UTeM e-CLUB SYSTEM (e-CLUB)

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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JUDUL: UTeM e-CLUB SYSTEM (e-CLUB)

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UTeM e-CLUB SYSTEM (e-CLUB)

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This report is submitted in partial fulfilment of the requirements for the
Bachelor of Computer Science (Software Development)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
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DECLARATION

I hereby declare that this project report entitled

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is written by me and is my own effort and that no part has been plagiarized without citations.

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DEDICATION

To my mom and dad, Puan Noraida Nordin and Encik Zaini Ithnin

To my beloved supervisor, Puan Mashanum binti Osman

And to the fellowship friends of BITS for the co-operation and knowledge sharing in completing this project.

Thank you so much.

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I would like to thank my family and beloved parents that very understanding and giving moral support for me. Not forgetting my beloved friends who help me, teach me and share a knowledge during the process of development of this system.

Finally, through this Final Project (PSM), it is hoped will be one of learning and preparation for me before going to another phase such as real working environment. All the experience and knowledge that I gained this will hopefully help me to go through in my working environment in future. Here I would like to apologize if there is any inadvertent error in the process of preparing the report for the Bachelor Final Project.

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ABSTRACT

UTeM e-Club system is a system that specifically designed to manage the co-curriculum activity among student and staff UTeM. Therefore, the project is introduced to help the management of Student and Alumni Affairs (HEPA) UTeM managing student activity more effective. UTeM e-Club system only focus to manage all the student including activity update week to week, student personal-log, attendance record and news update.

UTeM e-Club system will be a platform for the HEPA management staff to communicate with the club committee and UTeM students. UTeM e-Club System is developing for HEPA specifically for club management from the aspect of member's management, activity management and report. HEPA currently did not have a proper website. At UTeM official portal which is under administration, there is a link for Student and Alumni Affairs site. A proper and dynamic website is needed to let the students and staffs to easily access or view information on their updates or request to join the student society. UTeM e-Club system provides communication platform and service for club management to the student/supervisors. Currently, there is no platform to connect between the supervisor and student to the student society committee. All the documents related to the club management are managed using paper based and manually filling system.

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ABSTRAK

UTeM e-Club System (e-Club) adalah satu sistem yang direka khusus untuk menguruskan aktiviti kokurikulum di kalangan pelajar dan kakitangan UTeM. Oleh itu, projek ini diperkenalkan untuk membantu pengurusan pelajar dan Perhubungan Alumni (HEPA) UTeM yang menguruskan aktiviti kokurikulum pelajar lebih berkesan. Fokus utama system ini adalah untuk menguruskan log-peribadi pelajar, mengurus aktiviti kokurikulum dari minggu ke minggu, dan mengemaskini berita dan kehadiran pelajar.

UTeM e-Club System (e-Club) juga akan menjadi platform bagi kakitangan pengurusan HEPA untuk berkomunikasi dengan Jawatankuasa Kelab dan pelajar UTeM. HEPA pada masa ini tidak mempunyai sebuah laman web yang dinamik. Di laman portal rasmi UTeM, terdapat link untuk laman web pelajar dan Perhubungan Alumni. Laman web dinamik diperlukan untuk membolehkan pelajar-pelajar dan kakitangan untuk melihat maklumat mengenai kemaskini atau permintaan untuk menyertai persatuan pelajar mereka. Pada masa ini, tiada platform yang sesuai untuk penyelia kelab dan pelajar kelab. Semua dokumen-dokumen yang berkaitan pengurusan kelab masih diuruskan berasakan sistem manual dengan menggunakan kertas.

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LISTS OF ABBREVIATIONS

CPU	Central Processing Unit
DBMS	Database Management System
DFD	Data Flow Diagram
ERD	Entity Relationship Diagram
GUI	Graphic User Interface
OS	Operating System
PHP	Peripheral Hypertext Preprocessor
RAM	Random Access Memory
SDLC	Software Development Life Cycle
UTeM	Universiti Teknikal Malaysia Melaka

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CHAPTER I

INTRODUCTION

1.1 Introduction

Universiti Teknikal Malaysia Melaka (UTeM) is one of the great technical universities in Malaysia. UTeM vision which is to be one of the world's number one in innovative and creative technical university serve their student and staff to be more effective and productive in technical environment. Comfortable and conducive working environment is one of the internal factors that influence the work style of the staff in order to increase the productivity. Several assistive computerize system are needed by the staff to help them working in more efficient way. A proper and dynamic website is needed which have capability of maintaining information related. Realizing this situations, UTeM e-Club system is introduced to help the management of Student and Alumni Affairs (HEPA) managing student activity more effective. This system only focus to help the students get the latest information and a better understanding about the activities conducted. It also helps students record the understanding in the personal-log of their club activity. UTeM e-Club system

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also can help supervisors to make revisions from week by week without requiring them to obtain students log books that are still use now days. Furthermore, the club supervisors can give a remainder message to students if they have a poor attendance record.

1.2 Project Background

The aim for this project is to help student and supervisors to manage the club activity through online. UTeM e-Club system will be used by three users which are admin, supervisor and student. After the user login into the system, students and staffs can go to the e-Club user's main page. Each user has specific main page with different function. UTeM e-Club system helps the Student and Alumni Affairs (HEPA) staff manage student's activity using system that have a database. Data stored in database is easy to store, retrieve and organize. The improvement can help them in giving the best services to their customers which is UTeM student and supervisors.

1.3 Problem Statement

Normally, club members need to remember and write if there are important things that need to be taken during the next curriculum session. Into this system, club members do not have to worry if there are last minute information changes made by the supervisor of the club as the information will be updated time by time. By checking the student's personal-log using this system, this can help supervisors make inquiry regarding the understanding of the clubs activities from week by week. Normally, club member have to write it in a log book, otherwise it would give a problem if the log book is lost or damage. Using this manual system it also can contribute to the waste paperwork flow. The club management also does not have a specific channel to interact with their club members. Supervisor also does not have any systematically

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system to review student attendance and provide reminder to students who are absent more than three days.

1.4 Objectives

The main objective of this project is embarks on this following:

1) To help the supervisor to review the understanding of student and give some reviewed comment when student submit their personal activity log using this system.
2) To provide facilities for students to get information about the curriculum activities that have been carried out.
3) To send reminder message to students who have severe attendance record.

1.5 Project Scope

The scope of this system divided into two categories which are user scope and system scope.

1.5.1 User Scope

The user that will use this system are HEPA staff as administrator, lecturer as club supervisor and UTeM students. There also will categorized with different functions as following users:

1) Admin

   On this UTeM e-Club System, administrator are provided to manage the information of club supervisors and student account. Also, give announcement to students time by time regarding sudden meeting held by supervisor or something else.

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2) Students

Students can submit personal-log activity through this system. Students able to update and view the latest news and activity of the club.

3) Club Supervisor

Club supervisor can check the attendance record, give reminder message from system through short message service (SMS) to student who absent more than three day. Club supervisor can review and give some comment to student who send their personal-log activity by weekly. Club supervisor also can share status with picture about curriculum activity held by student to increase student understanding.

1.5.2 System Scope

System scope is the scope of the modules in the system. There are four main modules in this system which are News Update, Activity report, Student Attendance.

1) News Update

This module for updating the current news or gives a notice about activity given for the club.

2) Share Activity

This module allow supervisor and student share the activity held in club.

3) Student Attendance

Student attendance module allows supervisor to mark the attendance and give reminder message to student who absence more than three days through short message service (SMS) by only using this system.

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4) Personal-log Report

This module allow student to show their understanding about the activity held in the club, supervisor can review the personal log and give some comment.

5) Member Registration

The users of this system are UTeM student, supervisor and admin. Each user must login into the system using their student and staff identification number. Registration of user must done first by Admin in order to allow other users to login into the system.

1.6 Project Significance

The importance of this UTeM e-Club system is to help the student get latest information and a better understanding about the activities conducted by clubs supervisor. It also helps students record their understanding in the personal-log activity. For club supervisor, it can help them to make revisions from week by week without requiring them to obtain their log books that are still in use now days. The use of log book is not very efficient and systematic if it is damage or disappear. However, the club supervisor can send reminders message to the student if they have a poor attendance record through the short message service (SMS) by using this system.

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1.7 Expected Output

The system must provide intuitive display that is easy and attractive to use. Only registered members of the club can use this system. However, it's more convenience if this system can be enhance to mobile application rather than only web based system. In addition, this system can limit the use of paper and it more efficient when handle any of the club activities.

1.8 Conclusion

As conclusion, the advantage of UTeM e-Club System is to provide the systematically platform to manage curriculum activity more efficient. Besides that, this system provides useful function which club supervisor can send remainder message to student if they have poor attendance record through short message service (SMS) by only using this system.

Chapter II will covers about literature reviews based from several existing system that have a functionality same as UTeM e-Club System,

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CHAPTER II

LITERATURE REVIEWS

2.1 Introduction

Some reading material as well as theoretical examples that should be reviewed for a research discussed in this chapter. The purpose of this chapter is to propose a way how to focus the literature review and the development of the theory to the study. This chapter also will covers the details of the facts and findings on club member's registration, project method, project requirements and project schedules and milestones.

2.2 Facts and Findings

In this section, facts and findings associated with the development project to be discussed. This section are divided into three components, namely a domain, existing systems and techniques. From the understanding of the existing system to help developers to connect strengths and weaknesses of existing systems and develop new systems that have some improvements in it.

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2.2.1 Domain

A domain for this project is the Information Technology and Communication in Management. This is because the system is designed for Student Affairs and Alumni (HEPA), supervisor and student clubs UTeM. This domain is correspond for supervisor and student clubs UTeM because they will be using the system for the management of student clubs and activities.

2.2.2 Existing System

There are some existing systems that provides an online student management system activities. However, none of the educational institution in Malaysia use online application for managing student clubs. It is good for be apprentices to provide HEPA an online student management system clubs. Here are a few similar sites available that provides student club management system that can provide guidance in this system development.

2.2.2.1 Sports Manager – Membership Software and Website Software

Sport Manager is online membership software for associations, non-profits, and club, subscription websites, and mobile software in the cloud. The system can be access through https://www.sportsmanager.ie (Refer Figure 1). There are several module that can be access by user such as:

a) Membership Management (Module 1)
   Online membership applications
   Member directory
   Automated 'live' feed of Results, Fixtures and Tables.

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