University Utara Malaysia

College of Arts and science

Final Project Report

Educational Department Web Site For Libya Embassy, Malaysia

Supervisor: Dr. Kang Eng Thye

Prepared by: Mohamed Elhadi M. Sharif

2009

EDUCATIONAL DEPARTMENT WEB SITE FOR LIBYA EMBASSY, MALAYSIA

MOHAMED ELHADI M. SHARIF

UNIVERSITY UTARA MALAYSIA

2009

EDUCATIONAL DEPARTMENT WEB SITE FOR LIBYA EMBASSY, MALAYSIA

A dissertation submitted to the Faculty of Information Technology

In partial fulfillment of the requirement for the degree

Master of Science (Information Technology)

University Utara Malaysia

By

Mohamed Elhadi M. Sharif

April 2009

Abstract

The educational department of the Libyan embassy in Malaysia website playing major rule in different fields that explore and become important economic, commerce, military, health, education, diplomatic Etc.

On the other hand many embassies in several countries facing difficulties in accessing organizing and collecting the data related to students specifically the register student in education department of the Libyan embassy in Malaysia, So I studied design website the educational department Libyan embassy in Malaysia, and is interested in opening a file for the student follow-up to the most important news of the educational department, to insert some data, File Number, Student Name, Libyan Address, Phone Number, Support Direction, Current Institution, Scientific Grade, Major, Start Study, End Study, Malaysian Address and Mail's Student,, also if there is any problem in the area of study a student can send a message to the educational department website or the consulted educational department e-mail for the consideration and resolution as soon as possible.

Acknowledgments

In the name of Allah

I would like to express my appreciation to Allah, The most merciful, the most compassionate who has granted me the ability and willing to start and complete this study. I do pray to his greatness to inspire and enable me to continue the work for the benefits of humanity. My most profound thankfulness goes to my supervisor Dr Kang Eng Thye for his scientifically proven and creativity encouraging guidance. I wish specially to thank all my dearest family members, lecturers, and friends for their patience and understanding during this challenging time.

Thank you all

Table of Contents

CHAPTER ONE

INTRODUCTION 1
- **Problem Statement** 2
- **Research Objectives** 4
- **Scope** 4
- **Significant of Study** 4
- **Report structure** 5

CHAPTER TWO

LITERATURE REVIEW 6
- **2.1 Introduction** 6
- **2.2 Internet** 6
- **2.3 Web Services** 7
- **2.4 Educational Department Web Developed** 9
- **2.5 Summary** 10

CHAPTER THREE

RESEARCH METHODOLOGY 11
- **3.1 The Systems Development Life Cycle** 11
  - **3.1.1 Planning**: 12
  - **3.1.2 Requirement Gathering And Analysis:** 13
  - **3.1.3 Design:** 13
  - **3.1.4 Build Or Code:** 13

CHAPTER FOUR

SYSTEM DESIGN AND RESULT 15
- **4.1 List of Requirements** 15
  - **A. FUNCTIONAL REQUIREMENTS** 16
  - **B. NON-FUNCTIONAL REQUIREMENTS** 17
- **4.2 Use case diagram** 18
- **4.3 Use Case Description** 20

4.4 Sequence Diagram 41
4.5 Database Design 52

CHAPTER FIVE

DISCSSING OF RESULT 54
5.1 Implementation 54
5.2 Interface design for the system 54
5.3 Testing 66
5.3.1 Software Testing 67
5.3.2 Usability Testing 69

CHAPTER SIX

CONCLUSION 70
6.1 Project's Summary 70
6.2 Limitation 71
6.3 Future Work 71

References

Reference 72

APPENDIX

Appendix A 75
Appendix B 77

List of Figures

Figure 3.1: Model of the Systems Development Life Cycle 12

Figure 4.1: Use Case Diagram 19

Figure 4.2: Student Login Use Case 20

Figure 4.3: View Sites Use Case 22

Figure 4.4: Manage Attachments Use Case 24

Figure 4.5: View Important Sites Use Case 25

Figure 4.6: View Announcements Use Case 27

Figure 4.7: Open Files Use Case 29

Figure 4.8: Admin Login Use Case 30

Figure 4.9: Sites Edit Use Case 33

Figure 4.10: Attachments Edit Use Case 34

Figure 4.11: Important Sites Edit Use Case 36

Figure 4.12: Announcements Edit Use Case 38

Figure 4.13: Open Files Edit Use Case 39

Figure 4.14: Sequence Diagram (View Sites Insert & Update Use Case) 42

Figure 4.15: Sequence Diagram (View Sites Select & Delete Use Case) 43

Figure 4.16: Sequence Diagram (Manage Attachments Insert & Update Use Case) 44

Figure 4.17: Sequence Diagram (Manage Attachments Select & Delete Use Case) 45

Figure 4.18: Sequence Diagram (View Important Sites Insert & Update Use Case) 46

Figure 4.29: Sequence Diagram (View Important Sites Select & Delete Use Case) 47

Figure 4.20: Sequence Diagram (View Announcements Insert & Update Use Case) 48

Figure 4.21: Sequence Diagram (View Announcements Select & Delete Use Case) 49

Figure 4.22: Sequence Diagram (Open Files Insert & Update Use Case) 50

Figure 4.23: Sequence Diagram (Open Files Select & Delete Use Case) 51

Figure 4.24: Announcements Table 52

Figure 4.25: Important Sites Table 52

Figure 4.26: Open File Table 53

Figure 4.27: Sites Table 53

Figure 4.28: Attachments Table 53

Figure 5.1: Main Page 54

Figure 5.2: Open File View Page 55

Figure 5.3: Open File Edit Page 56
Figure 5.4: Open File Insert Page 57
Figure 5.5: Open File Update Page 58
Figure 5.6: Consulted Word Page 58
Figure 5.7: Mail of Consulted Page 59
Figure 5.8: Address Education Department Page 59
Figure 5.9: Sites View Page 60
Figure 5.10: Sites Edit Page 60
Figure 5.11 Important Sites View Page 61
Figure 5.12: Important Sites Edit Page 61
Figure 5.13: Announcements View Page 62
Figure 5.14: Announcements More View Page 63
Figure 5.15: Announcements Edit Page 63
Figure 5.16: Attachments View Page 64
Figure 5.17: Attachments Edit Page 64
Figure 5.18: Link Important Sites 65
Figure 5.19: Links Sits 66

CHAPTER ONE

INTRODUCTION

1.1 Introduction

In recent years, rapid growth in the volume of data and increasing user requirements, as these regulations no longer deal with the growing volume of data and user requirements. As information is increasingly created, processed, and manipulated, the role of large-scale enterprise storage systems becomes increasingly important. One of the characteristic features of our age is the information society, than means the large number information system is caused (Emejanov, 2002). As information is increasingly created, processed, and manipulated in digital form, the role of large-scale enterprise storage systems becomes increasingly important (Sundaram, 2006). Subsequently, to address this drawback, recent efforts have focused on automating the task of detecting hotspots and triggering data migration to alleviate them.

The Internet has become an ordinary and widely accepted alternative social environment-known as cyberspace-in which many people take part in numerous activities (Barak, 2008). The Internet has had a revolutionary impact on culture, communication and economic development around the world. In their efforts of using this powerful technology as a means for leapfrogging and bridging the gaps with developed nations (Xue, 2005). The Internet is rapidly expanding into the world of commerce and communication media. The students in many different college majors, including CS and CIS, have an increasing desire to learn more about the Internet and what, where, when, why and how it is used (Hufford, 2001).

The contents of the thesis is for internal user only

Reference

Alan Dennis, B. H. (2003). *Systems Analysis & Design with Uml (Wie).*

Almna, S. A. (April/2008). *http://culturalaffairs.libyanembassy.org.uk/lca08/1/main_content/kalemt_mostashar.htm.*

Asif, M. M., & Dragnea, R. (2007). *Hosting Web Services on Resource Constrained Devices.*

Azy Barak, Y. S. (2008). *Internet use and personal empowerment of hearing-impaired adolescents.*

Blanchard, B. S. (2006). *Systems engineering and analysis* (4 ed.). New Jersey: Prentice Hall.

Blanchard, B. S. (2006). *Systems engineering and analysis* (4 ed.). New Jersey: Prentice Hall.

Chan, P. P. (2008). *Dynamic Web Service Composition: A New Approach in Building Reliable Web Service.*

Chen, & H. G. (2005). *A framework for application server based Web services management.*

Cummings, H. (2006). *Management Information Systems for the Information Age.* Toronto, McGraw-Hill Ryerson .

Danylova, O. M., Synytsya, K., & Voychenko, O. (2004). *Information portal "Our School": a case study of IT introduction into education in Ukraine.*

Diego Zuquim Guimarães Garcia, M. B. (2006). *Semantics-enriched QoS policies for web service interactions.*

Elliott, G. (2004). *Global Business Information Technology.*

failures, E. s. (1999). *Experimental study of Internet stability and backbone failures.*

Hrsg.: Sundmacher, K. K. (2007). *Analysis, Simulation, and Control. Wiley-VCH, Weinheim.*

Hufford, K. D. (2001). *CS265 web network and web site management development of a core course in the Internet technology minor curriculum.*

Hung, P. C., & Carminati, B. (2004). *Towards Standardized Web Services Privacy Technologies.*

Junping, & W. X. (2007). *Risk Control and Estimation of Online Services Market Segmentation.*

Kamaljeet, S. C. (2003). *User attributes in Web-based electronic service adoption model (e-sam).*

Kargar, M. J., Noor, S., & Ibrahim, H. (2007). *An extensive review on accessing quality information.*

Keiichi Endo, M. K. (2006). *A proposal of encoded computations for distributed massively multiplayer online services.*

Konopnicki, D. S. (1996). *Early experience with W3QS-a WWW information gathering system.*

Koscianski and Soares Koscianski, A. S. (2007). *M.S. Software Quality* (second ed.).

Landqvist, F. S. (2006). *Portal Information Integration and Ownership Misfits: A Case Study in a Tourism Setting.*

Li, C.-S., Smith, J. R., Chang, Y.-C., Topol, B., Hind, J., & Li, Y. (2000). *Distributed application service for Internet information portal.*

Li, Y. (2000). *Distributed application service for Internet information portal.*

Liu, & W. C. (2006). *WIP: Web Service Initiation Protocol for Multimedia and Voice Communication over IP.*

Marco Crasso, A. Z. (2008). *Easy web service discovery: A query-by-example approach.*

Ni, D. M., & Wang, J. (1999). *System scaling for large-scale Internet-based online services.*

Pola, G. v. (2004). *Bisimulation theory for switching linear systems. In Proceedings of CDC.*

Post, G. &. (2006). *Management information systems: Solving business problems with information technology* (4 ed.). New York: McGraw-Hill Irwin.

Poynder, R. (1998). *Online engineering information.*

Rayhan, C. T. (2003). *Enterprise Java with UML (OMG).*

Robert Strazzarino, T. R. (2005). *Volunteerism: a new idea for filling university information technology needs.*

Rudd, M. &. (2001). *Darkness filling-in: a neural model of darkness induction. Vision Research.*

Schahram Dustdar, W. S. (2005). *A survey on web services composition.*

Shawn Bowers, L. D. (2002). *Enriching documents in an information portal using superimposed schematics.*

Thelwall, & M. (2002). *Evidence for the existence of geographic trends in university Web site interlinking.*

Wen-Yau Liang, C.-C. H.-F. (2007). *The design with object (DwO) approach to Web services composition.*

Wilson, B. a. (2001). *Constructivist learning on the Web », in L. Burge (Ed.), Learning Technologies : Reflective and Strategic Thinking.*

Wunnava, S. V. (1995). *Advances in Internet and interconnectivity of networks.*

Xu, Y. W., & Zhang, W.-b. (2008). *Research on a Computing Model for Internet Efficiency Index.*

Xue, S. (2005). *Internet policy and diffusion in China, Malaysia and Singapore.*

Zhilin Yang, S. C. (2005). *Development and validation of an instrument to measure user perceived service quality of information presenting web portals.*