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JUDUL: FTMK GRADUATES MARKETABILITY SYSTEM

SESI PENGAJIAN: 2006 / 2007

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FTMK GRADUATES MARKETABILITY SYSTEM

NUR HIDAYAH BINTI KHALID

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

FACULTY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
KOLEJ UNIVERSITI TEKNIKAL KEBANGSAAN MALAYSIA
2006

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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.

Student : _____ Date : 24/11/06
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DEDICATION

Bismillahirrahmanirrahim

Thousand appreciation to all helping hands..

To my beloved family-mummy, papa, along, anyah and my only brother.. Thank you for being my guardian angels and giving me endless support...

To my inspiration.. tasya, ammar, batrisyia and sofea..

To my best friends neni, quill, wanda, atun.. Thanks for always being there when needed. Friendship Forever!!

To my fellow friend..jk, nurul, kak ina, syahmi, syura for ups and downs throughout the wonderful 3 and half years together..

To guys that always be my shoulder to cry on..zaren thanks for cheer me up and accepting me the way I am, ,to yus thanks for the spirits and heary thanks for the comments, criticism and for the wonderful design..

To my futsal buddies, lenny, adik ,sr, ben, ijun, clara, emon, coach shyful.. Thanks a lot!!

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ABSTRACT

FTMK Graduates Marketability System (FTMK GMS) is an analysis system that has been developed for Faculty of Information and Communication Technology, Kolej University Teknikal Kebangsaan Malaysia to determine graduates marketability. The main problem is all graduates information has been captured manually using a paper based approach. Therefore, the time needed to capture the information is longer and the process of analysis will become harder. This method was less efficiency and will lead to many problems especially in analysis making. Therefore, FTMK Graduates Marketability System aims to solve the problem identified. The system consist of five modules which is login, record graduates information, queries information, analysis making and report generation. This system applied system developments methodology which is using Waterfall model and Database Life Cycle. This system will be implemented using MySQL as a Database Management System and PHP.

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ABSTRAK

FTMK Graduates Marketability System (FTMK GMS) merupakan sistem analisa yang di bangunkan khas untuk Fakulti Teknologi Maklumat dan Komunikasi, Kolej University Teknikal Kebangsaan Malaysia bagi menentukan kebolehpasaran graduan. Masalah utama ialah semua maklumat graduan direkod secara manual menggunakan kertas. Oleh itu, lebih lama masa yang diperlukan untuk mandapat maklumat graduan dan proses manganalisa akan menjadi lebih sukar. Kaedah ini adalah tidak efisien dan boleh membawa kepada beberapa masalah terutamanya apabila ingin membuat analisa. Oleh itu, sistem yang dibangunkan ini bertujuan untuk menyelesaikan masalah yang timbul. Sistem ini mengandungi lima modul iaitu daftar masuk, rekod maklumat graduan, pencarian maklumat, membuat analisa dan menghasilkan laporan. Sistem ini mengaplikasikan metodologi pembangunan sistem iaitu menggunakan model *Waterfall* dan kitaran pangkalan data. Sistem ini akan dibangunkan menggunakan MySQL sebagai sistem pangkalan data and PHP.

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LIST OF ABBREVIATIONS

KUTKM	Kolej Universiti Teknikal Kebangsaan Malaysia.
3NF	Third Normal Form
DBLC	Database Life Cycle
DBMS	Database Management System
FTM	Fakulti Teknologi Maklumat
FTMK	Fakulti Teknologi Maklumat dan Komunikasi
GMS	Graduates Marketability System
SDLC	Software Development Life Cycle
USA	United Stated of America
USM	Universiti Sains Malaysia
UUM	Universiti Utara Malaysia
OS	Operating System
MSWORD	Microsoft Word

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CHAPTER I

INTRODUCTION

1.1 Project Background

FTMK Graduates Marketability System is a project that had been developed for Faculty of Information and Communication Technology, Kolej Universiti Teknikal Kebangsaan Malaysia. Every year, there will be almost five hundreds graduates from this faculty. Before this, there is no other system that is able to keep track of the students graduating from this faculty even though it is important for FTMK to know the achievement of its graduates.

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 student's marketability. Therefore, this project is very useful for FTMK to make sure that they can keep track of its 'products' performance.

FTMK Graduates Marketability System is a system that will keep track of FTMK graduate students. Graduates from Faculty of Information and Communication Technology will be registered into the system to store their personal and occupational information or postgraduate studies. Graduates photo will be captured. This system will be able to store the faculty 'products' and their graduates abilities and qualifications related to their jobs or studies. Information on their workplaces will also be recorded so that the faculty will be able to indirectly assess its curriculum in preparing the students for the industry. Besides that, with this project, faculty will be able to determine (indirectly) either the courses offered by

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faculty is still relevant to the market or not. The system will be web-based so that graduates will be able to update their latest information through the Internet.

1.2 Problem Statements

Every year, Faculty of Information and Communication Technology, Kolej Universiti Teknikal Kebangsaan Malaysia will have about four hundred graduates per batch.

Previously, the graduate's information is captured using paper based. The questionnaire and the form about the graduate's employment history and others related information will be given to graduates for them to complete. When graduates return the form, faculty's staff will insert the data in a computer and then make a filing for the forms return based on the graduate's batch. Because there are many forms return at the same time, these leads to the problem of misplace the paper and difficult to make an analysis or to make references if necessary.

Even though the faculty will keep the graduate's information in the computer, it still consider manual because the faculty's staff need to key in the information based on the form. Because the information is manually entered, faculty will face difficulties to make an analysis of their products.

Therefore, the development of the FTMK Graduates Marketability System is very important to make sure that faculty can evaluate its achievement and to solve the problems as stated above.

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Therefore, the development of the FTMK Graduates Marketability System is very important to make sure that faculty can evaluate its achievement and to solve the problems as stated above.

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1.3 Objectives

Regarding to the problems explained before, the main goal of developing FTMK Graduates Marketability System is to have one system that will keep track of graduate students information. The objectives of the system are as the following:

1.3.1 Able to record graduates employability in the industry

The system will be able to record graduates personal information and their current employment information. From this information, faculty's can determine in which industry graduates are interested to work on. Besides that, faculty can also keep track of graduates current employment and determine their potential.

1.3.2 Able to keep track of graduates marketability in order to provide useful information in improving faculty's teaching and learning strategies.

Graduates marketability information is important to make sure that faculty 'product' is valuable to market. By using this information, faculty will able to analyze their curriculum to make sure it's match the industry need. With the graduates' marketability information, faculty can evaluate their teaching and learning strategies and make improvements in it, so that graduates from this faculty will have extra skill and knowledge that can differentiate them with other Computer Science graduates from other universities.

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1.3.3 Able to generate statistic and graph on the number of graduates employed or furthering their studies and on how fast they can get employment.

The system can produce a statistic on the number of graduates employed or furthering studies by using related graduates information. The result of the statistic will be shown using related method such as bar chart or graph. The system can also make an analysis and produce statistic on the time needed for graduates to get employment. This is important for faculty to evaluate their 'product' potential.

1.3.4 Able to make fast queries on graduates employment based on their field of studies at the faculty.

This system can make queries on graduates' employment to determine number of graduates that have been employed based on their field of studies and number of graduates that have been employed in other fields. This can help faculty to determine which courses offered by this faculty are valuable to the market.

1.4 Scope

Scope of the FTMK Graduates Marketability System can be explained in term of project deliverables, target user and target area. Figure 1.1 illustrates the scope of FTMK Graduates Marketability System.

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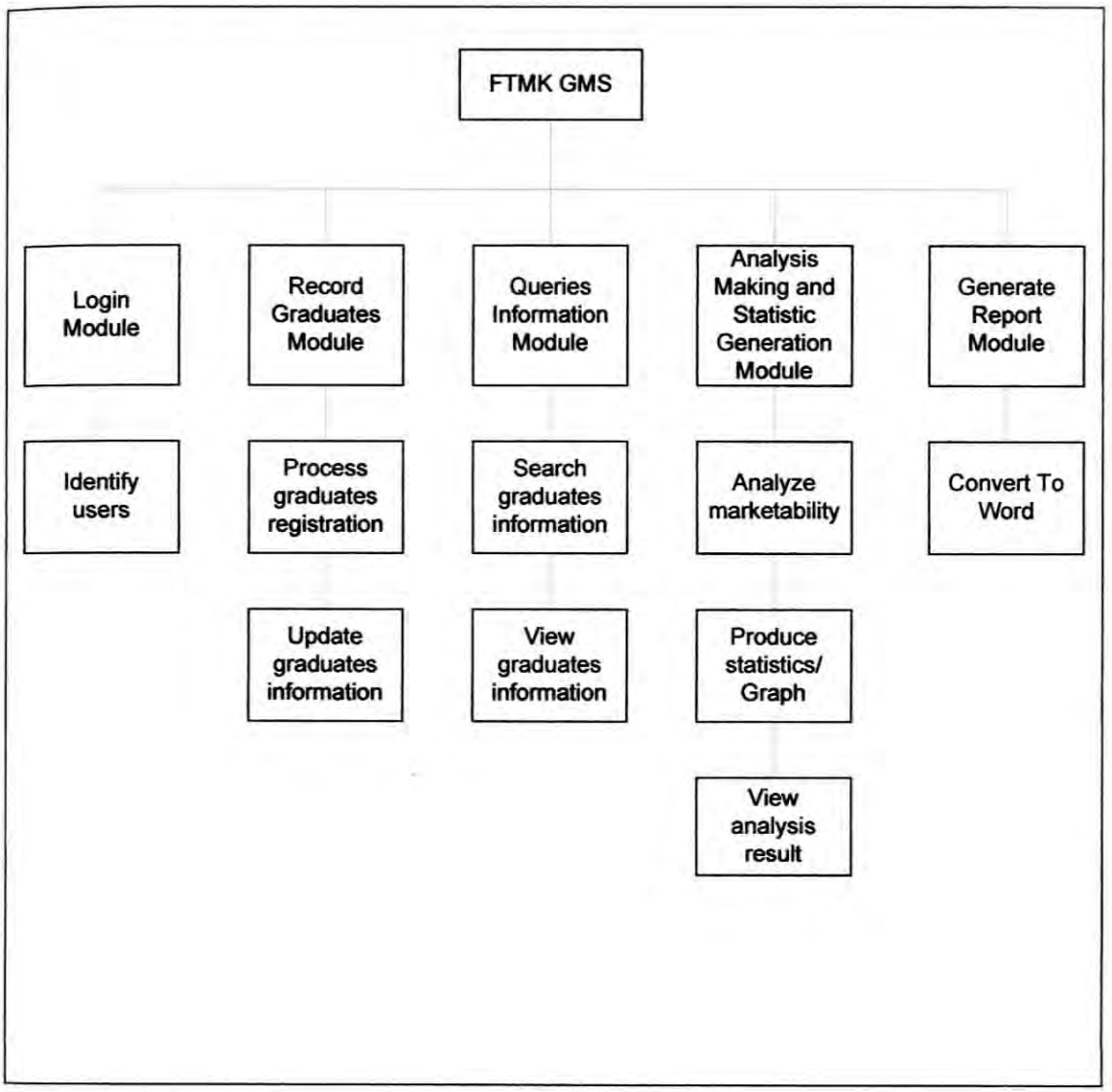

Figure 1.1: Scope of FTMK Graduates Marketability System

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. Login Module

This module use to identify graduates and staff. Only authorized staff and registered graduates can access the system.

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