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Spring 2017

Digitized Engineering Notebook

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ABSTRACT

Digitizing engineering notebooks, articles, assignments, multimedia things, event calendar and uploading downloading files from online web portal will certainly help engineering students in their studies.

Here in this abstract we are proposing a system where students can share their notebooks on online web portal and others can read it and download it in a PDF format. This system will surly help and make updated all the students about college activities, studies and other activities.

Proposed system will implement in Microsoft .Net Framework, C#.Net, ASP.Net and required an IIS web server to run it on live server. Developing this system require an IDE i.e. Visual Studio and backed database MS SQL to keep records of notebooks, data and assignments etc.

There will be another super user which will manage student's record and manage and restrict them to access the system. He can manage projects, assignments and assign to students.

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1 Project Description

Governors State University required an online system where students can view and share their college notes and project details. System admin will provide the access to the projects and students can upload, download project contents from anywhere. Following modules are proposed for the system

Student

• Registration

Students need to register on website to get access of projects and contents of project.

• Sign in

Once registration is completed, student needs to login to the system using his/her credentials.

• Forget Password

If any student forgets their password he/she can get his/her password from this function. To get password he/she need to provide his registered email address on which system will email his/her password.

• Edit Profile with change password

This option will provide user to change his profile details and change his/her password.

• View Project List and Details

There will be a project list which he/she has joined. User can view the details of project which includes Date, Title, Duration, Users, User-wise Tasks, and Discussions

• Export complete Project Details in PDF

User can export project details on PDF format.

• Select Project & Upload Project Contents

User can upload contents of project which includes text, video, image, graphs image

• Invite friend via Email into Project

User can invite his/her friend to participate in project by providing friends email address.

• Project-wise discussion board

There is a discussion board where user can discuss and comments on project

• Logout

Logout from system

Admin

• Login

Admin need to login to the system to get access for all the functionalities

• Manage Project

Admin can manage project, he can add, update and delete project and its details

• View Students

Admin can view the student's registration details.

• Logout

Logout from system

1.1 Competitive Information

Governors State University does not have any online system to give online support to students to share the notes and project documents. Digitizing engineering notebooks, articles, assignments, multimedia things, event calendar and uploading downloading files from online web portal will certainly help engineering students in their studies

1.2 Relationship to Other Applications/Projects

This project is not related with any other system or project. This is self / independent application which will run on online server.

1.3 Assumptions and Dependencies

- If system will use for only college students
- There is no dependency in this system
- User of a system will dependent on others like super admin will manage the entire students where he can deactivate and delete their accounts.
- Website is dependent on web server performance. If server gives best performance there will be no issue running the website.

1.4 Future Enhancements

Future enhancements can be as follows;

- College faculties / Professors also can be user of a system
- They can upload, download contents from system
- Mobile applications can be developed

1.5 Definitions and Acronyms

Acronyms	Definitions
Engineering Notebook	Document where all the class notes are written for future references.
Website	Software application runs on a live server, accessible for all over internet.
Multimedia	Multimedia contents audios, videos etc.
IIS	Internet Information Services – Server to run the .Net website
IDE	Integrated Development Environment

2 Project Technical Description

• Hardware Requirements:

	Server Side	Client Side
Processor	Minimum Core i3 and above	Minimum Core i3 and above
RAM	Minimum 4GB or Higher	Minimum 2GB or Higher
Hard Disk	80 GB or Higher	20 GB or Higher

• Software Requirement:

➢ Front end:

.Net Framework 3.5

IIS

- Back end (Server):
- Database:

MS-SQL Server 2015 Express

> Other Technologies:

HTML, Microsoft Visual Studio 2012

> Operating System:

Windows XP, Windows Vista, Win 7

 \succ Tools:

Any Browser

Asp.Net:

ASP.Net offers a whole new approach to developing your web applications instead of a single code block that runs whenever the page is submitted, like we had in ASP. ASP.Net offer a richer programming model that emulates an event driven programming.

Static pages, web pages that have the same content each time you view them, are more and more becoming a thing of the past. To encourage the development of your web community and to get visitors to return to your site, you must provide them with a reason to come back. Probably the most compelling reason a person has for returning to your site is because you offer dynamic web content. Dynamic web pages can change every time they are viewed, or they can offer ways for visitors to send information back to you. ASP.Net provides a way for you to create dynamic web pages.

ASP .NET Controls: - ASP .NET contains a large set of HTML controls. Almost all HTML elements on a page can be defined as ASP .NET control objects that can be controlled by scripts. ASP .NET also contains a new set of object oriented input controls, like programmable list boxes and validation controls. A new data grid control supports sorting, data paging, and everything you expect from a dataset control.

Event Aware Controls: - All ASP .NET objects on a Web page can expose events that can be processed by ASP .NET code. Load, Change and Click events handled by code makes coding much simpler and much better organized.

ASP .NET Components: - ASP .NET components are heavily based on XML. Like new AD Rotator, uses XML's to store advertisement information and configuration.

User Authentication: - ASP .NET supports forms-based user authentication, including cookie management and automatic redirecting of unauthorized logins. User Accounts and Roles: - ASP .NET allows for user accounts and roles, to give each user (with a given role) access to different server code and executable.

IIS (Internet Information Server):

IIS is an abbreviation for Internet Information Services (formerly Internet Information Server.) It's Microsoft's web server that operates in Windows NT and 2000, giving Windows HTTP capability. IIS Web sites run using a copy of IIS that is installed on your computer. When you create a local IIS Web Site, the pages and folders for your site are stored in a folder under the default IIS folder for Web site. Visual Studio 2008 also creates the appropriate IIS configuration so that the Web site is recognizes by IIS as an application. To create a local IIS Web Site, you need to Administrator privileges on the computer.

HTML: -

The language used to develop web pages is called Hyper Text Markup Language (HTML). HTML is the language interpreted by a browser. Web pages are also called html documents. HTML can be embedded in text to add formatting and linking information. HTML is specified as Tags in an HTML document (I.e. web pages).

2.1 Application Architecture



User:

• There are three types of users in this project. They are Admin, Captain and Member.

Functionalities:

- Admin can accept/decline requests of captains.
- Admin can view and manage captains.
- Admin can view/manage projects.
- Captains can accept/decline requests of members.
- Captain can add/update/delete projects.
- Members can join projects and update the project.
- Users can discuss about the project on the discussion board.
- Users can upload and download the project files.
- Users can send invites to their friends.

2.2 Application Information flows

Admin

• Login

Admin need to login to the system to get access for all the functionalities

• Manage Project

Admin can manage project, he can add, update and delete project and its details

• View Students

Admin can view the student's registration details.

Admin can accept or decline captain's request.

• Logout

Logout from system

Student

• Registration

Students need to register on website to get access of projects and contents of project.

\Student needs to enter his name, contact, email, address, password and add the profile picture and select the user type.

• Sign in

Once registration is completed, student needs to login to the system using his/her credentials.

• Forget Password

If any student forgets their password he/she can get his/her password from this function. To get password he/she need to provide his registered email address on which system will email his/her password.

• Edit Profile with change password

This option will provide user to change his profile details and change his/her password.

• View Project List and Details

There will be a project list which he/she has joined. User can view the details of project which includes Date, Title, Duration, Users, User-wise Tasks, and Discussions

• Export complete Project Details in PDF

User can export project details on PDF format.

• Select Project & Upload Project Contents

User can upload contents of project which includes text, video, image, graphs image

• Invite friend via Email into Project

User can invite his/her friend to participate in project by providing friends email address.

• Project-wise discussion board

There is a discussion board where user can discuss and comments on project

• Logout

Logout from system

There are two user types

- 1. Captain
- 2. Member

Captain

- Captain can create a project on the website.
- Captain can send invites to his/her friends through email from which they could register on the website.
- Once the user registers on the website as Member, Captain gets his request.
- Captain can accept or decline users request.
- Captain can add/delete the users in a project.

Member

- Member can register on the website using the link provided in the email.
- Member can update the project details.
- Member can view project details and comment on the discussions board.

2.3 Interactions with other Projects (if Any)

No interaction with any other project.

2.4 Interactions with other Applications

No interaction with any other application.

2.5 Capabilities

Proposed system required a database which needs to handle the system data. System is built on .Net framework; it means it uses Microsoft SQL Server Database. All the project data and contents will store in database using SQL queries.

2.6 Risk Assessment and Management

As a system is quite lengthy, need to spend as much as time to complete the project in time.

3 Project Requirements

3.1 Identification of Requirements

Req. 1 - Upload Project Contents

Project captain and Members can upload contents of a project

Once captain and members are in a project, they can upload the project details, documents, diagrams, images, videos, audios etc.

Req. 2 - Download Project Contents

Captain and team members can download the project contents in PDF format.

By clicking on download button captain and team members can download all the contents in a PDF format.

Req. 3 - Project Discussion

Discussion Forum

Project team members and captain can discuss on project by text messages. All the messages will be stored in a database which can view later for any reference.

3.2 Operations, Administration, Maintenance and Provisioning (OAM&P)

System admin can back up all the website data from server admin panel.

3.3 Security and Fraud Prevention

Every user need to login to the system to access the website contents.

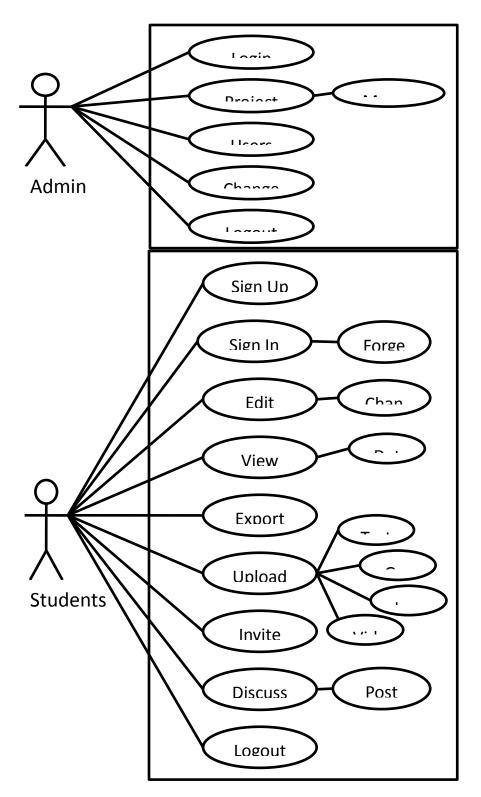
3.4 Release and Transition Plan

Project will complete in 4-6 weeks; complete project will host on a server and will provide the access to the admin.

4 Project Design Description

Use Case Diagram

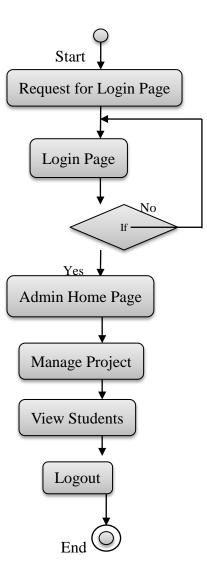
Use case diagrams overview the custom requirements for a system. They are useful for presentations to management and/or project stakeholders, but for actual development you will find that use cases provide significantly more value because they describe "the meat" of the actual requirements.

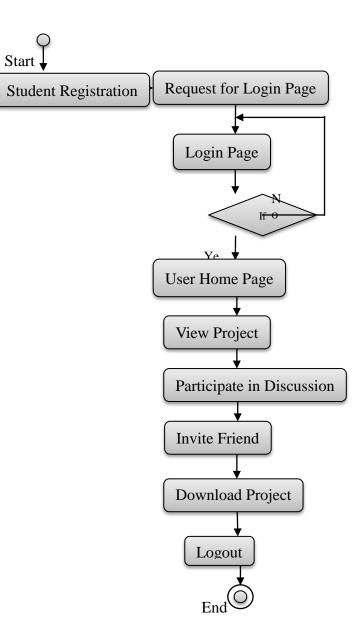


Activity Diagram

Activity diagrams are typically used for business process modeling, for modeling the logic captured by a single use case or usage scenario, or for modeling the detailed logic of a business rule. Activity diagrams can represent inside logic of a complex operation it would be far better to simply rewrite the operation so that it is simple enough that you don't require an activity diagram. In many ways UML activity diagrams

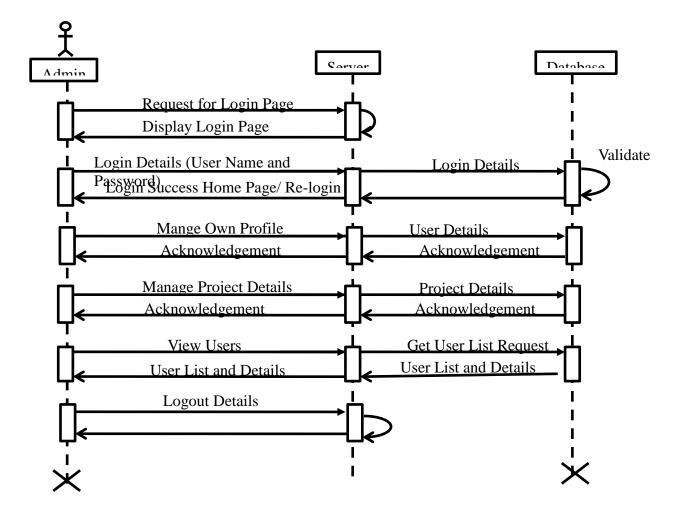
are the object-oriented equivalent of flow charts and data flow diagrams (DFDs) from structured development.

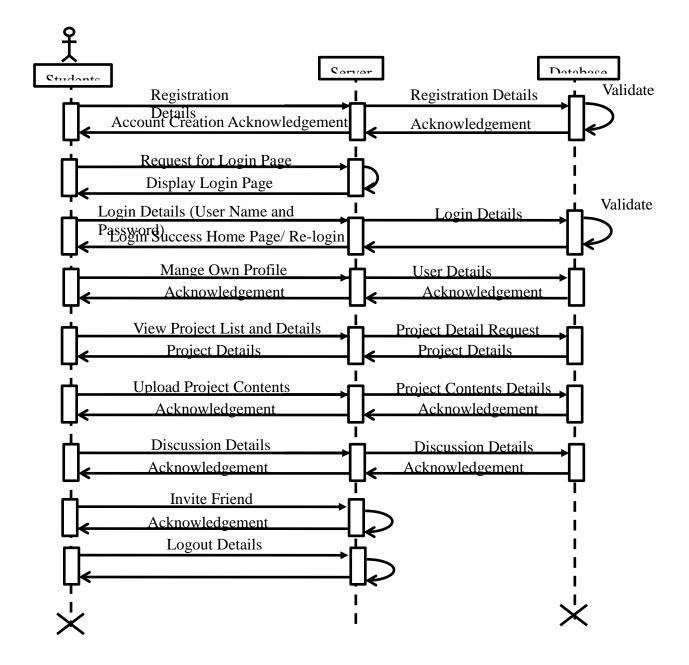


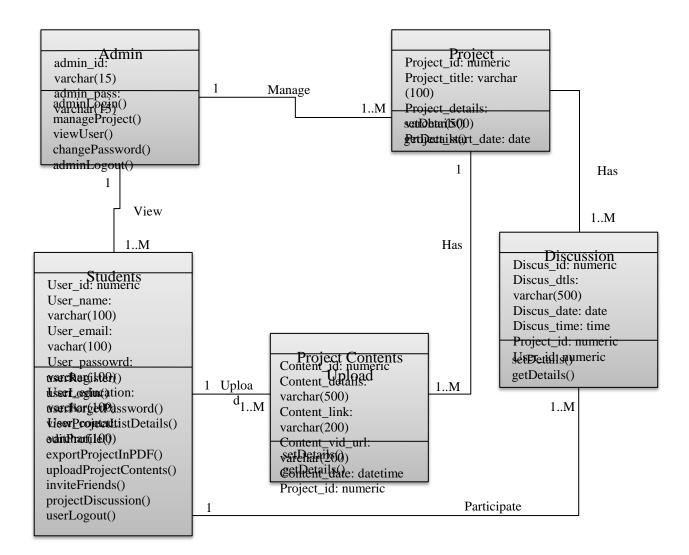


Sequence Diagram

It represents the flow of logic within your system in a visual manner, enabling you both to document and validate your logic, and is commonly used for both analysis and design purposes. Sequence diagrams are the most popular UML artefact for dynamic modelling, which focuses on identifying the behavior within your system.







5 Internal/external Interface Impacts and Specification

Database Structure

Admin Login Table

	Column Name	Data Type	Allow Nulls
P	add_ID	int	
	add_Profile	nvarchar(MAX)	\checkmark
	add_FName	nvarchar(MAX)	\checkmark
	add_LName	nvarchar(MAX)	\checkmark
	add_Contact	nvarchar(MAX)	\checkmark
	add_Email	nvarchar(MAX)	\checkmark
	add_Password	nvarchar(MAX)	\checkmark
▶	add_SecurityQue	nvarchar(MAX)	
	add_SecurityAns	nvarchar(MAX)	\checkmark

User Login Table

	Column Name	Data Type	Allow Nulls
8	ID	int	
	user_Name	nvarchar(MAX)	\checkmark
	user_ProfileImage	nvarchar(MAX)	\checkmark
	user_Contact	nvarchar(MAX)	\checkmark
	user_Address	nvarchar(MAX)	\checkmark
	user_Email	nvarchar(MAX)	\checkmark
	user_Password	nvarchar(MAX)	\checkmark
	user_Type	nvarchar(MAX)	\checkmark
	admin_Authority	nvarchar(MAX)	\checkmark
۲			

Blog/Discussion Table

	Column Name	Data Type	Allow Nulls
₽₿	blog_ID	int	
	user_ID	int	\checkmark
	project_ID	int	\checkmark
	blog_Text	nvarchar(MAX)	\checkmark
	blog_DateTime	nvarchar(MAX)	\checkmark

Project Contents Table

	Column Name	Data Type	Allow Nulls
8	content_ID	int	
	user_ID	int	\checkmark
	project_ID	int	\checkmark
	contect_Text	nvarchar(MAX)	\checkmark
	content_UploadFile	nvarchar(MAX)	\checkmark
	content_DateTime	nvarchar(MAX)	\checkmark
►			

Project Details Table

	Column Name	Data Type	Allow Nulls
8	project_ID	int	
	project_Captain	nvarchar(MAX)	\checkmark
	project_Name	nvarchar(MAX)	\checkmark
	project_Duration	nvarchar(MAX)	\checkmark
	project_Task	nvarchar(MAX)	\checkmark
	project_Reflections	nvarchar(MAX)	\checkmark
	project_Attechment	nvarchar(MAX)	\checkmark
	project_Summary	nvarchar(MAX)	\checkmark
۲			

Project Team Table

	Column Name	Data Type	Allow Nulls
P	team_ID	int	
	project_ID	int	\checkmark
	user_ID	int	\checkmark
►			

6 Design Units Impacts

Admin main process

me Sr.No User ProfileImage User Name User Contact				
	User_Address	User Email	Admin Authority	Action
1 RAHUL 8866445522	jalgaon	r@gmail.com	Accept	Accept Reject Delete
2 Inadeem 7755448866	nd@gmail.com	nd@gmail.com	Accept	Accept Reject Delete
3 akshay 7755448866	mumbai	ak@gmail.com	Accept	Accept Reject Delete
4 abhishek 77554482222	abhi@gmail.com	abhi@gmail.com	Reject	Accept Reject Delete
5 10 aman 872357592	5459 N spaudling ave	ehesanaman10@gmail.com	Accept	Accept Reject Delete

Captain main process

Manage Project

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쉽 Project's	Project Name		
Invite Friends	Duration Attachments		
🔒 LogOut	Choose File No file chosen		
	Task		
	Reflextion	li	
	Summary		
		4	
	Save Back		
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Project Discussion

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Invite Friends				Add Post		
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Project member main process

View and download project

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上 Invite Friends			
🔒 LogOut			
	Display Project Details		
	Digital Sketching and the Engineering Notebook		
	You didn't think we were done talking about engineering notebooks, did you? In all seriousness, I have talked about this subject a couple times fairly recently. In post titled The Forlorm Engineering Notebook, I wrote about the fact that technology had essentially left the engineering notebook behind. Then in a post titled Digital Notebooks for Engineering, I wrote about tome potential technologies and solutions to help engineers in taking text based notes. But there's a lot more to engineering notebooks than just text, right? In this post, lets take a look at sketching technologies and how it relates to engineering notebooks. Ready? https://www.youtube.com/watch?v=S0neloGY8-8		
sketching-300x253.jpg		Show all	×
		12:01 AM	
Ask me anything		16/04/2017	4

6.1 Functional Area A/Design Unit

6.1.1 Functional Overview

- Admin can manage users and projects
- Captain can create new project and upload, download contents of a project
- Team members can upload, download project contents.
- Project members can take a part in project discussion

7 Open Issues

There is no open issue in a system

8 Acknowledgements

We are thankful to our Professor to believe on us to complete this project. Developing the real life system gives real experience in IT industry. We have learned a lot while developing this application.

9 References

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- 3. http://www.dotnetcurry.com/
- 4. http://www.codeproject.com/
- 5. http://www.dotnetfunda.com/

10 Appendices

Admin login

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3	M	akshay	7755448866	mumbai	ak@gmail.com	Accept	Accept Reject Delete
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Manage Project

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Out	2	nadeem	digital Engineering Notebook	3 months	digital Engineering Notebook	
	3	RAHUL	digital Engineering Notebook	2 months	Using an Engineering Notebook to record ideas, inventions, experimentation records, observations and all work details is a vital part of any laboratory process. Careful attention to how you keep your Engineering Notebook can have a positive impact on the patent outcome of a pending discovery or invention.	
	4	nadeem	KMC Marts	2 month	static online shopping	
	5	aman	digitized engineering notebook	3 month	digitized engineering notebook	

View Project Details

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ehesanaman10@gmail.com	街 View Project Details			
# Home	Project name : digital Engineering Notebook		Duration : 2 months	
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Logout

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User Registration

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			User Contact						
			User Email						
			User Address		į,				
		Choose File No file chosen	Password						
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				Save Back					
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	You didn't think we were done talking about engineering notebooks, did you? In all seriousness, I have talked about this subject a couple times fairly recently. post titled The Forlorm Engineering Notebook, I wrote about the fact that technology had essentially left the engineering notebook behind. Then in a post title Digital Notebooks for Engineering, I wrote about some potential technologies and solutions to help engineers in taking text based notes. But there's a lot more engineering notebooks than just text, right? In this post, lets take a look at sketching technologies and how it relates to engineering notebooks. Ready? https://www.youtube.com/watch?v=S0neloGY8-8	d	
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Invite friends in project

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