

IRAQI TOURISM INFORMATION RESOURCES (ITIR)

MOHAMMED A. AHMED ASMAIL

**UNIVERSITY UTARA MALAYSIA
FEBRUARY 2011**

IRAQI TOURISM INFORMATION RESOURCES (ITIR)

A project submitted to Dean of Postgraduate Studies and Research in partial
Fulfillment of the requirement for the degree
Master of Science (Information & Communication Technology)
Universiti Utara Malaysia

By
MOHAMMED A. AHMED ASMAIL

Copyright © Mohammad A., February 2011. All Rights Reserved



**KOLEJ SASTERA DAN SAINS
(College of Arts and Sciences)
Universiti Utara Malaysia**

**PERAKUAN KERJA KERTAS PROJEK
(Certificate of Project Paper)**

Saya, yang bertandatangan, memperakukan bahawa
(I, the undersigned, certifies that)

MOHAMMED A.AHMED ASMAIL
(804078)

calon untuk Ijazah
(candidate for the degree of) **MSc. (Information & Communication Technology)**


telah mengemukakan kertas projek yang bertajuk
(has presented his/her project of the following title)

IRAQI TOURISM INFORMATION RESOURCES (ITIR)


seperti yang tercatat di muka surat tajuk dan kulit kertas projek
(as it appears on the title page and front cover of project)

bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan
dan meliputi bidang ilmu dengan memuaskan.
(that this project is in acceptable form and content, and that a satisfactory
knowledge of the field is covered by the project).

Nama Penyelia
(Name of Supervisor) : **MADAM YUSSALITA MD. YUSSOP**

Tandatangan
(Signature) :  Tarikh (Date) : 27/2/2011

Nama Penilai
(Name of Evaluator) : **DR. FAUZIAH AHMAD**

Tandatangan
(Signature) :  Tarikh (Date) : 27/2/2011

PERMISSION TO USE

In presenting this project in partial fulfillment of the requirements for a postgraduate degree from Universiti Utara Malaysia, I agree that the University Library may make it freely available for inspection. I further agree that permission for copying of this project in any manner, in whole or in part, for scholarly purpose may be granted by my supervisor(s) or, in their absence by the Dean of Postgraduate and Research. It is understood that any copying or publication or use of this project or parts thereof for financial gain shall not be allowed without my written permission. It is also understood that due recognition shall be given to me and to Universiti Utara Malaysia for any scholarly use which may be made of any material from my project.

Requests for permission to copy or to make other use of materials in this project, in whole or in part, should be addressed to

Dean of Research and Postgraduate Studies
College of Arts and Sciences
Universiti Utara Malaysia
06010 UUM Sintok
Kedah Darul Aman
Malaysia

ABSTRACT

Iraq has been suspected to have weapons of mass destruction and thus have war with America for many years. This war build a very horrible image of this country but actually, there is no so-called “weapon of mass destruction” found after seven years. It is time for the American to withdraw its army from Iraq and also time for the public to know the real Iraq. Thus, this study will built an Iraq tourism website called the Iraqi Tourism Information Resources (ITIR) using Web2.0 to boost the tourism industry in Iraq because Tourism Industry is very important for the Iraq to rebuild its international image and generate the income to help rebuild its economy after the war. Waterfall methodology was used in this study.

ACKNOWLEDGEMENT

بِسْمِ اللّٰهِ الرَّحْمٰنِ
الرَّحِیْمِ

By the Name of Allah, the Most Gracious and the Most Merciful

First of all, I would like to thank Allah, for having made everything possible by giving me strength and courage to do this work.

I would also like to thank to my supervisor of this project, Yussalita bte Md. Yussop for the valuable guidance and advised. She inspired me greatly to work in this project, and her willingness to motivate me contributed tremendously to my project.

An honorable mention goes to my family, especially my father, mother and my brother for their understandings and supports to me in completing my higher education and this project, as well as to all my lecturers at the faculty of Information Technology. They have given to me all the information for completing the requirements of this study, especially to my evaluator Dr. Faudziah Ahmad for her advised. Without the help from all the people mentioned above, I would have faced many difficulties while doing this project.

Finally, I want to dedicate this research to my mother and my father

TABLE OF CONTENTS

PERMISSION TO USE	iii
ABSTRACT.....	iv
ACKNOWLEDGEMENT	v

CHAPTER ONE INTRODUCTION

1.1 Introduction.....	1
1.2 Problem Statement	4
1.3 Research Questions	5
1.4 Research Objective.....	5
1.5 Scope of the Study.....	5
1.6 Significance of the Study.....	5
1.7 Project Organization.....	6
1.8 Summary.....	7

CHAPTER TWO LITERATURE REVIEW

2.1 Introduction.....	8
2.2 General idea of the methodology	8
2.3 User Interface	9
2.4 Usability.....	9
2.5 Interactivity	10
2.6 Video Corporate	11
2.7 Database.....	11
2.8 Web 2.0.....	12
2.9 Forum.....	14
2.10 Summary.....	15

CHAPTER THREE
METHODOLOGY

3.1 Introduction..... 16
3.2 Research Methodology phases..... 17
3.3 Summary 21

CHAPTER FOUR
RESULTS AND FINDINGS

4.1 Result of Requirement 22
 4.1.1 Functional Requirement..... 23
 4.1.2 Non Functional Requirement..... 25
4.2 Result of Design..... 26
 4.2.1 Use Case Diagram..... 26
 4.2.2 Use Case Specification 27
 4.2.3 Sequence Diagram 36
 4.2.4 Collaboration Diagram..... 40
 4.2.5 Class Diagram 43
4.3 Result of Implementation..... 45
4.4 Result of Verification..... 46
 4.4.1 Result of the Usability Evaluation 49
4.5 Result of Maintenance 52
4.6 Summary 52

CHAPTER FIVE
PROTOTYPE

5.1 Introduction..... 53
5.2 Screenshots of the System Functionalities..... 53
 5.2.1 Home Page 54
 5.2.2 New Account 55
 5.2.3 Manage Category 56
 5.2.4 Manage Pages 58
 5.2.5 Manage User Account..... 60

5.3 Summary.....61

CHAPTER SIX

CONCLUSION

6.1 Introduction.....62

6.2 Research Limitation.....62

6.3 Recommended Works.....63

6.4 Summary.....63

References.....64

LIST OF TABLE

Table 2. 1 : Comparison of the Tourism Web 2.0 sites.....	14
Table 4. 1 : Functional requirement	23
Table 4. 2 : Non-functional requirement	25
Table 4. 3 : Use Case Login (UC_01)	27
Table 4. 4 : Use Case Manage Category (UC_02).....	29
Table 4. 5 : Use Case handle page (UC_03).....	30
Table 4. 6 : Use Case Manage User Account (UC_04).....	32
Table 4. 7 : Use Case Modify Admin Account (UC_05)	34
Table 4. 8 : Result of the Usability Evaluation.....	50

LIST OF FIGURE

Figure 3. 1 : The Waterfall Methodology.....	16
Figure 3. 2 : Components of ITIR.....	19
Figure 4. 1 : Use Case Diagram for ITIR	26
Figure 4. 2 : Sequence Diagram for login	36
Figure 4.3 : Sequence Diagram manage category.....	37
Figure 4. 4 : Sequence Diagram handles Pages	38
Figure 4. 5 : Sequence Diagram for logout.....	39
Figure 4. 6 : Collaboration diagram for login.....	40
Figure 4. 7 : Collaboration diagram for manage category.....	41
Figure 4. 8 : Collaboration diagram for page control.....	42
Figure 4. 9 : Class diagram login	43
Figure 4. 10 : Class diagram manage category	44
Figure 4. 11 : Class diagram page control.....	44
Figure 4. 12: Usability Attributes in Questionnaire	49
Figure 4. 13: Graph of the Usability Testing	51
Figure 5. 1 : Home page	54
Figure 5. 2 : add new member	55
Figure 5. 3: add new category.....	56
Figure 5. 4: Edit account.....	57
Figure 5. 5: Main page of the Category control.....	57
Figure 5. 6: add new page.....	58
Figure 5. 7: edit /delete pages	58
Figure 5. 8: show pages	59
Figure 5. 9: add new user.....	60
Figure 5. 10: Edit User	60
Figure 5. 11: Delete user account.....	61

CHAPTER ONE

INTRODUCTION

1.1 Introduction

Iraq, whose official name is the Republic of Iraq, is a country surrounded by Jordan, Syria, Iran, Turkey, Saudi Arabia and Kuwait. Its capital is Baghdad (Atlastours, 2010). It is one of the countries that have the longest history in the world. There are many famous tourism resources in this country, and the culture is more open than other Muslim Countries, so it is a very good choice for the tourists to pay a visit to Iraq.

It is a country located in Asia. It is a country with a long history and rich natural resources especially the petrol (King, 2009). Thus, it has very significant meaning to this world. In 2003, American said that Iraq has secret weapon, which could harm the safety of people in this world (Baker et al., 2006). Due to the report and promotion by the mass media in Western countries the image of Iraq has been labeled as a horrible country. Soon after, America and British lead a multinational coalition of forces and occupied Iraq (Haugen et al., 2009).

The contents of
the thesis is for
internal user
only

References

- Al-Yakoubi, Y. (2010). Eturbonews Iraq tourism. Slowly but surely. Retrieved November 19, 2010, from <http://www.eturbonews.com/19625/Iraq-tourism-slowly-surely>.
- Andre, T. S., & Schurig, M. (2007). *Advanced Usability Evaluation Methods. Ft. Belvoir*: Defense Technical Information Center. Retrieved January 3, 2011, from <http://www.stormingmedia.us/51/5190/A519074.html>.
- Baker, J. A., Hamilton, L., & Eagleburger, L. S. (2006). *The Iraq Study Group report*. New York: Vintage Books.
- Barnard, D. (2009). *iPhone user interface design projects*. New York: Apress.
- Boehm, B. W. (1988). A spiral model of software development and enhancement. *Computer*, 21(5), 61-72.
- Brownrigg, A., & Wang, X. (2006). *Research Methodology: Study Guide and Readings*. Melbourne: Deakin University.
- Budd, J. F., & Pennington, B. C. (1983). *Corporate video in focus: a management guide to private TV*. USA: Prentice-Hall.
- Bultan, T., Ferguson, C. & Xiang Fu. (2009, July 6-10). *A Tool for Choreography Analysis Using Collaboration Diagrams*. Paper presented at the IEEE International Conference on Web Services, ICWS, CA, USA. (pp. 856-863)
- Carlberg, S. (1991). *Corporate video survival*. White Plains, NY: Knowledge Industry Publications.
- Chi-Lun, L. (2010). Ontology-Based Conflict Analysis Method in Non-functional Requirements: *Proceedings of the 9th IEEE/ACIS International Conference on Computer and Information Science held on 18 August-20 August 2010 at the Kainan University, Taiwan* (pp. 491 – 496).
- Cooper, M. (2007). Accessibility of Emerging Rich Web Technologies: Web 2.0 and the Semantic Web: *Proceedings of the 2007 international cross-disciplinary conference on Web accessibility (W4A) held on 2007 at the University of Manchester, UK* (pp. 93-98).

- Di Giacomo, M. (2005). MySQL: lessons learned on a digital library Software. *IEEE*, 22(3), 10-13.
- DiZazzo, R. (1993). *Directing corporate video*. Boston: Focal Press.
- Ellis, D. (2009). *Children of war: voices of Iraqi refugees*. Toronto: Groundwood Books.
- Enjo, H., Tanabu, M & Iijima, J. (2009). A step toward foundation of class diagram algebra for enterprise service systems: *Proceedings of the 6th International Conference on Service Systems and Service Management held on 8 June 2010 at the Yokohama National University, Japan* (pp. 456-460).
- Espana, S., Condori-Fernandez, N., Gonzalez, A & Pastor, O. (2009). Evaluating the Completeness and Granularity of Functional Requirements Specifications: A Controlled Experiment: *Proceedings of the 17th IEEE International Requirements Engineering Conference held on 31 September 2009 at the Atlanta, Georgia, USA* (pp. 161-170).
- Ghaoui, C. (2003). *Usability Evaluation of Online Learning Programs*. Hershey, PA: Information Science Publishing.
- Gibson, B. (2007). Enabling an Accessible Web 2.0: *Proceedings of the 2007 international cross-disciplinary conference on Web accessibility (W4A), New York, NY, USA* (pp. 1-6).
- Haugen, D. M., Musser, S., & Lovelace, K. (2009). *Iraq*. Detroit: Greenhaven Press.
- Iqbal, M., & Rizwan, M. (2009). *Application of 80/20 rule in software engineering Waterfall Model*. Paper presented at the Information and Communication Technologies, 2009. ICICT '09. International Conference, Karachi. (pp.223-228)
- JinShan, Y., Tun, L., & QingPing, T. (2006). The Use of UML Sequence Diagram for System-on-Chip System Level Transaction-based Functional Verification: *Proceedings of the Sixth World Congress of the Intelligent Control and Automation held in Dalian 2006* (pp. 6173 – 6177).
- King, S. J. (2009). *The new authoritarianism in the Middle East and North Africa*. Bloomington: Indiana University Press.

- Kohli, N., & Nishchal K. Verma. (2010). Performance issues of hospital system using MySQL: *Proceedings of the 3rd IEEE International Conference of the Computer Science and Information Technology held on 9 July-11 July 2010 at the Chengdu, China* (pp. 497 – 501).
- Lei, S., Bai, S., Liang. K., & Yan, Z. (2009). Web Forum Sentiment Analysis Based on Topics: *Proceedings of the 9th IEEE International Conference of Computer and Information Technology held on 11 October-14 October 2009 at the Xiamen, China* (pp. 148 – 153).
- Lili, H. (2009). The Role of Collaboration Diagrams in OO Software Engineering Student Projects: *Proceedings of the 22nd Conference of Software Engineering Education and Training held on 17 February-20 February 2009 in Hyderabad, Andhra Pradesh* (pp. 93 – 100).
- Li Li, H., & Chin, C. C. (2009). A Watermark Extraction Model to Enhance the Correlation of Digimarc Plug-ins in Photoshop: *Proceedings of the International Conference on Multimedia Information Networking and Security held on 18 November - 20 November 2009 at Hubei, China* (pp. 154-158).
- Li Li, X. F., & Li W. (2008). Enhancing the robustness of Digimarc digital watermarking plug-ins in photoshop: *Proceedings of the 11th IEEE International Conference of the Communication Technology held on 10 November-12 November 2008 at Hangzhou, China* (pp. 757 – 760).
- Lu, Z., Lu, J., & Zhang, C. (2002). Website development and evaluation in the Chinese tourism industry. *Networks and Communication Studies*, 16(3-4), 191-208.
- Lund, A. (1998, November 11). Introduction To the USE Questionnaire. Retrieved October 13, 2010, from <http://usesurvey.com/>.
- Mackey, A., & Gass, S. M. (2005). *Second language research: Methodology and design*: Lawrence Erlbaum Assoc Inc.
- Magel, K (1997). Is it too late to put the user back into HTML?: *Proceedings of the IEEE Computer Society Conference of Computer held on Dec 1997 at North Dakota State University, Fargo* (pp. 131–132).

- Meng, J., Gao, S. & Zhang, L. (2008). The Community Website Design Based on Complementary Advantages of Web2.0 and Web1.0: *Proceedings of the 4th International Conference of the Wireless Communications, Networking and Mobile Computing held on 12 October-14 October 2008 at Dalian* (pp. 1 – 4).
- Mohler, J. L. (2006). *Flash 8: graphics, animation, and interactivity*. Australia: Thomson/Delmar Learning.
- Na, Z. & Lei, F. (2008). Ontology-Based Automatic Feedback Design for the Learning Forum: *Proceedings of the International Conference on Advanced Computer Theory and Engineering held on 20 December – 22 December 2008 at the Capital Normal University, Beijing* (pp. 462 – 466).
- Nielsen, J. (1993). *Usability engineering*. Boston: Academic Press.
- Nielsen, J., & Loranger, H. (2006). *Prioritizing Web usability*. Berkeley, Calif.: New Riders.
- Noble, J. J. (2009). *Programming interactivity*. Beijing: O'Reilly.
- Qiao, L., Zhang, Y., Zhang, W., & Yao, L. (2009). *Application of GIS Technology in Chinese Tourism*. Paper presented at the Environmental Science and Information Application Technology, 2009. ESIAT 2009, Wuhan. (401-404).
- Powell, G. (2006). *Beginning database design*. Indianapolis, IN: Wiley.
- Redondo, M., Bravo, C., & Ortega, M. (2009). *Engineering the user interface from research to practice*. London: Springer.
- Richter, G. (2005). An Improvement of the PEG Algorithm for LDPC Codes in the Waterfall Region: *Proceedings of the International Conference of Computer as a Tool, EUROCON held on 21 November-24 November 2005 at the University of Ulm, Belgrade*. (pp. 1044 – 1047).
- Sengupta, S. & Bhattacharya, S. (2006). Formalization of UML use case diagram-A Z Notation Based Approach: *Proceedings of the International Conference of Computing & Informatics held on 6 June-8 June 2006 at Kuala Lumpur*. (pp. 1 – 6).

- Shi, L., Sun, B., Kong, L., & Zhang, Y. (2009). *Web Forum Sentiment Analysis Based on Topics*. Paper presented at the Computer and Information Technology, 2009. CIT '09. Ninth IEEE International Conference, Xiamen . (pp.148-153).
- Soares, F., & Muge, F. (2004). Watershed lines suppression by waterfall marker improvement and line-neighbourhood analysis. *Pattern Recognition, 1*, 604-607.
- Suyono, H., Nor, K. M., Yusof, S., & Rashid, A. H. A. (2006). Use-case and Sequence Diagram Models for Developing Transient Stability Software: *Proceedings of the IEEE International Conference of Power and Energy held on 28 November-29 November 2006 at Putra Jaya, Kuala Lumpur*. (pp. 109 – 113).
- Tsadimas, A., Nikolaidou, M., & Anagnostopoulos, D. (2009). Handling Non-functional Requirements in Information System Architecture Design: *Proceedings of the 4th International Conference of Software Engineering Advances held on 20 September-25 September 2009 at Porto, Portuguese*. (pp. 59 – 64).
- Tripp, C. (2002). *A history of Iraq* (2nd ed.). Cambridge: Cambridge University Press.
- Welling, L., & Thomson, L. (2001). *PHP and MySQL Web development* . Indianapolis, IN: Sams.
- Wolff, J. G. (2002). The management of risk in system development: Project SP and the New Spiral Model. *Software Engineering Journal, 4*(3), 134-142.
- Xie, N., Sun, X., Zhang, H., & Zhu, Y. (2010) Research on Case Teaching Method of Photoshop Course: *Proceedings of the International Forum of Information Technology and Applications held on 16 July-18 July 2010 at Kunming* (pp. 369 – 372).
- Zajicek, M. (2007). *Web 2.0: hype or happiness?* Paper presented at the '07 Proceedings of the 2007 international cross-disciplinary conference on Web accessibility, UK. (pp. 35-39).