E-Learning Environment For UUM English Course Based On Various Multimedia Tools

Al-Ghamdi, Abdulrahman Salem

Universiti Utara Malaysia

2009

E-Learning Environment For UUM English Course Based On Various Multimedia Tools

A Thesis submitted to college Arts & Sciences in partial

Fulfillment of the requirement for the degree master

(Information & communication Technology)

University Utara Malaysia

By

Al-Ghamdi, Abdulrahman Salem (89180)

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, certify that)

Al-GHAMDI, ABDULRAHMAN SALEM
(89180)

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

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

E-LEARNING ENVIRONMENT FOR UUM ENGLISH COURSE
BASED ON VARIOUS MULTIMEDIA TOOLS

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

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

Nama Penyelia Utama
(Name of Main Supervisor): **ASSOC. PROF. HATIM MOHAMED TAHIR**

Tandatangan
(Signature)   :

Tarikh
(Date)   :   29/4/09.

PERMISSION TO USE

In presenting this thesis of the requirements for a Master of Science in Information and communication Technology (MSc. ICT) 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 thesis in any manner, in whole or in part, for scholarly purposes may be granted by my supervisor or in their absence, by the Dean of Graduate School. It is understood that any copying or publication or use of this thesis 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 thesis.

Request for permission to copy or make other use of materials in this thesis, in whole or in part, should be addressed to:

Dean of Graduate School

Universiti Utara Malaysia

06010 Sintok

Kedah Darul Aman

ABSTRACT

E-learning is similar to E-training, that has gained significant popularity and it is expected to continue in the future. E-learning is a multi-dimensional activity where each dimension should be most organization adequately supported by an E-learning system to provide fruitful learning materials to those are interest to read by online, a new experience for most users. the main problem that facing the students with the current learning system for the English course, most of the student incapable to interact with the current learning facilitates, which manage manually by the lecturers, otherwise the student incapable to practice the different technology to enhance their ability during the learning. The main objective of the project is to identify the requirements for Web-based Learning System (WLS) for UUM English Course. Moreover, the proposed web application has been tasted based on the usability, the UUM students agreements for using this system which was (Mean =4.79) by 25 students from UUM.

ACKNOWLEDGEMENT

TABLE OF CONTENTS

CHAPTER ONE

CHAPTER TWO

CHAPTER THREE

CHAPTER FOUR

CHAPTER FIVE

DISCUSSION OF RESULT

CHAPTER SIX

CONCLUSION

LIST OF TABLES

LIST OF FIGURES

CHAPTER ONE

INTRODUCTION

1.1 Introduction

Nowadays, information can be accessed at the corner of the room by the innovation and advancement of on-line web-based technology. UUM learn care is an excellent example of web-based learning as students can get their lecture materials from the learn care web site. E-learning is learning that involves the acquisition, generation and transfer of knowledge using information and communications technology (ICT). Can be much more effective, and cheaper than more traditional learning methods, for example Jeffrey (2002); Jorge (2006), if a student has difficulty with a particular concept, the student may be required to revise the concept of form surrounding that, while a student who answers questions on the concept that with ease to move to the next concept immediately (Annuradha, 2005).

The contents of the thesis is for internal user only

REFERENCE

Atanas Rountev, O. V., & Miriam Reddoch (2006). Static control-flow analysis for reverse engineering of UML sequence diagrams. 31(1): 96 – 102.

Atle Refsdal, K. S. (2008). Extending UML Sequence Diagrams to Model Trust-dependent Behavior with the Aim to Support Risk Analysis. 197(2): 15-29

Annuradha, K. T. & Usha, H. S. (2005). Use of e-books in an academic and research environment: A case study from the Indian Institute of Science. Emerald Program Electronic Library and Information Systems 40(1), 48-62, from (www.nlj.org.jm/acuril/papers/Tuesday/Nicholas_White.pdf).

Bailey, T. P. (2006). Electronic Book Usage at a Masters Level I University: A Longitudinal Study. The Journal of Academic Librarianship, 32(1), 52-59, from (www.library.nuigalway.ie/coxebooks.pdf).

Bahrami, A. (1999). Object Oriented System Development, McGraw-Hill, United States of America.

Band, J. (2006). The Google Library Project: The Copyright Debate. OITP Technology Policy Brief, from (www.library.nd.edu/instruction/svcsteaching/documents/yahoogle-handouts-pvc-012406.pdf).

Barb G. (2007), e-books: Search and Download in the Life Sciences, SLA Conference Denver, Colorado, USA.

Belanger, J. (2007). Cataloguing e-books in UK higher education libraries: Report of a survey. Emerald Program Electronic Library and Information Systems, from

(www.managing-information.com/milite/pdfs/mi%20jan-feb%2008%20low%20res.pdf).

Bolliger, D. (2003). The Design and Field Test of a Web-Based Training Program for Future School Lecturers in a Northwest Florida School District. The Journal of Interactive Online Learning.

Bennett, S., McRobb, S., & farmer, R. (2002). Object-oriented System Analysis and Design 2nd Edition. UK, McGraw Hill.

Betty H. C. Cheng, J. M. A. (2007). Research Directions in Requirements Engineering, from (www.ru.nl/aspx/download.aspx?File=/contents/pages/141611/rujvonderzoek07.pdf).

Carriere, S. & Kazman V. (2005). Advances in Internet and interconnectivity of networks, from (www.strategicstudiesinstitute.army.mil/pdffiles/pub755.pdf).

Craig, A., John, D. (2004). Creating Web Services Using Asp.Net, CCSC: Rocky Mountain Conference, 2004, from (www.ccsc.org/board/minutes/Fall03Minutes.pdf).

Cox, K. T. P. (2007). Practical experience of eliciting classes from use case descriptions, from (www.bournemouth.ac.uk/ssrc/publications/ssrc_publications.pdf).

Clancey W. (2002). Simulating activities: relating motives, deliberation, and attentive coordination. Cognitive Systems Research 3, 471-499.

Clark R., & Mayer R., (2007). E-Learning and the Science of Instruction. 2nd edition. San Francisco: Pfeiffer.

Davis, A.M. (1993). Software Requirements: Objects, Functions & States. Englewood Cliffs, NJ: Prentice Hall, from (www.ida.liu.se/labs/aslab/people/joaka/re_bib.html - 39k).

Dennis, A., Wixom, B.H., & Tegarden, D. (2005). System analysis and design with UML version 2.0: an object-oriented approach with UML, 2nd edition. Hoboken, NJ: John Wiley and Sons, Inc.

Dias. F. G, E. A. S., M. L. M. Campos, A. L. Correa, A. J. Alencar (2008). Elaboration of use case specifications: an approach based on use case fragments, form (www.scribd.com/doc/3485579/Toc).

Digital E-books (2009). Write and Publish Digital Ebook Products, retrieved on 7 Feb 2009.

E-learning (2008). E-learning information advantages. Retrieved on 5 Jan 2009, from (http://www.leftbrainmedia.com/e_advantages.html).

E-Learning Advantages and Disadvantages (2009). What are e-learning advantages and disadvantages?, retrieved on 24 Jan 2009.

E-learning information advantages (2009). Retrieved on 21 Jan 2009, from (http://www.leftbrainmedia.com/e_advantages.html).

Eriksson, H., & Penker, M. (1998). UML Toolkit. USA, John Wiley & Sons, Inc. Foster I., Jennings N. & Kesselman C. (2004). Brain meets brawn: Why grid and agents need each other,Proceedings of AAMAS'04, New.York: ACM.

George C. & Scerri J. (2007). User-Generated Content Online: Legitimate power or the Wild West?.BELET a annual conference Hertfordshire.

Hughes (1993). Dynamic web-based application development. New York: Prentice Hall. From (www.medwelljournals.com/fulltext/ajit/2005/1131-1136.pdf).

Hoffer, J. A., George, J. F & Valacich, J. S. (1999). Modern Systems Analysis and Design (2nd Edition). United Kingdom : Addison Wesley Longman.

Hoffer, J. A., George, J. F & Valacich, J. S. (2002). Modern Systems Analysis and Design (3rd Edition). Upper Saddle River, New Jersey: Prentice Hall.

Introduction to Microsoft .Net Platform (2008).Microsoft Internet Explorer, Accessed on 22 April 2008, (http://www.asp101.com/articles/nakul/intronet/default.asp).

Jacobson, I., Christerson, M., Johnsson, P. & Overgaars, G. (2004). Object-oriented Software Engineering: A Use Case Driven Approach (revised). Harlow, England: Addison-Wesley.

Jeffrey, S. (2002). An Interactive Web-Site for Distance Learning Students, from (www.au.af.mil/au/aul/bibs/distancelearn.htm).

Jorge, F., Sandra, R., & Roseli, D. (2006). Computer Graphics, Interactive Technologies and Collaborative Learning Synergy Supporting Individuals' Skills Dvelopment, from (www. portal.acm.org/citation.cfm?id=261190).

Kalata, K. (2005). Introduction to ASP.NET, Boston: Thomson: Course Technology, from (www.isedj.org/isecon/2007/2314/ISECON.2007.Kohun.txt - 17k).

Knight A. & Dai, N. (2002). Objects and the Web. IEEE Software. March/April 2002, pp.51-59. IEEE. Lecturers in a Northwest Florida School District. The Journal of Interactive Online Learning.

Lamsweerde, A. v. (20004). Requirements engineering in the year 00: a research perspective, from (www.info.ucl.ac.be/Research/Publication/2000/icse2000-avl.pdf).

Mohammad, A., Peter D., & Wolfgang, N. (2006). Learner Profile Management for Collaborating Adaptive e-learning Applications, from (www.l3s.de/ar/L3S_AnnualReport2006.pdf).

Mika, P., Petri, M., & Laura, T. (2004). Student-Centered Concept Development Process for Emerging Technologies, from (www.ifets.info/journals/5_4/renate.html).

Michael, E., & Jens B. (2007). Instructional Design of a Programming Course- A learning Theoretic Approach, from (portal.acm.org/citation.cfm?id=1288580.1288595).

Myles, F., & Jorma T. (2000). Using the WWW as the delivery mechanism for interactive, visualization- based instructional modules, from (www.uwosh.edu/faculty_staff/naps/vita.pdf).

Ohler J. (2001). Taming the Technological Beast: The Case of the E-Book. The Futurist, pp. 16-21.

Omnexus (2009), e-training Courses Agenda, retrieved on 20 Jan 2009, from (http://www.omnexus4adhesives.com/services/etrainings.aspx).

Quint, B. (2004) Google and Research Libraries Launch Massive Digitization Project. Information today, from (https://bora.uib.no/bitstream/1956/1832/1/MikkiStangeland.pdf).

Panangiotis, Z. (2004). Usability and e-learning: the road towards integration, from (www.citeulike.org/user/yiweicao/watchlist).

Paul, D. (2006). Fundamentals VB.NET retrieved 13 Sep 2008 from (http://pdsa.com/Download/eBook/Preview_57.pdf).

Rubin, J. (2004). Handbook of Usability Testing: How to Plan, Design and Conduct Effective Tests. London: John Wiley & Sons, from (www.cs.uta.fi/usabsem/lukemisto.html - 44k).

Releases faculty survey. (2007). Ebrary Library Journal/Academic Newswire. Retrieved May 12, 2008, from http://www. libraryjournal.com/info/CA6499082.html.

Rabelani, D. (2004). E-learning Strategies and Tools in the Corporarte. Training Environment, from (www.editlib.org/index.cfm/files/paper_20398.pdf?fuseaction=Reader.Download FullText&paper_id=20398).

Ruth, D. (2004). Usability Evaluation of an E-Learning Tutorial: Criteria, Questions and Case Study, from (saicsit.cs.uct.ac.za/SAICSIT-final.doc).

Roy T. & Richard N. (2002). Principled Design of the Modern Web Architecture. ACM Transactions on Internet Technology.

Silva, P.P.D. & Paton, N.W. (2003). UML: The Unified Modeling Language for Interactive Applications.

Schmuller, J. (2002). SAMS Teach Yourself UML in Hours . SAMS Publishing, Indiana.

Stephen M. & Geoff M. (2004). Applying SPICE to e- Learning: An e- Learning Maturity Model, from www.ascilite.org.au/conferences/brisbane05/stephenmarshallwkshp.doc).

Stephen T., Andrew P., & Thom D. (2002). E-learning-Making it happens now, from(www.sagepub.co.uk/repository/binaries/bookSellers/AI/5031SEASONAL_ Sept05-Feb06.pdf).

Torner. F, M. I., M. Ivarsson, F. Pettersson, P. Öhman (2006). Defects in automotive use cases, from (www.cedes.se/publications.html).

U.S House of Representative (1999). Systems Development Life Cycle, pp. 1-12.

Ventures Education Systems Corporation (2008). Specialized high efficiency: management web sites for school systems, retrieved on 6 Jan 2009, from (http://www.vesc-education.com/).

Vaishnavi, V. & Kuechler, B. (2004). Design Research in information system. Retrieved 1 Jan 2009, from (http://www.isworld.org/Researchdesign/drisISworld.htm).

Wagner, T. (2007). ebrary Announces Live Web-based Training Program, Palo Alto, CA, from (www.ebrary.com/corp/newspdf/ebrary_training.pdf).

Xu, D. and Xu, W. (2006). State-based incremental testing of aspectoriented programs. Proctor the Fifth International Conf. on Aspect-Oriented Software Development (AOSD'06), pp. 180- 189, Bonn, Germany, March 2006, from (www.resist-noe.org/Publications/Deliverables/D13-Research_Agenda.pdf).

Zerzelidis, A., &. Wellings, A. (2005). Requirements for a Real-Time .NET Framework, Feb 2005, ACM, from (www.informatik.uni-trier.de/~ley/db/journals/sigplan/sigplan40.html).

Zhargetal, D.J. Zhao, L., Zhou, L.F. Nunamaker, J. (2004). Can e-learning replace. classroom learning. Communications of the ACM, from (www.isedj.org/isecon/2007/2543/ISECON.2007.Zhang.ppt.