UNIVERSITI TEKNOLOGI MARA

RIG MEMBERSHIP SYSTEM USING MVC-BASED FRAMEWORK

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ABSTRACT

The purpose of this thesis is to study the behaviour and the architectural pattern of Model View Controller based framework to implement for developing the web-based application of Research Interest Group membership system. The prototype to be developed will consist of the establishment, update, and upgrade process for Entiti Kecemerlangan (EK). Currently, the initial process of the group establishment must be reviewed by several entities to be approved and must prepare some documents to compile with. After the group has been established, whatever the next process is to be done, the documentation has to be prepared all over again. To understand the requirement and the flow process of the system, System Development Life Cycle (SDLC) has been used for analysing and developing the system. The implementation of Laravel framework in developing the prototype will increase the efficiency of the current system with the documentation and details of the member to be more well organised.

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CHAPTER 1

INTRODUCTION

This chapter provides the background and rationale for the study. It also gives details about the significance of membership system for Research Initiative Group (RIG) for Universiti Teknologi Mara (UiTM).

1.1 Background of Study

Web-based application is a client–server computer program which the client runs in a web browser. Nowadays, numerous web-based application has been developed as it been known for high reliability and usability, incorporate advanced technology, shorter product life cycle and required continuous maintenance (Rodriguez etc al, 2002). Websites are complex application that perform transaction, present real-time data, and provide interactive user experience. One of examples web application is the membership system or management system. Generally, it provides the functionality services to the association members such as storing and editing member information in database. Therefore, to develop web application that provide advanced functionality can be a complex task if starting from scratch for example using out-of-the-box Context Management System (CMS) (Spencer et.al. 2007). So, using web framework can minimize the effort as it can be served as a support or guide for building web application which also comes with a set of libraries for certain language to easy the usage and understanding of the process for developing web application. In this research, will conduct a study about web framework, Model-View-Controller architectural pattern for the developing the membership system for RIG in UiTM.