

**THE MESSAGING SYSTEM WITH FILE ATTACHMENT FUNCTION FOR
THE USAGE OF UTeM (LAN)**

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USAGE OF UTEM (LAN)

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**THE MESSAGING SYSTEM WITH FILE ATTACHMENT FUNCTION FOR
THE USAGE OF UTeM (LAN)**

HASMAZANA BINTI HASHIM

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

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITY TEKNIKAL MALAYSIA MELAKA
2008**

DECLARATION

I hereby declare that this project report entitled
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THE USAGE OF UTeM (LAN)**

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

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DEDICATION

A special dedication goes to my beloved parents Mr. Hashim bin Embong and Mrs. Maimunah Binti Embong because giving support in completing my final year project which is entitled Messaging System with File Attachment Function for Usage of UTeM (LAN).

I also would like to dedicate to the people who help and support direct or indirect in finishing my project successfully.

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ABSTRACT

The project that will develop for the PSM is the Messaging System with File Attachment Function for the Usage of UTeM (LAN). The Messenger system is for internal used only, only all users in UTeM can access the messenger system when system run. The functions provided by the system included messenger and transfer and download file included permission to transfer file. The system can supported Windows 98 and above as platform. The system is applying peer to peer architecture. The system will upload to the UTeM server and all users in UTeM can download the software and installer in their computer. The Software Development Life Cycle (SDLC) is using will be applying into the system which is a development lifecycle designed to give high-quality result than those achieved. This system is based on client server architecture. This system develops use Visual basic 6 to implement the Internal Messenger System.

ABSTRAK

Projek untuk membangunkan PSM adalah Sistem *Messenger* dengan fungsi memuat turun dan memuat naik fail untuk kegunaan di UTeM (rangkaian setempat). Sistem yang dibangunkan adalah untuk penggunaan pengguna di UTeM, terutamanya pelajar, pensyarah dan staf. Sistem ini adalah untuk penggunaan internal sahaja, hanya pengguna di UTeM boleh menggunakan system ini apabila system ini *dirunkan*. Fungsi yang disediakan oleh IM UTeM adalah *messaging* dan memuat turun dan memuat naik fail dalam pelbagai bentuk fail dengan kawalan kebenaran daripada pemuat naik. Sistem ini boleh menyokong Windows 98 dan ke atas pelayan akan bertindak sebagai pusat kawalan untuk mengawal sistem *messenger* ini. Sistem ini menggunakan senibina *peer to peer*. Selain itu, Software Development Life Cycle (SDLC) dimasukkan ke dalam kitaran hayat yang dicipta untuk memberi kualiti dan keputusan yang bagus untuk dicapai. System ini bergantung pada client server architecture. Tambahan pula, Visual Basic 6 digunakan untuk membina sistem Internal Messenger ini.

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LIST OF ABBREVIATIONS

LAN	-	Local Area Network
UTeM	-	Universiti Teknikal Malaysia Melaka
IP	-	Internet Protocol
PSM	-	<i>Projek Sarjana Muda</i>
IM	-	Instant Messenger
PC	-	Personal Computer
OODLC		Object Oriented Development Life Cycle
SDLC		System Development Life Cycle
SSADM	-	Structure System Analysis and design
UML	-	Unified Modeling Language
VB 6.0	-	Visual Basic 6.0
MO 2003	-	Microsoft Office 2003
MV 2003	-	Microsoft Visio 2003
MP 2003	-	Microsoft Project 2003
Win XP	-	Windows XP Professional

CHAPTER I

INTRODUCTION

1.1 Project Background

The project is will be develop is the Messaging System with File Attachment Function for Usage of UTeM (LAN). The messenger system for LAN is an Intranet instant messenger (IM), which, in fact, substitutes corporate messenger for exchanging files and messages in many faculties and for all students in UTeM. The IM is an Internet-based protocol application that allows one-to-one communication between users employing a variety of devices.

The most popular form of IM is chatting, where short, text-based messages are exchanged among computers. All PCs are directly connected (peer-to-peer) with each other, and the system starts working immediately after installation. The system manually determines which users are available. The important in this project is, it can upload file and download file for each other users.

1.2 Problem Statement

- a) The UTeM not have an IM university as the formal communication method.

Cause of the reason, the users in UTeM might be having a problem to communicate and transfer the file if other users need file in the faster time for sender. At the current time, UTeM have mail system, and it have a problem like connectionless with other type of mail (Yahoo Mail, GMail and etc). It might be give disruption for the transmission file to receiver and the file maybe not receive because of the problem.

- b) UTeM not give permission to install and use the global IM.

The users in UTeM not have permission to install and use IM global (ex: Yahoo Messenger, AIM Messenger) because there design for entertainment stuff which are not suitable for UTeM organize as university. The IM global are also designs for global user, so the organization can access the outside people who are not related to the university. Additionally, when we apply a global IM, the management file of global IM is not suitable for university because it can send all type of files and not filtering the file.

- c) The file sharing method not suitable to apply in UTeM.

The function of file sharing didn't know by all users. When it implemented, it not secure because, it have big possibly is not protected from hackers from outside.

1.3 Objective

Defining all objectives of the project that we want to develop is very important for us to meet the goal why the system must be developed to the end user.

The objectives of the project are:

a) To study the usage of IM in UTeM

The environment of UTeM is an education and career, mostly time is important for them. When they make meeting, they always take a lot of time like; to waiting all group member ready. When the IM UTeM system exist, their can make the discussion with the messaging, otherwise their can transfer or download the file to each others.

b) To study on protocol and file management of using in IM system.

We are want to study a protocol using in the system which it is using the multicasting protocol and connectivity of TCP or UDP. We also want to study how the file management and handle file following the file type in the system.

c) Develop prototype IM with File management features

To develop messenger system that can give the facility for all users especially student, lecturer and staff in the UTeM. The function of UTeM IM is to download, transfer file and messenger between users in UTeM.

1.4 Scope

The scope is the boundaries, constraints or limitation of the project want to develop. In this section, the scope in terms of users, system technologies and development will be listed and given a brief description.

1) Scope of System User

- It develops for students, lecturers, and all staffs in university to communicate with each other by using the IM system will be developed.

2) Scope of System Module

- The project is developed and designs to create an affective and easier communication tools to use by all in the UTeM. The module will be created are:
 - i. Search User: Before make the connection with each other, user must to search the user with enter the IP address of the others user using IM system.
 - ii. Search File: User can search file name from the other users, which is connected with user.
 - iii. Messenger: All users can use for communicate each other using messenger.
 - iv. Download file: All users can download file in all type each other through the IM system with permission of other user.
 - v. Upload File: All users can upload file in folder; all type file each other through the IM system

3) Scope of Technologies

The project tools will used for system such as:

- i. Microsoft Visual Basic 6.0 Language
- ii. Microsoft Office Word 2003
- iii. Microsoft Office Project 2003
- iv. Microsoft Office Visio 2003

4) Scope of Network System

The project will do internally approach. The limitation for this system is used in the LAN. The network that will used to develop the system is:

- i. Switch @ Cross cable
- ii. Straight cable

5) Scope of Methodology System

The methodology used in developing IM UTeM will be Object-Oriented Development Life Cycle (OODLC). OODLC is combination of Object Oriented System Analysis (OOAD) with System Development Life cycle (SDLC).

1.5 Project Significant

The idea of the project will be developed to one system that will give a lot of benefit to UTeM that realize the important of communication method. For example, in educational background, the system is useful to messenger and transfer file between student and lecturer. The result; it will produces an affective communication between them. This communication approach is the best communication can minimize the time and cost.

1.6 Expected Output

Upon the completion, I have expected to produce one system that can give functionality for UTeM. By using the IM UTeM system, all users in UTeM can communicate with each other when their online in LAN. There are the expected outputs for the project:

1. The IM UTeM system can support Windows 98 and above as platform.

Totally all users in the UTeM use the multifunctional of platform like windows XP and mostly of computer centre in UTeM are using the windows XP as platform too. The Windows platform easy to use, it suitable applies in the education and profession professional environment.

2. The IM system can use for transfer and download all type of file.

The users can messaging and transfer or download the all type of from their PC. It can make the IM system as the faster communication facility to university because when use this system, it can save the time to meeting all member group, just communicate in the system, at the same time they can transfer and download the file.

1.7 Conclusion

This chapter gives an overview of the system that will be developed. The topic covered in this chapter includes the introduction of the current system with the enhancement, objectives of the proposed system, problems that facing with the current system and scope of the system.

The proposed system is to existing IM system to resolve the problem in the UTeM environment. This system can be the best solution to communicate each other in personal in UTeM. All the feature and tool that will be added-on that system; hopefully it can help the UTeM to archive it mission and vision.

The next chapter is the literature Review and Project Methodology, studies will be conducted on several existing system that deals with messenger and file management in messenger. The next chapter will also highlight the methodology, and schedule or milestones of the project.