IMPLEMENTING THROWAWAY PROTOTYPING IN WEB DEVELOPMENT LIFE CYCLE

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IMPLEMENTING THROWAWAY PROTOTYPING MODEL IN WEB DEVELOPMENT LIFE CYCLE (WDLC)

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A project report submitted in partial fulfillment of the
requirements for the award of the degree of
Master of Science
(Computer Science – Real Time Software Engineering)

Centre for Advanced Software Engineering
Faculty of Computer Science and Information System
Universiti Teknologi Malaysia

OCTOBER 2009

To my beloved Mama and Yaya
Kakak, Abang Rostam, Abang Nazri, Kakak Nini,
Abang Atoi, Surya, Adik Lela, Moin
Udin, Sofeyah
Late Panda

Jazakumullah

ACKNOWLEDGEMENT

All praise is to Allah azza wa jalla, as laid upon me always your grace and mercy for giving me the greatest gift of all, the gift of *Imaan*. I am hoping and praying that this project may benefit ummah as a whole and make me a better person and vicegerent in this world.

I am very thankful to my academic mentor Mr. Ridzuan bin Ahmad for his endless supports and advices. He had help and gave me privileges, which made me under solace and content throughout the completion of this project. I also want to give my appreciation to Mr. Saiful Adli for helping me and lending his valuable expertise and experience where I cannot get it elsewhere. Regardless of their status, they will always be good friends and teachers of mine and may Allah bless them always.

To my best friend and mentor as well Mr. Faiz Bashir for his endless helps and assistance from the very first day we've met until the day he departed to his home country. I will always admire you and always be my source of inspiration to be a good Muslim.

Last but not least, my appreciation to all people that had helped and inspired me throughout this journey. *Jazakumullahu khaira katheera*

ABSTRACT

The purpose of this study is to analyze the relationship between web development life cycle (WDLC) and system development life cycle (SDLC). Even though the two terms WDLC and SDLC are similar in a sense that both discuss about development lifecycle but they have differences in term of its scope. From the term WDLC itself has shows that it is focusing on website development meanwhile SDLC is focusing on software at large. Website can be considered as a subset of software. Therefore, the study is about analyzing how far WDLC relevancy compares to SDLC. SDLC comprises of methodologies such as structured development, rapid application development, and agile development. In each methodology comprises of many SDLC models which complying with specific software development trends. Hence by analyzing typical website development trends and characteristic will allows to identify the suitable SDLC model. Introducing the model only will not sufficient if there is no guideline of how to apply it. Therefore the study also covers the implementation of the model with the web development processes.

ABSTRAK

Objektif daripada kajian ini adalah untuk menganalisis hubungan antara kitaran hidup pembangunan Web (WDLC) dan kitaran hidup pembangunan sistem (SDLC). Walaupun kedua istilah SDLC WDLC dan mirip dalam erti bahawa keduanya membahas tentang kitaran pembangunan tetapi mereka mempunyai perbezaan dalam hal rinciannya. Dari istilah WDLC sendiri telah menunjukkan bahawa ia fokus pada pengembangan laman web Sementara itu SDLC fokus pada perisian pada umumnya. Website boleh dianggap sebagai sebahagian daripada perisian. Oleh kerana itu, kajian ini adalah tentang menganalisis seberapa jauh perkaitan WDLC berbanding dengan SDLC. SDLC terdiri daripada metodologi pengembangan seperti berstruktur, pengembangan aplikasi yang cepat, dan pembangunan tangkas. Dalam setiap metodologi SDLC terdiri daripada banyak model-model yang sesuai dengan tren pembangunan perisian tertentu. Oleh kerana itu dengan menganalisis tren pembangunan laman khas dan karakteristik akan membolehkan anda mengenalpasti model SDLC yang berpadanan. Memperkenalkan model sahaja tidak akan memadai jika tidak ada garis panduan tentang bagaimana menerapkannya. Oleh kerana itu, kajian ini juga merangkumi pelaksanaan model dengan proses pembangunan web.

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LIST OF ABBREVIATION

ACM	-	Association for Computer Machinary
CASE	-	Computer Aided Software Engineering
CERN	-	European Organization for Nuclear Research
CMMI	-	Capability Maturity Model Integration
CMS	-	Content Management System
CS 3	-	Creative Suite 3
CSS	-	Cascadding Stlye Sheets
DSDM	-	dynamic system development method
ERP	-	Enterprise Resource Planning
FTP	-	File Transfer Protocol
GIMP	-	GNU Image Manipulation Program
GUI	-	Ghraphical User Interface
HCI	-	Human Computer Interaction
HTML	-	Hyper Text Markup Language
IEEE	-	Institute of Electricals and Electronic Engineers
JAD	-	Joint Application Development
Lorum Ipsum	-	Text Filler or Dummy Text Content
MySQL	-	Simple Query Language
PHP	-	Personal Home Page / PHP :Hypertext Preprocessor
RAD	-	Rapid Application Development
RSS	-	Really Simple Syndication
SAP	-	System Analysis and Program Development
SDLC	-	Software Development Life Cycle
SEO	-	Search Engine Optimization
URL	-	Uniform Resource Locator
WCMS	-	Web Content Management System
WDLC	-	Web Development Life Cycle

WWW	-	World Wide Web
WYSIWYG	-	What You See Is What You Get
XML	-	Extension Markup Language
XP	-	Extreme Programming

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CHAPTER 1

INTRODUCTION

1.0 Problem Background

In today's development, there is no a ground rule or guideline which we can be followed in developing static website. Even though the process of the web development has similarities with the process in conventional software development life cycle (SDLC) model, still there is a need to have a well tailored or dedicated approach for web development based on specific requirement.

The term of web development life cycle (WDLC) that is used by many web developer can be misunderstood in term of its scope. Some of them understand WDLC as a new model of SDLC. Some of them understand it as new methodologies in WDLC. Moreover, some of them even understand it as a whole new study of SDLC because of its general term of WDLC itself.

Despite of the issues, the idea behind WDLC is to design a specific approach for web development especially for static web development. The approach may not be a whole new model of SDLC but it may be a derivation of SDLC model that implies with the typical process of web development life cycle.

The approach is based on the current technology and may be varies in the future. As for today, the widely used of web content management system (CMS), advanced web authoring tools that can ease the process of prototyping to implementation phase are major contributing factors of why this approach is introduce at the first place.

Therefore, it is necessary to understand SDLC which includes the methodologies and the models inside each of them. Moreover it is also important to understand the website characteristic and its type such as static website and dynamic website. Furthermore, understanding the latest and conventional development process trends is also important as it will identifies the technologies involves in it. Hence, the information will help to determine the appropriate model of SDLC and therefore can be derived according to web development life cycle trends.

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