

**UNIVERSITI TEKNOLOGI MARA**

**DEVELOPMENT OF WEB BASED  
PROJECT PAYROLL  
MANAGEMENT SYSTEM USING  
QCUBED FRAMEWORK BASED ON  
MVC ARCHITECTURE FOR BURJ  
ASIA CORPORATION**

**AHMAD KAMAL BIN ABD AZIZ**

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## ABSTRACT

This thesis research mainly focus on the development of Web Based Payroll Management System (PMS) using Qcubed Framework based on MVC Architecture for Burj Asia Corporation. It studies the development of a web-based using Qcubed Framework and MVC Architecture 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. While it also help researcher in better understanding about development using Qcubed Framework where this framework consist of three main components which are; a code generator, QForm (Object Oriented Programming generated stateful Ajax- or server-processed webform), QQuery (Object Oriented Programming based SQL query). All of which can be used independently of each other. 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 objectives are to design PMS based on MVC architecture and third objectives are to develop the PMS based on Qcubed Framework. This thesis research as a solution to the problems occurs in payroll management especially in preparing payslip to the employee. By providing PMS, users can generate the payslip easily and help to manage the information involved during the payroll activity. As the result, this project helps to increase the quality of payroll management activities, employee and payroll clerk 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 Qcubed Framework and MVC design pattern is applied on those phases. However, some enhancement on Payroll Management System is needed such as providing the intelligent Payroll Dashboard, notification email to the employee, enhance PMS to mobile version and others to ensure PMS able in providing better services and also be more effective and interactive webpage.

*Keywords:* Payroll Management System (PMS) , Qcubed Framework, Model-View-Controller (MVC).

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