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JUDUL: CENTRALIZED TUTORIAL SYSTEM

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Saya SITI KHAIRUNNISA BINTI ABD RAHEEM

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*Tesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

CENTRALIZED TUTORIAL SYSTEM

SITI KHAIRUNNISA BINTI ABD RAHEEM

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2008

DECLARATION

I hereby declare that this project report entitled

CENTRALIZED TUTORIAL SYSTEM

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

STUDENT : _____ Date: 30/04/08

(SITI KHAIRUNNISA BT ABD RAHEEM)

SUPERVISOR : _____ Date: 30/04/08

(MISS EMALIANA KASMURI)

DEDICATION

To my beloved parents.

"One can pay back the loan of gold, but one dies forever in debt to those who are kind"~Malayan Proverb

And to all my friends

"Success will never be a big step in the future, success is a small step taken just now"~Jonatan Mårtensson

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My gratitude to almighty ALLAH S.W.T. finally, I have complete my PSM report. Here by I want to appreciate my parents that being very supportive in term of moral and monetary from beginning especially my beloved mother, Saliah bt Sahak. Without her, who am I in this world and making me as far as I go right now.

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ABSTRACT

Centralized Tutorial System (CTS) is a web based application. This project intends as a platform for online tutorial system. It was developed as prototype system for lecturers and students of Faculty Information and Communication Technology in Universiti Teknikal Malaysia Melaka (UTeM). The system provides a management tutorial system such as create structured tutorial, view, answer and manage the tutorial mark. Before this, there is no platform which focuses on tutorial. Furthermore, the paper-based tutorial is familiar. It would be more effective and practical by computerized the paper-based technique. So the development of this system can be considered as one idea that shows the growth of information technology.

ABSTRAK

Centralized Tutorial System (*CTS*) adalah sistem yang berorientasikan web. Projek ini bertujuan sebagai platform kepada sistem tutorial *"online"*. Ia dibangunkan sebagai system prototaip bagi pensyarah dan pelajar Fakulti Teknologi Maklumat dan Komunikasi di Universiti Teknikal Malaysia Melaka (UTeM). Sistem ini menyediakan fungsi seperti pengurusan tutorial, paparan,pengurusan jawapan dan pengurusan pemarkahan tutorial. Sebelum ini tidak terdapat platform yang fokus pada tutorial. Tambahan pula, penggunaan kertas begitu biasa diaplikasikan. Ia akan menjadi lebih berkesan dan praktikal jika ditukar kepada sistem berkomputer. Jadi, pembangunan sistem ini adalah idea yang menyumbang kepada perkembangan teknologi maklumat.

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LIST OF ABBREVIATIONS

CTS	Centralized Tutorial System
UTeM	Universiti Teknikal Malaysia Melaka
DFD	Data Flow Diagram
ERD	Entity Relationship Diagram
DDL	Data Dictionary Language
PHP	PHP Hypertext Preprocessor
PK	Primary Key
FK	Foreign Key
PSM	Projek Sarjana Muda
LAN	Local Area Network
WAN	Wide Area Network
OS	Operating System
PC	Personal Computer
NIC	Network Interface Card
SCM	Software Configuration Management
HTTP	Hypertext Transfer Protocol
LDM	Logical Data Model

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CHAPTER I

INTRODUCTION

1.1 Project Background

The growth of technology always brings the positive improvement in most work. People easy manage the works with systematic and efficient. So the Centralized Tutorial System is one application which is develop as alternative way to improve the student weakness in some subjects and help lecturer to handle the carry mark of student.

This application involves two sides between lecturer and student. Kind of application is similarly to mentoring system. But here, the students that can get the tutorial or exercise through application are the students. The students will be asked to register to get the tutorial or exercise. The related lecturer will informed them if there are question to be done.

The functions that will provide in this application are question created by lecturer based structured tutorials, result of student, the right answers for tutorial from lecturer as this can be a platform for student to do revision for final exam. The calculation of tutorial's mark also has been included in this system.

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1.2 Problem statements

In a class there always have a many subject that registered by student. Students are requiring doing tutorial as it was a part of the learning process. Officially, tutorial was upload to the portal and tutorial distributed to student. Everything is normal but there no platform or system that control and handling the tutorial. So with the application, lecturer not only provided tutorial synchronize to the syllabus for those really need it also can manage the student's carry mark through this application. The application will be the wonderful for those who want to study or simply learn the subject.

Commonly the student who have difficulty in subject they were asked to go to see lecturer which sometimes they cannot spend a time for that. With this application, they will get tutorials or exercises and independently with full effort to find out the answers. This is a good way to develop a good characteristic of student.

Even there are also can distribute the exercise or questions by hand or email or download on portal but with one system which focus as tutorial platform can make more better environment . They probably unaware the advertisements about the new tutorial to be done and will cause them apply to extend the due date. If they get know the instruction as soon as possible to do the new exercise as the new questions created. They of course will have no excuse to delay to submit the work.

To help student in understanding the subject, by given exercises also is one effective way. Manually questions given usage the paper-based. A paper-based system can consider as not a practical as technology growth fast. So the computerized system has to be implemented to encourage the development of technology in this country. Technology has become simpler and more comfortable and has entirely changed the way we live and work.

1.3 Objectives

The objectives of this development application are:

I. To create one system for tutorial platform via online
Communication through network medium is not a new strategy to handle any business process including in education sector. This is because it is very accessible and easy to retrieve data. Furthermore, the user can interact to each other where ever there are. So this tutorial system can consider as an electronic version for replace the paper-based tutorial.

II. Promote alternative way to student to do tutorial from the lecturer. This can be considering the students are given more attention through network medium. The application also can help the student which the tutorial can be cover numerous topics not in textbook are also from the lecturer knowledge itself that relate to subject.

III. Providing a medium for lecturer and student in order to help student get improve the subject without they need to see each other. The application is medium to get tutorials.

1.4 Scopes

The prototype is purposely developing to Faculty of Information Technology and Communication in Universiti Teknikal Malaysia Melaka (UTeM) as long as it included the student and the lecturer.

The students have to register and this is compulsory as will contribute on their carry marks. The lecturer has to inform the students to do so and lecturer is the one who

performance on the course. Besides, as an encouragement for students to do the tutorial as they can access and submit the tutorial from every where even not in campus. It is also to give an opportunity to lower-achieving marks student strategy in learning with easy and preparing the student for a more in-depth reading of the revision books.

The feature of the calculation of carry mark can be done easily by lecturer. The lecturer they to key in the mark for tutorial then the system will calculate the percent of mark. This feature is to make lecturer feel easy in manage student mark.

1.7 Conclusion

The application is a platform for lecturer and student to organize tutorial as it contribute a percent on carry mark of students and the result in exam. The more tutorial or exercise we do, the more knowledge we get. This practice student imbedded the effort value into their self in order to achieve success. The more detail to describe, appraise the application and details the methodology undertaken that used in project development are cover on next chapter.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

In this chapter, the literature review will involve researching, identifying, and reviewing the application concept. By finding this particular reference to gives an overview of common sources related to system. While the methodology reviews the appropriate approaches in system development. The approach is important and helps in successful of project.

This electronic version are propose for replacing the manual way giving extra tutorial to student by giving questions paper. The application offered practical way, an easier and more accessible to retrieve the tutorial questions. Besides, learning style also included do many practice exercise varying the type of exercise and the level difficulty.

The first step of this development is identifying the project methodology that necessary for establishing a quality and finished system, followed by determining the sequence in which there processes have to be executed and their interaction. In order to achieve the objective all this literature review are needed.