FTMK ACADEMICIAN MANAGEMENT SYSTEM (FTMK AMS)

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This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Database Management)

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DEDICATION

To my beloved parents
Hashim Bin Jamaluddin
Nurizan Binti Nuruddin

To my supervisor
Puan Rosleen Binti Abd Samad

Thank you for all your support and motivation.
ACKNOWLEDGEMENTS

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ABSTRACT

FTMK Academician Management System (FTMK AMS) is a management system that has been developed for Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka that to record participation of academician in any activities or program such as seminar, workshop, conference, research, publication and many more that provide from the university or others organization. The main problem is all activities or programs details that academician had participated has been captured by manually using a memo paper based approach that they must keep in by a folder file for each. Besides that, sometimes the academician have no more time to keep in by manually that cause of the redundant and inconsistent data. This method was less efficiency and will lead to many more problem when to generate a report for the faculty. Therefore, FTKM Academician Management System aims to solve the problem identified. This system consists of five modules which is user access control, record academician activities or programs, search information by title and year, backup and recovery and report generation. By the way this system applied system development methodology using Software Development Life Cycle. This system also implemented using MySQL as a Database Management System, Apache as a server and PHP as an interface.
ABSTRAK

FTMK Academician Management System (FTMK AMS) merupakan sistem pengurusan yang dibangunkan khas untuk Fakulti Teknologi Maklumat dan Komunikasi, Universiti Teknikal Malaysia Melaka bagi membantu ahli akademik dalam merekod mana-mana aktiviti atau program yang mereka telah serta seperti seminar, bengkel, persidangan, penyelidikan, penerbitan dan sebagainya yang dianjurkan oleh pihak universiti ataupun dari organisasi lain. Masalah utama ialah segala maklumat aktiviti atau program yang pernah disertai mestilah disimpan oleh ahli akademik tersebut melalui kertas-kertas memo yang diberikan ke dalam setiap fail yang ditetapkan. Selain itu, dalam merekodkan segala aktiviti yang telah dihadiri tersebut akan mengambil masa yang agak lama dan menyebabkan data tidak teratur dan berulang. Perkara ini mendatangkan masalah dalam penyediaan laporan untuk pihak fakulti. Oleh yang demikian, FTMK Academician Management System (FTMK AMS) bertujuan untuk menyelesaikan masalah yang telah dikenalpasti. Sistem ini mempunyai lima modul utama iaitu, kawalan capaian pengguna, merekod aktiviti ahli akademik, penyalinan dan sandaran semula data, mencari maklumat tentang aktiviti melalui tajuk dan tahun, dan menghasilkan laporan. Di samping itu, sistem ini menggunakan kaedah SDLC dan di implementasikan menggunakan MySQL sebagai pangkalan data, Apache sebagai pelayan dan PHP sebagai antaramuka pengguna.
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<td>BSM</td>
<td>Bahagian Sumber Marusia</td>
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CHAPTER I

INTRODUCTION

1.1 Project Background

The FTMK Academician Management System is a web based system that will make the management of the academician become more efficient. This system will overcome the entire problems that occur. FTMK Academician Management System is a project that had been developed for Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka. Every year, there are many more activities or programs that had been organize either in a national or international stage and also organize by the university.

Regarding the scenario stated above, it is important for Faculty of Information and Communication Technology to have one system that will keep track of the academician details and activities or programs that they had participated. Before this, there is no other system that is able to keep track of the academician details in activities or programs that had participated such as workshop or training, seminar, conference that organize by university or others organizer. It also can record about their research and publications of papers, books, journal and more. This system also record all about academician profiles, academic qualification, professional certificates, professional membership, expertise and course taught in more details.

FTMK Academician Management System is a system that will keep track of FTMK academician details in any activities or programs that had participated. Academician from Faculty of Information and Communication Technology will be
registered into the system to store their details of profiles and others qualification they have. Besides that, faculty will be able to determine (indirectly) either the activities or programs that academician had attended either organize by university or others organizer. This system is a web-based that can make more easily to academician for update their latest information through the internet.

1.2 Problem Statement

Every year, many activities or programs that academician had participated. Because of that, the academician must keep track the activities or programs by the memo that must be keep in the folder file. It make to difficult to find it when need a details of the activities or programs.

It also takes more times to check which activities or programs that they had participated as a reference for make any report if necessary. Therefore, the development of the FTMK Academician Management System is very important to make sure that faculty can evaluate their achievement and to solve the problem as stated above.

1.3 Objectives

Regarding to the problems explained before, the main goal of developing FTMK Academician Management System is to have one system that will keep track of academician’s participation in any activities or programs information. The objectives of the system are in section 1.3.1 until section 1.3.3.
1.3.1 Able to record academician details of activities and programs

This system will enable to academician record details of their activities or programs that they had participated such as seminar, conference, workshop, publication, research and others.

1.3.2 Able to keep track of academician activities or program that they had participated

Academician activities or programs information is very important to make sure that all academicians in the faculty already had joined all activities or programs by module follow by the university or other organizers. This system can keep track of details of all academician activities or programs.

1.3.3 Easy to generate report of academician activities or programs

This system can make easy to generate report of academician activities or programs that they had participated and determine number of academician that attend to any activities or programs. This can help faculty to generate a good report of academician activities or programs that they had joined or their details of profile the end of year.

1.4 Scope

Scope of the FTMK Academician Management System can be explained in term of project deliverables, target user and target area. Figure 1.1 illustrates the scope of FTMK Academician Management System.
1.4.1 Project Deliverables

This project will deliver a web-based system that has been divided into several main modules as the following:

i. User Access Control

The system administrator manages this system. In this module the system administrator must create a role and grant privilege to the user for allow accessing the system.

ii. Record of Activities or Programs and Academician Module

This module allows system administrator to add record information about academician activities or programs that they had participated such as seminar, conference, workshop/training under university or others organizers. In this system, academician only can view the activities or programs that had participated and record about their research and publications details. Besides that, this system allows all users to update their profiles details.
iii. Backup and Recovery Module

Backup and recovery module will help the system administrator to make copies of academician details of activities or programs data and restored the original data.

iv. Search Information Module

This Search Information Module allows user to search and view the academician activities or programs information by title and year.

v. Generate Report Module

This module allows authorized user to generate report based on the search such as by title and year or by activities or programs. This module also allows system administrator to know the transaction logging of all users that had use this system.

1.4.2 Target User

These are two types of users that will access this system. There is the internal user and external user. An internal user is Support Staff of Assistant Registrar at Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM) as a system administrator. The external users are the Academician, Dean of Faculty, Deputy Dean (Research and Post Graduate) and Head of Department of FTMK.

1.4.3 Target Area

This system focuses on academician and will be implemented at Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM).
1.5 Project Significance

The FTMK Academician Management System (FTMK AMS) has been developed to assist Faculty of Information and Communication Technology to manage their academician information such as details of profiles and details of participation in any activities or programs.

FTMK AMS will record the academician details and their activities or programs information. With this information, faculty can keep the good report by every year for evaluate the academician activities or programs that balance with the faculty requirement. This information is very important to make sure that faculty can evaluate its achievement in producing the academician that fulfills the university needs.

1.6 Expected Output

The expected output of his project is web-based systems that will be able to add record information about academician activities or programs that they had participated such as seminar, conference, workshop/training, publication and research. Besides that, it can also search and view the academician activities or programs information by title and year to view the list of activities or programs that the academician had participated. With this system, it helps the system administrator to make copies of academician details of activities or programs data and restored the original data. However, it can generate report based on the search such as by title and year or by activities or programs with the transaction logging report of all users that use this system for administrator.
1.7 Conclusion

As the conclusion all the basic information of FTMK AMS had been explained in this chapter. The problem statement that had been discovering will be use to enhance understanding how the FTMK AMS can help the user to make the process easily. The missions to overcome the problem are covered as the objective of this project. Scope is what will be developing in this project in addition to make it the expected result successfully fills the requirement.

Chapter II will discuss on the literature review and the project methodology for the FTMK Academician Management System.