

TEACHER-STUDENT NETWORKING PORTAL

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

BORANG PENGESAHAN STATUS TESIS*

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TEACHER-STUDENT NETWORKING PORTAL

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2010

DECLARATION

I hereby declare that this project report entitled
TEACHER-STUDENT NETWORKING PORTAL

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

STUDENT :  _____ Date: 25/6/2010
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SUPERVISOR: _____ Date: _____
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DEDICATION

Specially dedicated to my beloved family
who provide me moral support, supporting me financially for me to have proper
education

This dedication also goes to
En Ariff Idris
act as my dedicated Supervisor.
Who have spent time, giving information and opinion

Not forgotten to my friend,
Rafizi bin Abdullah Mohd Zulfadli Khamis and Muhammad Zulfadli Zakaria
and all my classmate BITC.
Thanks for all supports and motivations in order to complete this PSM project

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Alhamdulillah, Greatly thank to Allah because without HIS blessing I will not finished my final year project. I would like to take this opportunity to express my gratefulness to my parents who giving their moral support, financially support, and dont forget to pray to god, in order to let me having a safe journey to learn in the Univesities.

Secondly, I would like give my appreciation to my PSM supervisor, En Ariff Idris who give advices, critics, helps, encouragement and great idea in order to help me doing my Final Year Project . Not forgetting my group members, Rafizi bin Abdullah, Mohd Zulfadli Khamis, Muhammad Zulfadli Zakaria who always remind, assisting and teaching me on how to do parts inside Final Year Project and wont forget, my housemate Aminur Hassan, Syafik Idris and Fariz Dzolkifli who's give big help for make me standing up for doing this Final Year Project.

ABSTRACT

Teacher-Student Networking Portal is web-based system that help keeping communication between teachers and students in order to keep the learning process happens all time. The system helps any learning institution to use the system as like having their own e-learning application without spending money for hosting e-learning services for the institution. The system help keeping communication between teachers and students by using messaging, chat services or by using class section in order to keep in touch with each other outside from class hour. With the class section functionality, teachers can upload learning material for their students in order to give more knowledge to their students. This system also helps lecturers to send announcement effectively without needed class Representative

The system also allowing users to use the system with either using computer or mobile devices as long as those device have internet access. The development of the system are referring to 'Iterative and Incremental development model' which is improvement of 'Software Development Life Cycle'.

ABSTRAK

Teacher-Student Networking Portal merupakan sistem berasaskan web yang membantu perhubungan antara guru dan pelajar bagi membolehkan proses pembelajaran tetap berlaku sepanjang masa. Sistem ini membantu institusi pembelajaran bagi memiliki aplikasi e-pendidikan tanpa perlu mengeluarkan wang untuk menyediakan perkhidmatan e-pendidikan di institusi tersebut. Sistem ini membantu perhubungan antara guru dan pelajar dengan menggunakan fungsi *chat* dan *messaging* ataupun melalui ruangan kelas supaya dapat terus berinteraksi sesama sendiri pada waktu luar kelas. Dengan menggunakan fungsi kelas, para guru dapat menyediakan bahan pembelajaran untuk pelajar supaya lebih banyak ilmu diberikan kepada pelajar. Dengan bantuan sistem ini, para guru dapat menghantar notis dan pengumuman kepada semua pelajar secara efektif tanpa memerlukan wakil kelas.

Sistem ini dapat diakses dengan menggunakan komputer ataupun perkakasan mudah alih selagi perkakasan tersebut dapat mencapai perkhidmatan Internet. Pembinaan sistem ini ada berdasarkan model *'Iterative and Incremental Development'* yang merupakan pembaharuan daripada 'Kitaran Hidup Pembinaan Perisian(SDLC)' .

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CHAPTER 1

INTRODUCTION

1.1 Project Background

Mostly, students will have to visit the teachers room for asking question for what they don't understand to the teacher. But, what happened if the teachers is gone from the teachers room for doing other tasks, the students have to call the teachers for making an appointment for appropriate time to seek for the teacher which is sometime the time is not appropriate for the students themselves to seek for teacher guidance. How about lecturer that want to make announcement other than lecture time, these lecturer will call the Representative of the class for distribute the announcement and what if the representative couldn't answer call which lead to announcement distribution is interrupted.

Because of these situation,that is why the modern technology such as the Internet helps distributing information to the people that needs the information. By using the Internet, Teachers and Students can still communicate outside from school/lecture area outside of working time in order to give knowledge and information to the students to gain knowledge and helps the study process continue all the time.

The system which is "Teacher-Student Networking Portal" are actually exist before, but the features of the newer system such as chatting application and the use of mobile content via Wireless Internet service(e.g GPRS or 3G network) allow the

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INTRODUCTION

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The system which is “Teacher-Student Networking Portal” are actually exist before, but the features of the newer system such as chatting application and the use of mobile content via Wireless Internet service(e.g GPRS or 3G network) allow the

system to be used at real time and also make availability of the system can be improved with the help of current technology to make the system can be use all the time, anytime and anywhere as long as the people carries the required devices.

1.2 Problem Statements

Nowadays, teachers are not only just go to the class, teaching their students and waiting for the students for to seeking for answer in their learning since the information or knowledge that was delivered in the class is actually not enough. Teachers especially lecturer have other task to be done in order to deliver education or knowledge to the public other than their students and also make research for seeking new technology in order to improve the human life and also to help the nature as well. Since the teachers especially lecturer are busy at their working hours but they will have their free time off their working hour but actually during their free time are hardest time for the students to seek and communicate with their teachers.

To overcome the problem for keeping the communication, the Internet service are used to keep the communication between the teachers and students keep going on. However, if either the students/teachers is hard to reach the computer for using the Internet service, they can use alternative way to use the Internet services by using mobile wireless Internet connection that integrates with the modern mobile phones and PDAs. However, what the point as having the new technology, if there isn't any software that takes advantage of the Internet technology.

The “Teacher-Student Networking Portal” which is the advancement for current existing system can be used for the students for asking question to their teachers quickly without needed to seek their teachers at their room, and teachers can answer these question quickly as long as the teacher can reaches the system via the computer or mobile devices that connected with Internet connection. This system allow any entities in any schools or any institution to used the system without spending too much money for having own web server to hosts the services for

distributing information and knowledge quickly and effectively. This system also helps the students and their teacher communicate instantly and reminder from the teachers to their students can be send quickly to make their job to remind the students much more easier and less worries.

1.3 Objectives

- To develop a system that can be used with mobile devices via any wireless Internet network especially GPRS and 3G network that covers the most area in the country with suitable web content compared to computer counterparts and also allowing the system to continue to been used anytime and everywhere the users are.
- To save times for the users to communicate with each other for asking and answering question and also to distribute stream of information to the user by using the message/chat and file sharing function in the system.
- To make use of organizer function to makes the flow of users task smoothly and makes their live easier.
- To allow any entities in any school or institution to use the system without spending so much money for having own servers to provide the services.

1.4 Project Scope

- Modules:
 - Submission of information with either the use of computer or mobile devices that connected to the Internet.
 - Receiving of information from User by using the Computers or mobile devices
 - Message and Chat services that allowing the user to communicate each