UNIVERSITI TEKNOLOGI MARA

DEVELOPMENT OF WEB BASED PROJECT MONITORING SYSTEM (PMS) USING MVC DESIGN PATTERN

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Report submitted in partial fulfillment of the requirements for the degree of

Master of Science (Information Technology)

Faculty of Computer And Mathematical Sciences

January 2014

ABSTRACT

This thesis research mainly focus on the development of Web Based Project Monitoring System (PMS) using MVC Design Pattern for Dynareka Sdn Bhd. It studies the development of a web-based using MVC design pattern which help researchers in better understanding about MVC Design Pattern where it separate an application into three major components which are; models that includes the main functionality, views that represent the user interface and controllers that control the updates to views. The benefit of MCV design pattern it also helps the developer to write code in better organized, maintainable and this pattern extensively tested over multiple languages and generations of programmers. Basically this thesis research has three objectives that need to be achieved. The first objective is to identify and analyze the requirements for PMS. The second and third objectives are to design the PMS based on MVC design pattern and to develop PMS based on MVC design pattern. This thesis research as a solution to the problems occurs in project monitoring especially in preparing progress report to the clients. By providing PMS, users can monitor the project progress easily and help to manage the information involved during the project monitoring. As the result, this project helps to increase the quality of project monitoring activities ,client satisfaction and for system enhancement, it also help the future developer be more understanding on the design and development phase in this system because the MVC design pattern is applied on those phases. However, some enhancement on Project Monitoring System is needed such as providing the intelligent Project Dashboard, notification email to the client, enhance PMS to mobile version and others to ensure PMS able in providing better services and also be more effective and interactive webpage.

Keywords: Project Monitoring System (PMS) , Model-View-Controller (MVC).

ACKNOWLEDGEMENT

"In the name of ALLAH S.W.T. the Most Beneficent and Most Merciful"

First and foremost, Alhamdulillah, I am so grateful to Allah s.w.t for His the blessing as I finally completed this final semester project for SYS 798. Upon this opportunity, I would like to acknowledge those people who directly or indirectly involved in supporting and helping me throughout my research. For my supervisor, Dr. Natrah Abdullah @Dollah, I am so happy and really appreciate her support, advices, willingness and her patience in guiding me to complete my thesis. I would also extend my appreciation to my lecturers who have guided and coordinated SYS 798 (IT Project) and SYS704 (Research Methodology For Information Technology) , Assoc. Prof Jasber Kaur a/p Gian Singha and Dr. Wan Abdul Rahim Bin Wan Mohd Isa. Besides that, I also would like to express my thanks to Ms. Marina Binti Hj Ahmad Bajari (Director of Dynareka Sdn Bhd), Mr. Shahrizal Abd Rahman (Senior Project Engineer), Mr. Lee Chi Fai (Sub contractor from Sri Council Development Sdn. Bhd) and Ms. Fauziah Sani, (Engineer from Syarikat Perumahan Negara Berhad , SPNB) who had spent their time to give me information for my thesis.

Not to forget I would also like to thank my dear families with their help, understanding and their continuous support through this journey of completing my thesis and their constant '*dua'* for the best in my success. Lastly, I want to thank all my friends both in master level and my colleagues in Panasonic.

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CHAPTER 1

INTRODUCTION

In this chapter, a brief description which consists of research background ,problems background ,project objectives, significances and scope of this project was also clearly presented.

1.1. Research Background

This research proposal is regarding Developing of Web Based Project Monitoring System (PMS) Using MVC Design Pattern for Dynareka Sdn Bhd. Dynareka Sdn Bhd was incorporated on 25th November 1993 and constantly since has been very active in multi discipline industries, such as telecommunication, civil & construction, electrical, engineering, manufacturing, landscape and maintenance. Dynareka Sdn Bhd is a 100% Bumiputra status in the operation and management of the company. Officially, Dynareka Sdn Bhd is registered and licensed in various work and service categories with Ministry of Finance, Pusat Khidmat Kontraktor, Tenaga Nasional Berhad, Construction Industry Development Board (CIDB), Celcom (Malaysia) Berhad, and Telekom Malaysia Berhad.

Project monitoring activity plays an important role in construction industry. This activity help prevent overdue projects from happening. This issue is not a new to construction arena but it is a problem that occurs from time to time. The Prime Minister of Malaysia once said that development's project should be complete within