors. Otherwise, the applicant can click the "Submit my application" to submit the application.

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Biographical Inform	ation	مندر و بر د دوم و بر مداود است.		k na si wa na shi natina	Submission Status: Not Submitted
itudent ID : 003638010					Last Date Accessed: 2013-10-22 01:47:53
tre you a citizen or perma	nent resident of the U.S	5.7 No			
first Name: <i>600</i> Middle Initial:				1	1.0 19.0 10 Per
ast Name: Kim					Help Center
Date Of Birth: 01/01/1983 Gender: Male					Navigation Overview Technical Tion
Ethnicity: Asian: Korean				ł	FAQ (Frequently Aske Questions)
Contact Information	1				
Mailing Street Address Lin	e 1: 111 FSC			,	
Mailing Street Address Lin	e 2:			;	
Stale: Ca				ı	
Country: United States					
Postal Code: <i>92407</i> Primary Phone Number: 904	1000000			4	
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Program Name: Computer Si Start Term: Spring 2014	sience				
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Recommendations				ł	
	n a anteres a			·	
Dr. Smith	Li.you.id#gmail.com	Yes	Not Rec	eived	
Statement Of Purpo	xe				
Statement Of Purpose ;					
				· ·	
My name is Leo.				,	

Figure 26. Preview and Submit an Application

4.15 Applicant: Print Application Form

Applicants can print out the application form after submitting. The form will be generated automatically by the system in the same layout as the current paper-based application form.

Note: In addition to submitting this application, you must also inply for admission to the University. For which term and year are you applying for admission? Full Winter Spring. (Circle one) Year W14. Natre: Leo Ler Address: 134 main streer #123		n Compute ate Univers	r Scienc ity San I	e Degre Bernaro	e Program lino	
For which term and year are you applying for admission? Fail Winter Spring. (Circle one) Year	Note: In addition to submitting this application	n, you musi ale	o apply for	admission	n to the University.	
Vear	For which term and year are you applying for	ndrrission?	Fell Wint	er Sprin	g (Circle oue)	
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sean hermansking, ratifiarning 02407 USA Primary Phone:	#121					
USA Primary Phone: 909/224367 Secondary Phone:	san hernantina, catijamia 92407					· •
Primary Phone: 00/1214367 Secondary Phone: Entank Nyminbilingmail.com Are you a citizen or permanent resident of the U.S.? Yrea Schools Anemded From To GRA torres, if abready taken: 2007 3.3 Example: N/A Quantitative: N/A GRE scores, if abready taken: Esam Date: N/A Analytical: N/A Send a copy of GRE test scores to the School of Comparer Science and Englacering. TOEF4. Score (required for international students): N/A Date Takers N/A IBL TS Score (required for international students): N/A Date Takers N/A . Support: Date Takers N/A Date Takers N/A . . Support: Date Takers N/A Date: . . .	USA CONTRACTOR					
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Exate Date: <u>NA</u> Vertel: <u>AA</u> Quantitative: <u>NA</u> Analytical; <u>AA</u> Send a copy of GRE train scores to the School of Comparer Science and Englacering. TOEFI. Score (required for international students): <u>NA</u> Date Taken: <u>NA</u> IELTS Score (required for international students): <u>NA</u> Date Taken: <u>NA</u> IELTS Score (required for international students): <u>NA</u> Date Taken: <u>NA</u> IELTS Score (required for international students): <u>NA</u> Date Taken: <u>NA</u> IELTS Score (required for international students): <u>NA</u> Date Taken: <u>NA</u> IELTS Score (required for international students): <u>NA</u> Date Taken: <u>NA</u>	GRE scores, if strendy taken:	0			A Indualis Afra	eive
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					Duty;	
	Siputen:					R
	Riputen:					

Figure 27. Application Form Generated by System

4.16 Applicant: Status Check

Once applicants have submitted their applications online, they can find out the status on whether the application form has been completed, whether GRE official score has been received and whether the recommenders have submitted their reference letters. A completed item will be marked with a check mark.

ome Application	Status Commenter				Welcome back, Leo L	.ee
Application Che	eck List		100001700 101 7 00		Submission Status: Submitted	
Online applicati	ion torm 🖌				Last Date Accessed: 2013-10-22 01:46:	53
	ndation lartors					
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You Li David Dr. Jason	Li.you.ldPgmail.com	Yes	Received Not Received	46	• FAQ (Frequently A Questions)	sked
You Li Dovid Dr. Jason	Li.you.ld?gmail.com Li.you.ld?gmail.com Youll222?gmail.com	Yes No	Received Not Received	е б е в ,	• FAQ (Frequently A Questions)	sked

Figure 28. Application Checklist Status

Applicants can contact their recommenders via email by clicking the "Mail" icon on the Action column to follow up on the recommendation letter. Applicants can modify their recommenders' information by clicking the "Folder" icon on the Action column. Applicants can also delete a recommender by clicking the "Trash" icon on the Action column. (See Figure 29.)

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Name Of Referenc	e	A	ctions .
You Li	Li.you.id@gma	Send email to this recommender	.
David	Li.you.id@gma	Edit this recommender's information	-963
Dr. Jason	Youli222@gma	Delete this recommender	-
for the second se			e o

Figure 29. Icons on the Action Column

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The 'Contact' window is shown in Figure 30. The contact information (name and email address) of the recommender is generated automatically by the system from the input information given by the applicant. Applicants can enter the Subject and Message in the appropriate fields.

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Figure 30. Contact a Recommender

The 'Edit your record' window in Figure 31 shows where the applicants can change the name, email, waive to review option.

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	Edit your record		ssion
hn Ch	*	· ·	itted
	Name Of Reference	david	10-25
аррис		· .	
	Emaíl	li.you.id@gmail.com) -
ecomm	Waive To Review		Inter
or Refe	Waiver of access to st	tatements of recommendation is ovtional.	
. 1	i understand that lett	ers and statements of recommendation concerning me are to be	Igatio
	received and maintan hereby expressly and	voluntarily waive any and all access rights I might have to such) (Free
	recommendations und	ler the Federal Family Rights and Privacy Act, the California	istions
on	Information Act, or th	e laws, regulations, or policies.	
	I do waive my right	nt to review this letter of reference.	
CPE	C I do not waive my	right to review this letter of reference	1
GIVE 21			
		B Submit	
1			Sciend
			tway
,			92407

Figure 31. Edit a Record of Recommender

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4.17 Applicant: Recommendation Review

If the applicant did not waive the right to view a recommendation letter, then the applicant can view and print this letter of reference. The form will be generated by the system and displayed in the same layout as the current paper-based letter of reference form.

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Figure 32. View and Print Letter of Reference

4.18 Applicant: Help Center

The Help Center is designed to provide applicants assistance in completing an application. Sections of the Help Center include: the Navigation Overview, the Technical Tips, and the FAQ (Frequently Asked Questions).



Figure 33. Navigation Overview and Help Center

4.19 Recommender: Online Letter of Reference

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Recommenders can click the link in the notification email sent from OGAS system to start submitting a recommendation.

4

Dear Dr. John Smith,	
Leo Lee has applied Master's Program in CSE at CSUSB and has liste	id you as reference. Please provide us your recommendation for Leo Lee.
To the <u>Recommender</u> : Persons who have applied for admissions to CS inspect and review letters and statements of recommendations to which	IUSB, whether or not they have been accepted for admission and enrolled therein, shall be permitted to I they have not walved their right of access (see above student waiver of access).
Please click the link below to start you recommendation:	•
cse cause com/apolication/recommendation.php?id=2&hash=8757150	Hecbd890015442ca3db4d0e0e
Thank youl Montea Latimen School of Computer Science and Engineering CSU. San Bernardino 5500 University Parkway San Bernardino, CA 92407 Tel <u>909.537,5326</u> Fax <u>909.537,7004</u>	Link to start the recommendation

Figure 34. Notification Email to Recommenders

Information about the applicant will be automatically filled in by the system and displayed on top of the page.



Figure 35. Application Information Section on Letter of

Reference

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			nformation			÷r :
To the Recommender: Person accepted for admission and e of recommendations to which the	ns who h nrolled t ey have	ave applied for adi therein, shall be pe not waived their r	missions to CSUSE rmitted to inspec ight of access (se	i, whether or not t and review lett e above student	they hi ers and waiver	ave been statement of access)
Name of Reference: <u>You Li</u>		E	mailı <u>li,you.id@qn</u>	ail.com		
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Writing Ability	0	0	0	0	0	0
Emotional Maturity	0	Ú Ú	0	0	0	0
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comments -	- `		· · · · · · · · · · · · · · · · · · ·	-		• - · -
Choose File, No life chosen	 (Upload a document	t for additional let	ter of reference		

e Submit |

Figure 36. Online Letter of Reference

4.20 Recommender: Print Letter of Reference Recommenders can view and print a submitted letter of reference on the same page where they submitted that recommendation.

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	School of Computer S	ciènce) and En	gine		
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	Schor Calif S500 Univer To the Applicant: Please complete inf educaronal/Portess	ol of Computer Science and En formia State University, San Be sity Parkway, San Bernardino, formation requested below and give t ional background and abilities (Pleas	gineering mardino CA 92407 his form to a e type).	-2397 person familiar with your	
	Name of Applicant: Lee, Leo, J (Last, First, MI)				
	Address: 1234 Main Sovet #123, San Bernardino,	. California, 92407, USA	Phone 9091,	n 134567	
	Choose one: I do not write any right 6 I do write any right to re Waiver of access to statements of recommen- me are to be received and maintained by CSL write any and all access rights I only to knew information Act, as the laws, regulations, or p	o review this feiter of reference: when this letter of reference: dation is optional. I understand that letter 358, School of Computer Science and Ex to such recommendations under the Fede pullicies.	X and statement gineering, and ral Fanaily Rig	ts of recommendation concerning I hereby expressly and voluntarily its and Privacy Act, the California	
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Figure 37. View and Print Letter of Reference

CHAPTER FIVE

ADMINISTRATION SYSTEM IMPLEMENTATION

This chapter explains the system functions of the administration component of OGAS. Screen shots will be given to display the layouts, possible inputs, and expected outputs.

5.1 User Login

This page is the starting page of the administration component. The GAC and the GAA will be required to enter their work email address and a valid password to log into the system.

School of Computer Science, CSUSB Online Graduate Application Administration System								
Login Plase input your lagin information bolow ta open your application. Email:								
- Paseword:								
Forgot Password?								

Figure 38. User Login Interface for Administration System

5.2 Coordinator/Assistant: Message Box

This set of functions allows the GAA and the GAC to receive and send messages and emails. The messages sent to the GAA or the GAC via OGAS are shown in the 'inbox'. Similarly, the messages sent from the GAA or the GAC via OGAS are shown in 'outbox'. The Contact List saves the contact information of all staff who are involved in the campus and department application process.

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Contact List	* Due Kim - Minimum 101.13		n an	2012-11-17/31/3
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Figure 39. Message Box Interface

5.3 Coordinator/Assistant: Search Applicants

This set of functions allows the GAA and the GAC to look up applicants by first name, last name, email address, or phone number. Three buttons for quick search are provided on the left side: Unsubmitted Application, Submitted Application, and All application. Clicking "Unsubmitted Application" shows all applicants who have started their application but have not submitted. Clicking "Submitted Application" shows all applicants who have submitted their applications. Clicking "All Applicants" shows all applicants who have successfully created accounts on OGAS.

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Home Applicants Evalua	L Password C Logoria
Unsubmitted Application Submitted Application All Application	Search Applicants
Legend A - Ricewed 7 - Not received 0 - Not recuared <i>B</i> - View application <u>0</u> - Prot oppication	First LL Loc Resident Start Approximation Recording Recording Official Enguide rooters Activity Public Mume No Price Discrition Price Price Discrition Price Price Activity Activity Recorded Price Price
	School of Computer Science and Engineering Childriie State University San Bernerdina SSOO University Parkmay San Bernardino, CA 92407-2397

Figure 40. Interface of Searching Applicants

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5.4 Coordinator/Assistant: Track Process Status

The most current status of each item required for an application (Online Application, Three Recommendations, Office GRE score report, Official TOEFL/IELTS score report) is displayed using an appropriate icon. The "Question" icon on a column means that the document (indicated as the title of the column) has not been received. The "House" icon on a column means that document has been received. The "Prohibition" icon on a column means that document is not required for this applicant.

First Name	M.I. Last Name	Resident	Start Term	Application Received	Recommendation Received	Official GRE scores Received	Official Language scores Received	Actions
Воа	Kim.	No	SP14		? Dr. Smith ្ ្		TOEFL C	CO
: Leo	J Lee	Yes	W14,		? You Li 🤊 🥑	à		රය ම

Figure 41. List of Applicants with Status of Each Task

If a user hovers on the icon, the meaning of the icon will be displayed.

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First M.I. Last R Name Name	esident Start Term	Application Received	Recommendation Received	Official GRE scores Received	Official Language scores Received	Actions
Boa	NO SP14	o 14 0		9. A		00
Leo J. Leo	Yes W14	1000 COMA 1000 COMA 1000 COMA	? You Li ∞ ⊗ n y David (m) ? Dr. Jason ⊚			90 90
<u>1977 - 1979 - 1977</u>	<u></u>	<u>11</u> _2(14) ジオ・(27 ⁰⁰ 00 Augustation (279)		ontact Recommender	 Control and the second sec second second sec	

Figure 42. Icon Tip

The meaning of each icon is provided in Figure 43.



Figure 43. Legend of Status Icon

5.5 Coordinator/Assistant: Update Status

The GAA and the GAC can change the "Not received" required document to "Received" status by clicking the "Question" icon. A message box will pop out to confirm the change.

Have you receiv	ved "Official GRE Score"	already? Cancel	essage box to confirm	
Application Received	Recommendation Received	Official GRE scores Received	Official Language scores Received	Actions
	? Smith ⊙:		10931 - 22 1256 - 8	e jo G
	?			0

Figure 44. System Confirmation Message for Updating Status

5.6 Coordinator/Assistant: Contact Recommenders

Those recommenders who did not submit the letter of reference will be highlighted with red background. (See Figure 45.)



Figure 45. Highlighted Recommenders

The function to contact those recommenders who failed to submit recommendations is available in OGAS. This function can be invoked by clicking the "Envelop" icon which is located at the right side of the highlighted recommender. (See Figure 45.)

In the 'contact a recommender' window (See Figure 46), the GAA or the GAC can send emails to the recommenders. When the "Send" button is clicked, the system reads the values of the subject and the message. The system queries the contact information of the GAA or GAC saved in the database and combines it together with the content of the

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subject and the message. Then the system sends the combined information to the recommender automatically.

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To:	.Smith (li.you.id@gm	ail.com)			
Subject:			<u> </u>	}	
and also also also also also also also also	and an				
		•			
1 1 2					

Figure 46. Interface to Contact a Recommender

5.7 Coordinator/Assistant: Print Letters of Reference and Application Form

This set of functions allows the GAA and the GAC to print submitted letter of reference forms and submitted application forms. (See Figure 47.)

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Figure 47. Icons to Print Letters of Reference and Application Form

Both forms will be automatically generated in the same layout as the current paper-based forms.

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¥ Unsu ⊀ Subm	To the Applicant: Flore complete inte educational/profess	formation requests tional background	al below and and abilities	give this fan (Please type)	u to a perso	m familiar wit	h your	1			
All A	Name of Applicant: Lee, Leo, J (Last, First, MI)		·					1			
Legend	Address: 1234 Main Street #123. San Bernardino.	. Colifornia, 9240	t, USA	-	Phose; 909/2345/	67				и С	
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Figure 48. Print a Letter of Reference

Tiome Applicant Unsubmitted A Submitted App T All Application	Applic the Master of Science at California St Note: In addition to submitting this application	ation for A n Comput ate Univer	dmission er Science sity San 1 lso apply for	to e Degro Bernario odmission	e Program dino n to the University.	
Lègend A. Rocmassi 7 · Mot recenyres 8 · Not requires P. Int appleal	For which term and year are you applying for Name: <u>Lea Lee</u> Address: <u>1234 main street</u> <u>#123</u> <u>san bernardino, california 92407</u> <u>USA</u> Primacy Phone: <u>9091234167</u> Email: <u>ILywuid@gemail.com</u> Are you a eitizen or permanent resident of the	Se	Fail What Year <u>W1</u> - - - - condary Pho	er Sprib 1 <u>4</u> ne:	g (Circle one)	
	Schools Attended	From		OPA	Degree Obtained/Expected	An and a second s
	Cal State San Bernardina	2009	2013	3.71	MS	
		1 10013	1001	22	20	

Figure 49. Print an Application Form

5.8 Coordinator: Evaluation

This function is available to the GAC only. It allows the GAC to evaluate an application and the related recommendations. Five quick search buttons are provided on the left side: Admit Classified, Conditionally Classified, Probation Conditional, Probation Unclassified, and Deny. These buttons will indicate the admit decision made by the GAC

يريد ، المحد		· · · · · · · · · · · · · · · · · · ·
Admit Classified	ι.	Search Applicants
D Conditionally Classified		· · · · · · · · · · · · · · · · · · ·
Probation Conditional		Search
n Probation Unclassified	•	
n Deny		
		Student ID First Rame M.L. Last Rame Start Term Decision Rolfication Actions
egend	1	
O Qualified		
Not qualified		
e higt required	+	
🖷 - Open Evukasion Ferr		
 Print Evaluation Form 		

Figure 50. Interface to Evaluate Each Document

5.9 Coordinator: Admit Decision

This set of function is available to the GAC only. It allows the GAC to submit admission decision, generate graduate decision form, and send admission decision letter. The window for submitting admission decision can be opened by clicking the "Note" icon on the Action column. (See Figure 51.)

Student ID	First Name	Last Name	Start Term	Decision		-	Actions
003638010	Leo	Lee	Spring 2014	Conditionally Classified	"Note"	Icon	

Figure 51. "Note" Icon to Open the Admission Evaluation Form

The Student Id input field in the Admission Evaluation Form is automatically filled by the system.

Ol I then then				
Graduate Classified				
Admit Term				
Winter 2014				
Student ID 003638010				
Remove deficiencies in CSE 201 CSE 202 CSE 330 C CSE 310 CSE 313 CSE 401 C) MATH 211 C	MATH 212 🖸 M. CSE 460 🖸 NSCI	ATH 272 306	
Additional Deficiencies		·		
		×1		
Comments				
		1		

Figure 52. Interface to Submit Admit Decisions

5.10 Coordinator/Assistant: Statistic Reports

This set of functions provides statistic information by generating corresponding reports.

Course Chart Course Chart	Statistical Report					
	Course Rame	Winter 2014	Spring 2014	Fait 2014		
	C5£201		*			
	CSETTE		100 - 10 - 10 - 10 - 10 - 10 - 10 - 10			
	HATHON		1100	000		
	NATH212	0/30	100 ·····	0/30		
	MATH272	A set of the set of th		0:00		
	CSE311	en al de la companya	r	0/30		
	C56401		٠	0/30		
	<u>64+56</u>	and the second		070		
	C\$2460		1/20			

Figure 53. Interface to View Statistic Report

5.11 Coordinator/Assistant: System Settings

This page provides the GAA and the GAC interfaces to set up the admission requirements (the minimum GRE score requirement, the minimum TOEFL score requirement for each test type, and the minimum IELTS score for 6.0 band), the application deadlines, and the templates of emails and letters.

Home Applicants . Evaluation	Report Soulings
Admission Requirements Application Deadlines Course Management Templates	Admission Requirements Minimum GRE Score (Old) 1000 Minimum GRE Score (New) 100 Minimum TOEFL Score (Internet Based) 70 Minimum TOEFL Score (Computer Based) 213 Minimum TOEFL Score (Paper Based) 550 Minimum IFLTS Score 5.0

Figure 54. Interface to Change System Settings

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CHAPTER SIX

INSTALLATION

6.1 System Requirements

OGAS requires two types of servers: the application server and the database server. The application server runs Apache 2.4.4 as the web server and PHP 5.4.19 as the application engine while the database server runs the MySQL 5.5.32 database system.

6.2 Installation

The installation of OGAS is done in two major steps: the application installation and the database installation.

6.2.1 Application Installation

The following steps must be done to install the application program of OGAS on the application server:

- Copy all the files in the root directory on the CD to the web root directory.
- 2. Open the "database_settings.php" file in the \system directory on the web server.
- 3. Edit the database host name, the database name, the database user name, and the database

93
password in the "database_settings.php" file so it points to the correct database server.

6.2.2 Database Installation

The steps below show the sequence to install and configure the database on the database server.

- Install MySQL database system on the database server.
- Login into the database administration system using the username and password set in the step 1.
- Add a new user and set up the privileges for this user.
- 4. Import the "create_database.sql" file in the root directory on the CD to create tables and import data to the newly created database.

CHAPTER SEVEN

CONCLUSIONS

7.1 Project Accomplishments

OGAS will provide benefits for both applicants and the CSE graduate admission staff. For the applicants, it facilitates submitting and managing an application to the Master's Program in the CSE. For the staff, it will significantly simplify processing an application. The most significant features and advantages are:

- An incomplete application can be saved so applicants can finish their application in multiple sessions.
- The system generates different interfaces for domestic/resident students and international students.
- 3. The status of the application process is accessible online by the applicants.
- 4. If applicants submitted incorrect email address for a recommender, or need to replace a reference that has already been submitted, the

applicants can update these information online at any time.

- 5. A recommender can submit or upload a letter of reference online. A submitted letter of reference can be printed out by the recommender, the CSE graduate admissions staff, and by the applicant if did not waive the right to read.
 - The GAA and the GAC can monitor and update the status of an application.
 - 7. The GAC can evaluate an application and related recommendations and give an admit/deny decision for applicants into the Master's Program in the CSE.
 - 8. A pre-validation mechanism is employed to ensure the quality of input data before being stored in the database. Unlike validating at the time of submitting, the pre-validation functions will check each input value right after the value is entered. This will skip the step to validate each input data at the time of save or submission.

- 9. The system will track incomplete applications and send appropriate notices to the applicant and/or recommenders if further action is required.
- 10. The system will be able to generate all forms in the same layout as the current paper-based forms.

7.2 Future Directions

The Online Graduate Application System was designed based on the idea of a content-free structure which dynamically saves data into as well as loads content from the database. This design will enable OGAS to easily be adapted by other schools or departments. A user interface will need to be configured for the application component of OGAS to comply with the requirements by another school or department. The following are suggestions for future implementations:

 Provide an interface to capture the signature for documents and forms. The signature will be done on a browser window using the mouse and the interface will save the signature image.

- Improve the usability of the system by
 - o interfacing OGAS with the Student Management System maintained by CSUSB using PeopleSoft,
 - o allowing recommenders to be able to replace an previously uploaded file,
 - o combining the recommender's uploaded file with the system-generated letter of recommendation.
- Allow the ability to attach a file to systemgenerated emails.
- Add the ability to search the questions database using phrases (e.g. minimum GRE score) in addition to standard keywords that are currently searchable through the question title.

APPENDIX A

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

MASTERS APPLICATION

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Application for Admission to the Master of Science in Computer Science Degree Program at California State University San Bernardino

Complete and return this form to the following address:

School of Computer Science and Engineering California State University San Bernardino 5500 University Parkway San Bernardino, CA 92407-2397

Note: In addition to submitting this application, you must also apply for admission to the University.

For which term and year are you applying for admission? Fall Winter Spring (Circle one)

Name:_____

Year _____

Mailing Address:

Primary Phone: ______ Secondary Phone: ____ E-Mail Address: _____

Are you a citizen or permanent resident of the U.S.? Yes No (Circle one)

	Years			
Schools Attended	From	To	GPA	Degree Obtained/Expected
		t		
· · · · · · · · · · · · · · · · · · ·		<u> </u>	├ - 	
		1		

GRE scores, if already taken:

		 	A A	
Exam Date:	Verbal:	Ouantilative:	Analytical:	

Send a copy of GRE test scores to the School of Computer Science and Engineering (address given above).

TOEFL Score (required for international students): _____ Date Taken: ____

Signature

Date

Attach a brief statement (no more than 400 words) on your reasons for pursuing the M.S. Degree in Computer Science. Include any additional information concerning your preparation pertinent to the M.S. Degree.

Revision: Asspent 5, 2010 - ral

Name: _____

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Statement of Purpose

Write a brief statement (no more than 400 words) on your reasons for pursuing the M.S. Degree in Computer Science. Include any additional information concerning your preparation pertinent to the M.S. Degree.

Emision: August 5, 2010 - ml

LETTER OF REFERENCE

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. School of Computer Science and Engineering California State University, San Bernardino 5500 University Parkway, San Bernardino, CA 92407-2397

Name of Applicant (Lost, Fina, Mil)	
Address	Phone ()
Choose one: I do not wrive my right to review I do wrive my right to review Waiver of access to sutercents of recommendation concerning me are to be received and traintainon expressly and voluntarily write any and all noce Rights and Privacy Act, the California Information	riew this letter of reference this letter of reference is is optional. I understand that letters and statements of recommendation by CSUSH, School of Computer Science and Engineering, and I hereby strights I night have to such recommendations under the Pederal Family on Act, or the laws, regulations, or policies.

To the Recommender: Persons who have applied for admissions to CSUSD, whether or not they have been accepted for admission and enrolled therein, shall be permitted to inspect and review letters and statements of recommendations to which they have not waived their right of access (see above student waiver of access).

How long have you known t	he Applicant?		
In what relationship?			
Name of Reference:	Position/Institution		Phone ()
Address		E-mail:	
Signature		Date_	

Please rate the applicant in comparison with others of the same age and position whom you have known.

	Upper 1 or 2%	Upper 10% but not upper 1 or 2%	Upper 25% but not upper 10%	Upper haif bat ant upper 25%	Lower half	No basis for judgement
Native Invetermal Ability						
Imagination and Probable Creativity						
Breachh of General Knowledge						
Ability in Oral Expression		[
Writing Ability		<u>↑</u>				
Emotional Minnery						
Promise as a Teacher		1				
Overall recommendation as to promise as a professional in the field						

Overall Recommendation (check one): (use reverse side for comments if necessary)

I recommend the applicant without reservation as an excellent prospect.

I have some reservations, but woold recommand the applicant as a good prospect. I have substantial doubts, but think the applicant should be given a chance to prove him/herself.

I feel the applicant is not suited for the program,

RETURN THIS FORM TO THE ADDRESS AT THE TOP OF THIS REFERENCE LETTER Revision: August 5, 2010 - ml

APPENDIX B

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING APPLICATION EVALUATION FORM

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Admission Evaluation Form M.S. in Computer Science School of Computer Science and Engineering California State University, San Bernardino

Name:			SID#:		Date:	
Address	s:			City:		
State:		Zip Code:		_E-Mail:		
Home P	hone:		Work Phone	e:		
Internat	ional Student [I			CA Resident	[]
1.	Degrees Earned:					
	Degree		Institution		Graduation Date	GPA
					_	· • • • • • • • • • • • • • • • • • • •

2. Letters of Recommendation:

Recommender	Institution	Position	Comment
	·		

3. GRE:

Date: _____ Verbal: _____ Quantitative: _____ Analytical: _____

4. TOEFL: (International Students ONLY)

Date: _____ Score: _____ (Minimum 550/213)

Updated: 2011

5. Statement of Purpose

Excellent:	Very Good:	Good:	Fair:	Poor:
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6. Transfer Courses: (If Any)

Institution	Course Number and Title	Term/Year	
	ţ.		

7. Graduate Committee Decision:

A. Accept as:

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Graduate Clas	sified:		
Graduate Con	ditionally Classified	1:	
Remo	ve deficiencies in:		
	CSE 201:	CSE 202:	CSE 330:
	Math 211:	Math 212:	Math 272:
	GRE:		
	Other:		
	CSE 310:	<u> </u>	CSE 455:
	CSE 313: _	_	CSE 460:
	CSE 401:	.	
	NSci 306:	(Graduate	Entrance Writing Requirement)
	[WREE >=	= 5 .0 GMAT Writi	ng Score]
B. Reject:			
Reason:			
Graduate Coordinator:			Date:
Cpdmed: 2011			

APPENDIX C

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

GRADUATE DECISION FORM

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ю:								
	DILLTON				STUDEN	T NAME		
КA	DUATEP	RUGRAM:			STUDEN	IN22 2"	<u> </u>	
	FALL	WINTER	SPRING	TODAY	Y'S DATE	:		
	_ADMIT	CLASSIFIED	I					
	_ADMIT (Condition	CONDITIONA as to be met for	ALLY CLASSI classified status	FIED ;;				
			•					
DE								
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)rE	PROBAT	MISSION (maj	jor code will be	of the gradu	ate progra	m) NCLASS	IFIED	
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APPENDIX D

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DATABASE CREATION SCRIPTS

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```
SET SQL_MODE="NO_AUTO_VALUE_ON_ZERO";
-- Database: `csega`
CREATE DATABASE IF NOT EXISTS `cseqa` DEFAULT CHARACTER
SET latin1 COLLATE latin1_swedish ci;
USE `csega`;
___
-- Table structure for table `applicants`
___
CREATE TABLE `applicants` (
  'id' int(11) NOT NULL auto increment,
  'password' varchar(256) NOT NULL,
  `salt` varchar(16) NOT NULL,
  `studenttype` varchar(20) NOT NULL,
  `firstname` varchar(20) NOT NULL,
  `middleinitial` varchar(2) NOT NULL,
  `lastname` varchar(20) NOT NULL,
  `email` varchar(100) NOT NULL,
  `studentID` varchar(10) NOT NULL,
  `dateofbirth` varchar(12) NOT NULL,
  `gender` varchar(6) NOT NULL,
  `ethnicity` varchar(20) NOT NULL,
  `mailingstreetaddressline1` varchar(200) NOT NULL,
  `mailingstreetaddressline2` varchar(100) NOT NULL,
  `country` varchar(50) NOT NULL,
  `state` varchar(50) NOT NULL,
  `city` varchar(50) NOT NULL,
  `postalcode` varchar(20) NOT NULL,
  `primaryphonenumber` varchar(20) NOT NULL,
  `secondaryphonenumber` varchar(20) NOT NULL,
  `programname` varchar(50) NOT NULL,
  `startterm` varchar(20) NOT NULL,
  `GPA` varchar(7) NOT NULL,
  `academichonors` varchar(2000) NOT NULL,
```

```
activities` varchar(2000) NOT NULL,
  'publications' varchar(2000) NOT NULL,
  `GREdate` varchar(10) NOT NULL,
  'verbal' varchar(5) NOT NULL,
  `quantitative` varchar(5) NOT NULL,
  `analyticalwriting` varchar(5) NOT NULL,
  `TOEFLdate` varchar(10) NOT NULL,
  `TOEFLscore` varchar(5) NOT NULL,
  `IELTSdate` varchar(10) NOT NULL,
  `IELTSscore` varchar(5) NOT NULL,
  `statementofpurpose` varchar(5000) NOT NULL,
  `transcripts` varchar(20) NOT NULL default 'not
received',
  `officialGRE` varchar(20) NOT NULL default 'not
received',
  `officialTOEFL` varchar(20) NOT NULL default 'not
received',
  `officialIELTS` varchar(20) NOT NULL default 'not
received',
  `visits` int(11) NOT NULL default '1',
  `lastvisit` timestamp NOT NULL default CURRENT TIMESTAMP
on update CURRENT TIMESTAMP,
  `finished` varchar(20) default NULL,
  `status` int(11) NOT NULL default '0',
  `active` int(11) NOT NULL default '0',
  `hash` varchar(32) NOT NULL,
 PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=28 ;
-- Dumping data for table `applicants`
-- Table structure for table `application fields`
_ ---
CREATE TABLE `application fields` (
  'id' int(11) NOT NULL auto increment,
  `section` int(11) NOT NULL,
  `name` varchar(50) NOT NULL,
```

type varchar(20) NOT NULL, `class` varchar(300) NOT NULL, `hint` varchar(300) NOT NULL, PRIMARY KEY (`id`)) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=35 ; ---- Dumping data for table `application fields` ------INSERT INTO `application fields` VALUES(1, 7, 'first name', 'text', 'textInput required', ''); INSERT INTO `application fields` VALUES(2, 7, 'middle initial', 'text', 'textInput', ''); INSERT INTO `application fields` VALUES(3, 7, 'last name', 'text', 'textInput required', ''); INSERT INTO `application fields` VALUES(4, 1, 'student ID ', 'text', 'textInput required validateInteger ', 'Your coyote ID number.'); INSERT INTO `application fields` VALUES(5, 8, 'date of birth', 'text', 'textInput required datepicker', 'MM/DD/YYYY'); INSERT INTO `application fields` VALUES(6, 8, 'gender', 'select', 'required', ''); INSERT INTO `application_fields` VALUES(7, 8, 'ethnicity', 'select', 'required', ''); INSERT INTO `application fields' VALUES(8, 9, 'mailing street address line 1', 'text', 'textInput required', ''); INSERT INTO `application fields` VALUES(9, 9, 'mailing street address line 2', 'text', 'textInput', ''); INSERT INTO `application fields` VALUES(10, 9, 'city', 'text', 'textInput required', ''); INSERT INTO `application fields` VALUES(11, 9, 'state', 'text', 'textInput required', ''); INSERT INTO `application fields` VALUES(12, 9, 'country', 'select', 'required', ''); INSERT INTO `application fields` VALUES(13, 9, 'postal code', 'text', 'textInput required', ''); INSERT INTO `application fields` VALUES(14, 10, 'primary phone number', 'text', 'textInput required validatePhone', 11); INSERT INTO `application fields` VALUES(15, 10, 'secondary phone number', 'text', 'textInput validatePhone', '');

```
INSERT INTO `application fields` VALUES(16, 11, 'program
name', 'info', 'textInput required', 'computer science');
INSERT INTO `application fields` VALUES(17, 11, 'start
term', 'select', 'required', '');
INSERT INTO `application fields` VALUES(18, 14, 'GRE
date', 'text', 'textInput gredate', 'MM/DD/YYYY');
INSERT INTO `application fields` VALUES(19, 14, 'verbal',
'text', 'textInput', '');
INSERT INTO `application fields` VALUES(20, 14,
'quantitative', 'text', 'textInput', '');
INSERT INTO `application fields` VALUES(21, 14,
'analytical writing', 'text', 'textInput', '');
INSERT INTO `application fields` VALUES(22, 15, 'TOEFL
date', 'text', 'textInput toefldate internationalOnly',
'MM/DD/YYYY');
INSERT INTO `application fields` VALUES(23, 15, 'TOEFL
score', 'text', 'textInput internationalOnly', '');
INSERT INTO `application fields` VALUES(24, 16, 'IELTS
date', 'text', 'textInput ieltsdate internationalOnly',
'MM/DD/YYYY');
INSERT INTO `application fields` VALUES(25, 16, 'IELTS
score', 'text', 'textInput internationalOnly', '');
INSERT INTO `application fields` VALUES(26, 12, 'GPA',
'text', 'textInput required', '');
INSERT INTO `application fields` VALUES(27, 12, 'academic
honors', 'textarea', 'ui-corner-all mh80', '');
INSERT INTO `application fields` VALUES(28, 12,
'activities', 'textarea', 'ui-corner-all mh80', '');
INSERT INTO `application_fields` VALUES(29, 13,
'school_attended', 'table', '', '');
INSERT INTO `application fields` VALUES(30, 17,
'recommender', 'table', '', '');
INSERT INTO `application fields` VALUES(31, 18, 'statement
of purpose ', 'textarea', 'required mh500', '');
INSERT INTO `application fields` VALUES(32, 1, 'student
type', 'radio', 'required citizen', 'Are you a citizen or
permanent resident of the U.S.? ');
INSERT INTO `application fields` VALUES(34, 12,
'publications', 'textarea', 'ui-corner-all mh80', '');
```

```
-- Table structure for table `application fields options`
CREATE TABLE `application fields options` (
  'id' int(11) NOT NULL auto increment,
  `code` varchar(20) NOT NULL,
  `name` varchar(100) NOT NULL,
  `parent` varchar(20) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=284
;
-- Dumping data for table `application fields options`
INSERT INTO `application fields options` VALUES(1, 'AIAN',
'American Indian or Alaskan Native', '7');
INSERT INTO `application fields options` VALUES(2, 'B',
'Black (not of Hispanic origin)', '7');
INSERT INTO `application fields options` VALUES(3, 'HMA',
'Hispanic: Mexican-American/Mexican/Chicano', '7');
INSERT INTO `application fields options` VALUES(4, 'HCA',
'Hispanic: Central American', '7');
INSERT INTO `application fields options` VALUES(5, 'HAS',
'Hispanic: South American', '7');
INSERT INTO `application fields options` VALUES(6, 'HPR',
'Hispanic: Puerto Rican', '7');
INSERT INTO `application_fields_options` VALUES(7, 'HC',
'Hispanic: Cuban', '7');
INSERT INTO `application fields options` VALUES(8, 'HO',
'Hispanic: Other', '7');
INSERT INTO `application fields options` VALUES(9, 'ACH',
'Asian: Chinese', '7');
INSERT INTO `application fields options` VALUES(10, 'AJ',
'Asian: Japanese', '7');
INSERT INTO `application fields options` VALUES(11, 'AK',
'Asian: Korean', '7');
INSERT INTO `application_fields_options` VALUES(12, 'AL',
'Asian: Laotian', '7');
INSERT INTO `application fields options` VALUES(13, 'ACA',
'Asian: Cambodian', '7');
INSERT INTO `application fields options` VALUES(14, 'AI',
'Asian: Indian', '7');
```

INSERT INTO `application fields options` VALUES(15, 'ASA', 'Asian: Southeast Asian', '7'); INSERT INTO `application fields options` VALUES(16, 'AT', 'Asian: Thai', '7'); INSERT INTO `application fields options` VALUES(17, 'AV', 'Asian: Vietnamese', '7'); INSERT INTO `application fields options` VALUES(18, 'AO', 'Asian: Other', '7'); INSERT INTO `application_fields_options` VALUES(19, 'PIG', 'Pacific Islanders: Guamanian', '7'); INSERT INTO `application fields options` VALUES(20, 'PIH', 'Pacific Islanders: Hawaiian', '7'); INSERT INTO `application fields options` VALUES(21, 'PIS', 'Pacific Islanders: Samoan', '7'); INSERT INTO `application fields options` VALUES(22, 'PIO', 'Pacific Islanders: Other', '7'); INSERT INTO `application fields options` VALUES(23, 'W', 'White (not of Hispanic origin)', '7'); INSERT INTO `application_fields_options` VALUES(24, 'F', 'Filipino', '7'); INSERT INTO `application fields options` VALUES(25, '0', 'Other', '7'); INSERT INTO `application fields_options` VALUES(26, 'N', 'No response', '7'); INSERT INTO `application fields options` VALUES(27, 'D', 'Decline to state', '7'); INSERT INTO `application fields options` VALUES(28, 'Female', 'Female', '6'); INSERT INTO `application fields options` VALUES(29, 'Male', 'Male', '6'); INSERT INTO `application fields options` VALUES(30, 'F13', 'Fall 2013', '17'); INSERT INTO `application fields options` VALUES(31, 'W14', 'Winter 2014', '17'); INSERT INTO `application fields options` VALUES(32, 'SP14', 'Spring 2014', '17'); INSERT INTO `application fields options` VALUES(33, 'SU14', 'Summer 2014', '17'); INSERT INTO `application fields options` VALUES(42, 'ABW', 'Aruba', '12'); INSERT INTO `application fields options` VALUES(43, 'AFG', 'Afghanistan', '12'); INSERT INTO `application fields options` VALUES(44, 'ALB', 'Albania', '12');

INSERT INTO `application_fields_options` VALUES(45, '	DZA',
'Algeria', '12');	
INSERT INTO `application_fields_options` VALUES(46, '	ASM',
'American Samoa', '12');	
INSERT INTO `application_fields_options` VALUES(47, '	AND',
'Andorra', '12');	
INSERT INTO `application_fields_options` VALUES(48, '	AGO',
'Angola', '12');	
INSERT INTO `application_fields_options` VALUES(49, '	AIA',
'Anguilla', '12');	
INSERT INTO `application_fields_options` VALUES(50, '	ATA',
'Antarctica', '12');	
INSERT INTO `application_fields_options` VALUES(51, '	ATG',
'Antigua and Barbuda', '12');	
INSERT INTO `application_fields_options` VALUES(52, '	ARG',
'Argentina', '12');	
INSERT INTO `application_fields_options` VALUES(53, '	ARM',
'Armenia', '12');	
INSERT INTO `application_fields_options` VALUES(54, '	AUS',
'Australia', '12');	
INSERT INTO `application_fields_options` VALUES(55, '	AUT',
'Austria', '12');	
INSERT INTO `application_fields_options` VALUES(56, '	AZE',
'Azerbaijan', '12');	
INSERT INTO `application_fields_options` VALUES(57, '	BHS',
'Bahamas', '12');	·
INSERT INTO `application_fields_options` VALUES(58, '	BHR',
'Bahrain', '12');	
INSERT INTO `application_fields_options` VALUES(59, '	BGD',
'Bangladesn', '12');	
INSERT INTO application_fields_options VALUES(60, '	вкв,
'Barbados', '12');	57 5 1
INSERT INTO application_fields_options VALUES(61, '	BLK.'
'Belarus', '12');	5 7 7
INSERT INTO application_rields_options VALUES(62, '	вег.,
TNEEPT INTO `application fields options` WAINES/63 !	יקד
INSERT INTO apprication_fields_options VALOES(05,	БЦА ,
INSERT INTO `application fields options` VALUES (64)	BENI
'Benin', '12'):	
INSERT INTO `application fields options` VALUES(65. '	BMU'.
'Bermuda'. '12');	,
INSERT INTO `application fields options` VALUES(66. '	BTN'.
'Bhutan', '12');	

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INSERT INTO `application fields options` VALUES(67, 'BOL', 'Bolivia', '12'); INSERT INTO `application fields options` VALUES(68, 'BIH', 'Bosnia and Herzegovina', '12'); INSERT INTO `application fields options` VALUES(69, 'BWA', 'Botswana', '12'); INSERT INTO `application fields options` VALUES(70, 'BVT', 'Bouvet Island', '12'); INSERT INTO `application_fields_options` VALUES(71, 'BRA', 'Brazil', '12'); INSERT INTO `application fields options` VALUES(72, 'IOT', 'British Indian Ocean Territory', '12'); INSERT INTO `application fields options` VALUES(73, 'BRN', 'Brunei', '12'); INSERT INTO `application fields options` VALUES(74, 'BGR', 'Bulgaria', '12'); INSERT INTO `application fields options` VALUES(75, 'BFA', 'Burkina Faso', '12'); INSERT INTO `application fields options` VALUES(76, 'BDI', 'Burundi', '12'); INSERT INTO `application fields options` VALUES(77, 'CIV', 'C??te d?', '12'); INSERT INTO `application fields options` VALUES(78, 'KHM', 'Cambodia', '12'); INSERT INTO `application fields options` VALUES(79, 'CMR', 'Cameroon', '12'); INSERT INTO `application fields options` VALUES(80, 'CAN', 'Canada', '12'); INSERT INTO `application_fields_options` VALUES(81, 'CPV', 'Cape Verde', '12'); INSERT INTO `application fields options` VALUES(82, 'CYM', 'Cayman Islands', '12'); INSERT INTO `application fields options` VALUES(83, 'CAF', 'Central African Republic', '12'); INSERT INTO `application fields options` VALUES(84, 'TCD', 'Chad', '12'); INSERT INTO `application fields options` VALUES(85, 'CHL', 'Chile', '12'); INSERT INTO `application fields options` VALUES(86, 'CHN', 'China', '12'); INSERT INTO `application_fields_options` VALUES(87, 'CXR', 'Christmas Island', '12'); INSERT INTO `application fields options` VALUES(88, 'CCK', 'Cocos (Keeling) Islands', '12');

INSERT INTO `application fields options` VALUES(89, 'COL', 'Colombia', '12'); INSERT INTO `application fields options` VALUES(90, 'COM', 'Comoros', '12'); INSERT INTO `application fields options` VALUES(91, 'COG', 'Congo', '12'); INSERT INTO `application fields options` VALUES(92, 'COD', 'Congo, The Democratic Republic of the', '12'); INSERT INTO `application_fields_options` VALUES(93, 'COK', 'Cook Islands', '12'); INSERT INTO `application fields options` VALUES(94, 'CRI', 'Costa Rica', '12'); INSERT INTO `application fields options` VALUES(95, 'HRV', 'Croatia', '12'); INSERT INTO `application fields options` VALUES(96, 'CUB', 'Cuba', '12'); INSERT INTO `application fields options` VALUES(97, 'CYP', 'Cyprus', '12'); INSERT INTO `application fields options` VALUES(98, 'CZE', 'Czech Republic', '12'); INSERT INTO `application fields options` VALUES(99, 'DNK', 'Denmark', '12'); INSERT INTO `application fields options` VALUES(100, 'DJI', 'Djibouti', '12'); INSERT INTO `application fields options` VALUES(101, 'DMA', 'Dominica', '12'); INSERT INTO `application fields options` VALUES(102, 'DOM', 'Dominican Republic', '12'); INSERT INTO `application_fields_options` VALUES(103, 'TMP', 'East Timor', '12'); INSERT INTO `application fields options` VALUES(104, 'ECU', 'Ecuador', '12'); INSERT INTO `application fields options` VALUES(105, 'EGY', 'Egypt', '12'); INSERT INTO `application fields options` VALUES(106, 'SLV', 'El Salvador', '12'); INSERT INTO `application fields options` VALUES(107, 'GNQ', 'Equatorial Guinea', '12'); INSERT INTO `application fields options` VALUES(108, 'ERI', 'Eritrea', '12'); INSERT INTO `application fields options` VALUES(109, 'EST', 'Estonia', '12'); INSERT INTO `application fields options` VALUES(110, 'ETH', 'Ethiopia', '12');

```
INSERT INTO `application fields options` VALUES(111,
'FLK', 'Falkland Islands', '12');
INSERT INTO `application fields options` VALUES(112,
'FRO', 'Faroe Islands', '12');
INSERT INTO `application fields options` VALUES(113,
'FJI', 'Fiji Islands', '12');
INSERT INTO `application fields options` VALUES(114,
'FIN', 'Finland', '12');
INSERT INTO `application fields options` VALUES(115,
'FRA', 'France', '12');
INSERT INTO `application fields options` VALUES(116,
'GUF', 'French Guiana', '12');
INSERT INTO `application fields options` VALUES(117,
'PYF', 'French Polynesia', '12');
INSERT INTO `application fields options` VALUES(118,
'ATF', 'French Southern territories', '12');
INSERT INTO `application fields options` VALUES(119,
'GAB', 'Gabon', '12');
INSERT INTO `application_fields_options` VALUES(120,
'GMB', 'Gambia', '12');
INSERT INTO `application fields options` VALUES(121,
'GEO', 'Georgia', '12');
INSERT INTO `application fields options` VALUES(122,
'DEU', 'Germany', '12');
INSERT INTO `application fields options` VALUES(123,
'GHA', 'Ghana', '12');
INSERT INTO `application fields options` VALUES(124,
'GIB', 'Gibraltar', '12');
INSERT INTO `application fields options` VALUES(125,
'GRC', 'Greece', '12');
INSERT INTO `application fields options` VALUES(126,
'GRL', 'Greenland', '12');
INSERT INTO `application fields options` VALUES(127,
'GRD', 'Grenada', '12');
INSERT INTO `application fields options` VALUES(128,
'GLP', 'Guadeloupe', '12');
INSERT INTO `application fields options` VALUES(129,
'GUM', 'Guam', '12');
INSERT INTO `application fields options` VALUES(130,
'GTM', 'Guatemala', '12');
INSERT INTO `application fields options` VALUES(131,
'GIN', 'Guinea', '12');
INSERT INTO `application fields options` VALUES(132,
'GNB', 'Guinea-Bissau', '12');
```

```
INSERT INTO `application fields options` VALUES(133,
'GUY', 'Guyana'; '12');
INSERT INTO `application fields options` VALUES(134,
'HTI', 'Haiti', '12');
INSERT INTO `application fields options` VALUES(135,
'HMD', 'Heard Island and McDonald Islands', '12');
INSERT INTO `application fields options` VALUES(136,
'VAT', 'Holy See (Vatican City State)', '12');
INSERT INTO `application fields options` VALUES(137,
'HND', 'Honduras', '12');
INSERT INTO `application fields options` VALUES(138,
'HKG', 'Hong Kong', '12');
INSERT INTO `application fields options` VALUES(139,
'HUN', 'Hungary', '12');
INSERT INTO `application fields options` VALUES(140,
'ISL', 'Iceland', '12');
INSERT INTO `application fields options` VALUES(141,
'IND', 'India', '12');
INSERT INTO `application fields options` VALUES(142,
'IDN', 'Indonesia', '12');
INSERT INTO `application fields options` VALUES(143,
'IRN', 'Iran', '12');
INSERT INTO `application fields options` VALUES(144,
'IRQ', 'Iraq', '12');
INSERT INTO `application fields options` VALUES(145,
'IRL', 'Ireland', '12');
INSERT INTO `application fields options` VALUES(146,
'ISR', 'Israel', '12');
INSERT INTO `application fields options` VALUES(147,
'ITA', 'Italy', '12');
INSERT INTO `application fields options` VALUES(148,
'JAM', 'Jamaica', '12');
INSERT INTO `application fields options` VALUES(149,
'JPN', 'Japan', '12');
INSERT INTO `application fields options` VALUES(150,
'JOR', 'Jordan', '12');
INSERT INTO `application fields options` VALUES(151,
'KAZ', 'Kazakstan', '12');
INSERT INTO `application_fields_options` VALUES(152,
'KEN', 'Kenya', '12');
INSERT INTO `application fields options` VALUES(153,
'KIR', 'Kiribati', '12');
INSERT INTO `application fields options` VALUES(154,
'KWT', 'Kuwait', '12');
```

```
INSERT INTO `application fields options` VALUES(155,
'KGZ', 'Kyrgyzstan', '12');
INSERT INTO `application fields options` VALUES(156,
'LAO', 'Laos', '12');
INSERT INTO `application fields options` VALUES(157,
'LVA', 'Latvia', '12');
INSERT INTO `application fields options` VALUES(158,
'LBN', 'Lebanon', '12');
INSERT INTO `application fields options` VALUES(159,
'LSO', 'Lesotho', '12');
INSERT INTO `application fields options` VALUES(160,
'LBR', 'Liberia', '12');
INSERT INTO `application fields options` VALUES(161,
'LBY', 'Libyan Arab Jamahiriya', '12');
INSERT INTO `application fields options` VALUES(162,
'LIE', 'Liechtenstein', '12');
INSERT INTO `application fields options` VALUES(163,
'LTU', 'Lithuania', '12');
INSERT INTO `application fields options` VALUES(164,
'LUX', 'Luxembourg', '12');
INSERT INTO `application fields options` VALUES(165,
'MAC', 'Macao', '12');
INSERT INTO `application fields options` VALUES(166,
'MKD', 'Macedonia', '12');
INSERT INTO `application fields options` VALUES(167,
'MDG', 'Madagascar', '12');
INSERT INTO `application fields options` VALUES(168,
'MWI', 'Malawi', '12');
INSERT INTO `application_fields options` VALUES(169,
'MYS', 'Malaysia', '12');
INSERT INTO `application fields options` VALUES(170,
'MDV', 'Maldives', '12');
INSERT INTO `application fields options` VALUES(171,
'MLI', 'Mali', '12');
INSERT INTO `application fields options` VALUES(172,
'MLT', 'Malta', '12');
INSERT INTO `application fields options` VALUES(173,
'MHL', 'Marshall Islands', '12');
INSERT INTO `application fields options` VALUES(174,
'MTQ', 'Martinique', '12');
INSERT INTO `application fields options` VALUES(175,
'MRT', 'Mauritania', '12');
INSERT INTO `application fields options` VALUES(176,
'MUS', 'Mauritius', '12');
```

```
INSERT INTO `application fields options` VALUES(177,
'MYT', 'Mayotte', '12');
INSERT INTO `application fields options` VALUES(178,
'MEX', 'Mexico', '12');
INSERT INTO `application fields options` VALUES(179,
'FSM', 'Micronesia, Federated States of', '12');
INSERT INTO `application fields options` VALUES(180,
'MDA', 'Moldova', '12');
INSERT INTO `application fields options` VALUES(181,
'MCO', 'Monaco', '12');
INSERT INTO `application fields options` VALUES(182,
'MNG', 'Mongolia', '12');
INSERT INTO `application fields_options` VALUES(183,
'MSR', 'Montserrat', '12');
INSERT INTO `application fields options` VALUES(184,
'MAR', 'Morocco', '12');
INSERT INTO `application fields options` VALUES(185,
'MOZ', 'Mozambique', '12');
INSERT INTO `application fields options` VALUES(186,
'MMR', 'Myanmar', '12');
INSERT INTO `application fields options` VALUES(187,
'NAM', 'Namibia', '12');
INSERT INTO `application fields options` VALUES(188,
'NRU', 'Nauru', '12');
INSERT INTO `application fields options` VALUES(189,
'NPL', 'Nepal', '12');
INSERT INTO `application fields options` VALUES(190,
'NLD', 'Netherlands', '12');
INSERT INTO `application_fields_options` VALUES(191,
'ANT', 'Netherlands Antilles', '12');
INSERT INTO `application fields options` VALUES(192,
'NCL', 'New Caledonia', '12');
INSERT INTO `application fields options` VALUES(193,
'NZL', 'New Zealand', '12');
INSERT INTO `application fields options` VALUES(194,
'NIC', 'Nicaragua', '12');
INSERT INTO `application fields options` VALUES(195,
'NER', 'Niger', '12');
INSERT INTO `application fields options` VALUES(196,
'NGA', 'Nigeria', '12');
INSERT INTO `application fields options` VALUES(197,
'NIU', 'Niue', '12');
INSERT INTO `application fields options` VALUES(198,
'NFK', 'Norfolk Island', '12');
```

```
INSERT INTO `application fields options` VALUES(199,
'PRK', 'North Korea', '12');
INSERT INTO `application fields options` VALUES(200,
'MNP', 'Northern Mariana Islands', '12');
INSERT INTO `application fields options` VALUES(201,
'NOR', 'Norway', '12');
INSERT INTO `application fields options` VALUES(202,
'OMN', 'Oman', '12');
INSERT INTO `application fields_options` VALUES(203,
'PAK', 'Pakistan', '12');
INSERT INTO `application fields options` VALUES(204,
'PLW', 'Palau', '12');
INSERT INTO `application fields options` VALUES(205,
'PSE', 'Palestine', '12');
INSERT INTO `application fields options` VALUES(206,
'PAN', 'Panama', '12');
INSERT INTO `application fields' options` VALUES(207,
'PNG', 'Papua New Guinea', '12');
INSERT INTO `application fields options` VALUES(208,
'PRY', 'Paraguay', '12');
INSERT INTO `application fields options` VALUES(209,
'PER', 'Peru', '12');
INSERT INTO `application fields options` VALUES(210,
'PHL', 'Philippines', '12');
INSERT INTO `application fields_options` VALUES(211,
'PCN', 'Pitcairn', '12');
INSERT INTO `application fields options` VALUES(212,
'POL', 'Poland', '12');
INSERT INTO `application fields options` VALUES(213,
'PRT', 'Portugal', '12');
INSERT INTO `application fields options` VALUES(214,
'PRI', 'Puerto Rico', '12');
INSERT INTO `application fields options` VALUES(215,
'QAT', 'Qatar', '12');
INSERT INTO `application fields options` VALUES(216,
'REU', 'R??union', '12');
INSERT INTO `application fields options` VALUES(217,
'ROM', 'Romania', '12');
INSERT INTO `application fields options` VALUES(218,
'RUS', 'Russian Federation', '12');
INSERT INTO `application fields options` VALUES(219,
'RWA', 'Rwanda', '12');
INSERT INTO `application fields options` VALUES(220,
'SHN', 'Saint Helena', '12');
```

INSERT INTO `application fields options` VALUES(221, 'KNA', 'Saint Kitts and Nevis', '12'); INSERT INTO `application fields options` VALUES(222, 'LCA', 'Saint Lucia', '12'); INSERT INTO `application fields options` VALUES(223, 'SPM', 'Saint Pierre and Miguelon', '12'); INSERT INTO `application fields options` VALUES(224, 'VCT', 'Saint Vincent and the Grenadines', '12'); INSERT INTO `application fields options` VALUES(225, 'WSM', 'Samoa', '12'); INSERT INTO `application fields options` VALUES(226, 'SMR', 'San Marino', '12'); INSERT INTO `application fields options` VALUES(227, 'STP', 'Sao Tome and Principe', '12'); INSERT INTO `application fields options` VALUES(228, 'SAU', 'Saudi Arabia', '12'); INSERT INTO `application fields options` VALUES(229, 'SEN', 'Senegal', '12'); INSERT INTO `application fields options` VALUES(230, 'SYC', 'Seychelles', '12'); INSERT INTO `application fields options` VALUES(231, 'SLE', 'Sierra Leone', '12'); INSERT INTO `application fields options` VALUES(232, 'SGP', 'Singapore', '12'); INSERT INTO `application fields options` VALUES(233, 'SVK', 'Slovakia', '12'); INSERT INTO `application fields options` VALUES(234, 'SVN', 'Slovenia', '12'); INSERT INTO `application_fields_options` VALUES(235, 'SLB', 'Solomon Islands', '12'); INSERT INTO `application fields options` VALUES(236, 'SOM', 'Somalia', '12'); INSERT INTO `application fields options` VALUES(237, 'ZAF', 'South Africa', '12'); INSERT INTO `application fields options` VALUES(238, 'SGS', 'South Georgia and the South Sandwich Islands', '12'); INSERT INTO `application fields options` VALUES(239, 'KOR', 'South Korea', '12'); INSERT INTO `application fields options` VALUES(240, 'ESP', 'Spain', '12'); INSERT INTO `application fields options` VALUES(241, 'LKA', 'Sri Lanka', '12');

```
INSERT INTO `application fields options` VALUES(242,
'SDN', 'Sudan', '12');
INSERT INTO `application fields options` VALUES(243,
'SUR', 'Suriname', '12');
INSERT INTO `application fields options` VALUES(244,
'SJM', 'Svalbard and Jan Mayen', '12');
INSERT INTO `application fields options` VALUES(245,
'SWZ', 'Swaziland', '12');
INSERT INTO `application fields options` VALUES(246,
'SWE', 'Sweden', '12');
INSERT INTO `application fields options` VALUES(247,
'CHE', 'Switzerland', '12');
INSERT INTO `application fields options` VALUES(248,
'SYR', 'Syria', '12');
INSERT INTO `application fields options` VALUES(249,
'TWN', 'Taiwan', '12');
INSERT INTO `application fields options` VALUES(250,
'TJK', 'Tajikistan', '12');
INSERT INTO `application fields options` VALUES(251,
'TZA', 'Tanzania', '12');
INSERT INTO `application fields options` VALUES(252,
'THA', 'Thailand', '12');
INSERT INTO `application fields options` VALUES(253,
'TGO', 'Togo', '12');
INSERT INTO `application fields options` VALUES(254,
'TKL', 'Tokelau', '12');
INSERT INTO `application fields options` VALUES(255,
'TON', 'Tonga', '12');
INSERT INTO `application fields options` VALUES(256,
'TTO', 'Trinidad and Tobago', '12');
INSERT INTO `application fields options` VALUES(257,
'TUN', 'Tunisia', '12');
INSERT INTO `application fields options` VALUES(258,
'TUR', 'Turkey', '12');
INSERT INTO `application fields options` VALUES(259,
'TKM', 'Turkmenistan', '12');
INSERT INTO `application fields options` VALUES(260,
'TCA', 'Turks and Caicos Islands', '12');
INSERT INTO `application fields options` VALUES(261,
'TUV', 'Tuvalu', '12');
INSERT INTO `application fields options` VALUES(262,
'UGA', 'Uganda', '12');
INSERT INTO `application fields options` VALUES(263,
'UKR', 'Ukraine', '12');
```

```
INSERT INTO `application fields options` VALUES(264,
'ARE', 'United Arab Emirates', '12');
INSERT INTO `application fields options` VALUES(265,
'GBR', 'United Kingdom', '12');
INSERT INTO `application fields options` VALUES(266,
'USA', 'United States', '12');
INSERT INTO `application fields options` VALUES(267,
'UMI', 'United States Minor Outlying Islands', '12');
INSERT INTO `application_fields_options` VALUES(268,
'URY', 'Uruguay', '12');
INSERT INTO `application fields options` VALUES(269,
'UZB', 'Uzbekistan', '12');
INSERT INTO `application fields options` VALUES(270,
'VUT!, 'Vanuatu', '12');
INSERT INTO `application fields options` VALUES(271,
'VEN', 'Venezuela', '12');
INSERT INTO `application fields options` VALUES(272,
'VNM', 'Vietnam', '12');
INSERT INTO `application fields options` VALUES(273,
'VGB', 'Virgin Islands, British', '12');
INSERT INTO `application fields options` VALUES(274,
'VIR', 'Virgin Islands, U.S.', '12');
INSERT INTO `application fields options` VALUES(275,
'WLF', 'Wallis and Futuna', '12');
INSERT INTO `application fields options` VALUES(276,
'ESH', 'Western Sahara', '12');
INSERT INTO `application fields options` VALUES(277,
'YEM', 'Yemen', '12');
INSERT INTO `application fields options` VALUES(278,
'YUG', 'Yugoslavia', '12');
INSERT INTO `application fields options` VALUES(279,
'ZMB', 'Zambia', '12');
INSERT INTO `application fields options` VALUES(280,
'ZWE', 'Zimbabwe', '12');
INSERT INTO `application fields options` VALUES(281, 'cs',
'Computer Science', '16');
INSERT INTO `application fields options` VALUES(282,
'yes', 'yes', '32');
INSERT INTO `application fields options` VALUES(283, 'no',
'no', '32');
```

```
-- Table structure for table `application sections`
CREATE TABLE `application sections` (
  'id' int(11) NOT NULL auto increment,
  `name` varchar(100) NOT NULL,
  `parent` int(11) NOT NULL default '-1',
  `content` varchar(500) NOT NULL,
  `class` varchar(20) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=20
;
-- Dumping data for table `application sections`
___
INSERT INTO `application sections` VALUES(1, 'biographical
information', 0, 'You will get your student ID after
applying to the university. If you have not done that yet,
please click <a
href="http://www.csumentor.edu/admissionapp/grad apply.asp
" target=" blank" style="text-decoration:underline; font-
style:italic">here</a> to finish it first.', '');
INSERT INTO `application sections` VALUES(2, 'contact
information', 0, '', '');
INSERT INTO `application sections` VALUES(3, 'program
information', 0, '', '');
INSERT INTO `application sections` VALUES(4, 'academic
background', 0, '', '');
INSERT INTO `application sections` VALUES(5, 'test
information', 0, 'Please provide us your test information
the same as they are on the official transcripts. GRE is
required for all applicants. If you have not taken the
test or received the score yet, please leave them blank.
You can mail us your official transcripts later. <div
class="ui-state-default ui-corner-all"
style="padding:5px;">* Please Send a copy of each test
scores to the School of Computer Science and Engineering
(address given on the bottom of the page).</div>', '');
INSERT INTO `application sections` VALUES(6,
'recommendations', 0, '', '');
```

INSERT INTO `application sections` VALUES(7, 'identification', 1, 'Please use your legal name. Do not use nicknames or abbreviations. <a>International students: Type your name exactly as it appears on your passport.', ''); INSERT INTO `application sections` VALUES(8, 'demographic information', 1, 'An international student is either holding one of the following visas: F1, B1, B2, H4, or L2.', ''); INSERT INTO `application sections` VALUES(9, 'current address', 2, 'For addresses outside of the United States, please use all available space on both street address lines and the city line to include the province, territory and postal code.', ''); INSERT INTO `application sections` VALUES(10, 'Telephone ', 2, '', ''); INSERT INTO `application_sections` VALUES(11, 'Program of Study', 3, '', ''); INSERT INTO `application_sections` VALUES(12, 'general academic information', 4, 'We report GPA (grade point average) on a 4.0 scale. The top grade is an A, which equals 4.0. <ahref="http://rre.csusb.edu/misc/gpcalc.html" target=" blank">CSUSB GPA Calculator', ''); INSERT INTO `application sections` VALUES(13, 'colleges and universities attended', 4, 'Please list all colleges and universities you have attended in chronological order, beginning with the first college or university you attended. Make sure to include your current institution and any ESL studies (if applicable).', ''); INSERT INTO `application sections` VALUES(14, 'graduate record examination (GRE)', 5, 'We only accept GRE taken within 3 years. If you have taken the GRE multiple times, please report the best score received in each skill category. ', ''); INSERT INTO `application sections` VALUES(15, 'Test of English as a Foreign Language (TOEFL)', 19, 'We only accept TOEFL taken within 2 years. You only need to report a Total Score. ', 'internationalOnly'); INSERT INTO `application sections` VALUES(16, 'International English Language Testing System (IELTS)', 19, 'We only accept 6.0 band score taken within 2 years. IELTS is NOT required If you have TOEFL score. ', 'internationalOnly');

```
INSERT INTO `application sections` VALUES(17,
'recommenders', 6, 'Please list up to 3 recommenders, who
will submit letters of recommendation on your behalf.
Recommendations should be provided from employers,
supervisors, professors, or others who are able to comment
on your professional and educational goals and
potential.', '');
INSERT INTO `application sections` VALUES(18, 'statement
of purpose', 0, 'Write a brief statement (no more than 400
words) on your reasons for pursuing the M.S. Degree in
Computer Science. Include any additional information
concerning your preparation pertinent to the M.S.
Degree.', '');
INSERT INTO `application sections` VALUES(19, 'English
Requirement', 5, 'TOEFL or IELTS is required for
international students only. This requirement can be
waived by completing ACLP/IEP level 6 (language program).
', 'internationalOnly');
-- Table structure for table `evaluations`
CREATE TABLE `evaluations` (
  `studentID` varchar(12) NOT NULL,
  `classification` varchar(50) NOT NULL,
  `admitterm` varchar(20) NOT NULL,
  `deficiencies` varchar(150) NOT NULL,
  `comments` varchar(2000) NOT NULL
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
-- Dumping data for table `evaluations`
____
-- Table structure for table `evaluation fields`
```

```
_ _
CREATE TABLE `evaluation fields` (
  'id' int(11) NOT NULL auto increment,
  `name` varchar(20) NOT NULL,
  `type` varchar(20) NOT NULL,
  `class` varchar(100) NOT NULL,
``hint` varchar(200) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=1 ;
-- Dumping data for table `evaluation fields`
___
-- Table structure for table `help_center`
___
CREATE TABLE `help center` (
  'id' int(11) NOT NULL auto increment,
  `name` varchar(35) NOT NULL,
  `content` varchar(150) NOT NULL,
  'class' varchar(20) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=4 ;
-- Dumping data for table `help center`
_ _
INSERT INTO `help center` VALUES(1, 'Navigation Overview',
'./system/modules/navigation overview.php',
'open dialog');
INSERT INTO `help center` VALUES(2, 'Technical Tips',
'./system/modules/tech_tips.php', 'open dialog');
INSERT INTO `help center` VALUES(3, 'FAQ (Frequently Asked
Questions)', './system/modules/question answers.php',
'open dialog');
```
```
-- Table structure for table `message templates`
CREATE TABLE `message templates` (
  'id' int(11) NOT NULL auto increment,
  `code` varchar(30) NOT NULL,
  `subject` varchar(200) NOT NULL,
  `content` varchar(5000) NOT NULL,
 PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=2 ;
-- Dumping data for table `message templates`
INSERT INTO `message templates` VALUES(1, 'letter of
reference', 'letter of reference for CSE in CSUSB', 'has
applied CSE in CSUSB and has listed you as reference.
Please click the link below to fill your recommendation
letter. \\n To the Recommender: Persons who have applied
for admissions to CSUSB, whether or not they have been
accepted for admission and enrolled therein, shall be
permitted to inspect and review letters and statements of
recommendations to which they have not waived their right
of access (see above student waiver of access). \\n Please
click the link below to start you recommendation: ');
-- Table structure for table `new account`
___
CREATE TABLE `new account` (
  'id' int(11) NOT NULL auto increment,
  `name` varchar(20) NOT NULL,
  `type` varchar(20) NOT NULL,
  `class` varchar(300) NOT NULL,
  `hint` varchar(150) NOT NULL,
```

```
PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=3 ;
-- Dumping data for table `new account`
INSERT INTO `new_account` VALUES(1, 'email', 'text',
'textInput required validateEmail validateEmailExist',
'Please input your valid email address. You will need it
to activate your account.');
INSERT INTO `new account` VALUES(2, 'password',
'password', 'textInput required validateAlphaNum
validateAtLeast validateMinLength val-8', '');
-- Table structure for table `recommendation`
_ _
CREATE TABLE `recommendation` (
  'id' int(11) NOT NULL auto increment,
  `recommender` int(11) NOT NULL,
  `applicant` int(11) NOT NULL,
  `howlonghaveyouknowntheapplicant` varchar(20) NOT NULL,
  `relationship` varchar(20) NOT NULL,
  'position' varchar(50) NOT NULL,
  `institution` varchar(100) NOT NULL,
  `phone` varchar(20) NOT NULL,
  `address` varchar(200) NOT NULL,
  `nativeintellectualability` varchar(5) NOT NULL,
  `imaginationandprobablecreativity` varchar(5) NOT NULL,
  `breadthofgeneralknowledge` varchar(5) NOT NULL,
  `abilityinoralexpression` varchar(5) NOT NULL,
  `writingability` varchar(5) NOT NULL,
  `emotionalmaturity` varchar(5) NOT NULL,
  `promiseasateacher` varchar(5) NOT NULL,
  `overallrecommendationastopromiseasaprofessional`
varchar(5) NOT NULL,
  `overallrecommendation` varchar(10) NOT NULL,
  `comments` varchar(8000) NOT NULL,
```

```
`timestamp` timestamp NOT NULL default
CURRENT TIMESTAMP.
 PRIMARY KEY (`id`)'
) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=9 ;
-- Dumping data for table `recommendation`
--
-- Table structure for table `recommendation fields`
CREATE TABLE `recommendation fields` (
  'id' int(11) NOT NULL auto increment,
  `name` varchar(70) NOT NULL,
  `section` varchar(20) NOT NULL,
  `type` varchar(20) NOT NULL,
  `class` varchar(200) NOT NULL,
  `hint` varchar(100) NOT NULL,
 PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=112 ;
-- Dumping data for table `recommendation fields`
---
INSERT INTO `recommendation_fields` VALUES(6, 'how long
have you known the applicant', 'info', 'text', 'textInput
required', 'How long have you known the Applicant?
                                                        1);
INSERT INTO `recommendation fields` VALUES(5,
'relationship', 'info', 'text', 'textInput required', 'In
what relationship?');
INSERT INTO `recommendation fields` VALUES(2, 'position',
'info', 'text', 'textInput required', 'position');
INSERT INTO `recommendation fields` VALUES(1,
'institution', 'info', 'text', 'textInput required',
'institution');
```

INSERT INTO `recommendation fields` VALUES(3, 'phone', 'info', 'text', 'textInput required validatePhone', 'your primary phone number'); INSERT INTO `recommendation fields` VALUES(4, 'address', 'info', 'text', 'textInput required', 'street line, city, state, country'); INSERT INTO `recommendation fields` VALUES(7, 'native intellectual ability ', 'comparison', 'radio', 'required', ''); INSERT INTO `recommendation fields` VALUES(8, 'imagination and probable creativity ', 'comparison', 'radio', 'required', ''); INSERT INTO `recommendation fields` VALUES(9, 'breadth of general knowledge ', 'comparison', 'radio', '', ''); INSERT INTO `recommendation fields` VALUES(10, 'ability in oral expression', 'comparison', 'radio', '', ''); INSERT INTO `recommendation fields` VALUES(11, 'writing ability ', 'comparison', 'radio', 'required', ''); INSERT INTO `recommendation_fields` VALUES(12, 'emotional maturity', 'comparison', 'radio', 'required', ''); INSERT INTO `recommendation fields` VALUES(13, 'promise as a teacher', 'comparison', 'radio', 'required', ''); INSERT INTO `recommendation_fields` VALUES(14, 'overall recommendation as to promise as a professional', 'comparison', 'radio', 'required', 'overall recommendation as to promise as a professional in the field '); INSERT INTO `recommendation fields` VALUES(15, 'overall recommendation ', 'overall', 'radio', 'required', ''); _ -- Table structure for table `recommendation fields options` - -CREATE TABLE `recommendation fields options` ('id' int(11) NOT NULL auto increment, `code` varchar(20) NOT NULL, `name` varchar(100) NOT NULL, `parent` int(11) NOT NULL,

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) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=11 ;

PRIMARY KEY (`id`)

```
-- Dumping data for table `recommendation fields options`
INSERT INTO `recommendation fields options` VALUES(1, '1',
'Upper 1 or 2%', 0);
INSERT INTO `recommendation fields options` VALUES(2, '2',
'upper 10% but not upper 1 or 2%', 0);
INSERT INTO `recommendation fields options` VALUES(3, '3',
'upper 25% but not upper 10% ', 0);
INSERT INTO `recommendation_fields_options` VALUES(4, '4',
'upper half but not upper 25% ', 0);
INSERT INTO `recommendation fields options` VALUES(5, '5',
'lower half', 0);
INSERT INTO `recommendation fields options` VALUES(6, '6',
'no basis for judgement ', 0);
INSERT INTO `recommendation fields_options` VALUES(7,
'excellent', 'I recommend the applicant without
reservation as an excellent prospect. ', 15);
INSERT INTO `recommendation fields options` VALUES(8,
'good', 'I have some reservations, but would recommend the
applicant as a good prospect. ', 15);
INSERT INTO `recommendation fields options` VALUES(9,
'doubts', 'I have substantial doubts, but think the
applicant should be given a chance to prove him/herself',
15);
INSERT INTO `recommendation fields options` VALUES(10,
'not', 'I feel the applicant is not suited for the
program. ', 15);
-- Table structure for table `recommender`
___
CREATE TABLE `recommender` (
  'id' int(11) NOT NULL auto increment,
  `applicant` int(11) NOT NULL,
  `nameofreference` varchar(100) NOT NULL,
  `email` varchar(100) NOT NULL,
  `waivetoreview` varchar(5) NOT NULL,
```

```
'status` varchar(20) NOT NULL default 'not received',
  `action` varchar(30) NOT NULL default 'delete edit',
 `hash` varchar(32) NOT NULL,
 PRIMARY KEY (`id`).
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=24
;
---
-- Dumping data for table `recommender`
                       ______
-- Table structure for table `school attended`
---
CREATE TABLE `school attended` (
  'id' int(11) NOT NULL auto increment,
  `applicant` int(11) NOT NULL,
 `schoolname` varchar(200) NOT NULL,
  'yearfrom' varchar(15) NOT NULL,
  'yearto' varchar(15) NOT NULL,
 `GPA` varchar(8) NOT NULL,
 'degreeobtained' varchar(50) NOT NULL,
  `action` varchar(30) NOT NULL default 'delete edit',
 PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=16
;
-- Dumping data for table `school attended`
_ _
       _____
-- Table structure for table `staff`
___
CREATE TABLE `staff` (
  'id' int(11) NOT NULL auto increment,
```

```
`firstname` varchar(30) NOT NULL,
  `middleinitial` varchar(10) NOT NULL,
  `lastname` varchar(30) NOT NULL,
  `title` varchar(30) NOT NULL,
  `position` varchar(80) NOT NULL,
  `email` varchar(100) NOT NULL,
  `phone` varchar(20) NOT NULL,
  `salt` varchar(32) NOT NULL,
 PRIMARY KEY (`id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=2 ;
-- Dumping data for table `staff`
___
INSERT INTO `staff` VALUES(1, 'Haiyan', '', 'Qiao',
'Associate Professor', 'Graduate Coordinator for
Admissions', 'hgiao@csusb.edu', '1-(909) 537-5415', '');
-- Table structure for table `tables`
_---
CREATE TABLE `tables` (
  'id' int(11) NOT NULL auto increment,
 `parent` int(11) NOT NULL,
 `name` varchar(20) NOT NULL,
  `type` varchar(20) NOT NULL,
  `class` varchar(200) NOT NULL,
 `hint` varchar(500) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO INCREMENT=10
;
-- Dumping data for table `tables`
------
INSERT INTO `tables` VALUES(1, 29, 'school name', 'text',
'textInput required ', '');
```

INSERT INTO `tables` VALUES(2, 29, 'year from', 'text', 'textInput required ', ''); INSERT INTO `tables` VALUES(3, 29, 'year to', 'text', 'textInput required ', ''); INSERT INTO `tables` VALUES(4, 29, 'GPA', 'text', 'textInput required ', ''); INSERT INTO `tables` VALUES(5, 29, 'degree obtained', 'text', 'textInput required ', ''); INSERT INTO `tables` VALUES(6, 30, 'name of reference', 'text', 'textInput required ', 'first name MI last name'); INSERT INTO `tables` VALUES(7, 30, 'email', 'text', 'textInput required validateEmail', ''); INSERT INTO `tables` VALUES(8, 30, 'waive to review', 'radio', 'required ', 'Waiver of access to statements of recommendation is optional. I understand that letters and statements of recommendation \nconcerning me are to be received and maintained by CSUSB, School of Computer Science and Engineering, and I hereby expressly and voluntarily waive any and all access rights I might have to such recommendations under the Federal Family Rights and Privacy Act, the California Information Act, or the laws, regulations, or policies.'); INSERT INTO `tables` VALUES(9, 30, 'status', 'info', 'hide', 'letter not sent'); -- Table structure for table `tables options` _ _ CREATE TABLE `tables options` ('id' int(11) NOT NULL auto increment, `code` varchar(20) NOT NULL, `name` varchar(75) NOT NULL, `parent` int(11) NOT NULL, PRIMARY KEY (`id`)) ENGINE=MyISAM DEFAULT CHARSET=utf8 AUTO INCREMENT=3 ; -- Dumping data for table `tables options` _ _

INSERT INTO `tables_options` VALUES(1, 'yes', 'I do waive my right to review this letter of reference.', 8); INSERT INTO `tables_options` VALUES(2, 'no', 'I do not waive my right to review this letter of reference', 8);

~

REFERENCES

- [1] JQuery, "API Documentation", Internet: www.jquery.com, [October 22, 2013]
- [2] JQuery User Interface, "API Documentation", Internet: www.jqueryui.com, [October 22, 2013]
- [3] K. Rotte, "Graduate Advising System : Application Component", M.S. thesis, California State University, San Bernardino, San Bernardino, CA, Spring 2005.
- [4] PHP Hypertext Preprocessor, "PHP Manual", Internet: www.php.net, [October 18, 2013]
- [5] Y. Chiang, "Advising Module: Graduate Application System", M.S. thesis, California State University, San Bernardino, San Bernardino, CA, Spring 2005.