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JUDUL: FILESHARING FOR OFFICE SOCIAL NETWORK

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*** Tesis dimaksudkan sebagai Laporan Akhir Projek Sarjana Muda (PSM)**

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FILESHARING FOR OFFICE SOCIAL NETWORK

KOI KA SIANG

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2010

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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.

STUDENT : _____ Date : 25/06/2010
(KOI KA SIANG)

SUPERVISOR : _____ Date : 25/6/2010
(DR. AZAH KAMILAH MUDA)

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DEDICATION

To my *beloved parents*, my *family members*, and *my relatives* who have given me the encouragement, and even guided and inspired me throughout all the process of development in this project and my educational study.

To all my *best and dearest friends*, thanks you for all your helping and support, remember you always.

To all my *UTeM lecturers,* my Final Yeay Project *supervisor* and *evaluator* for their guidance, helps, and full support on completing this project.

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It is also my pleasure to take this opportunity to thanks all my family members, relatives, classmates, and fellow friends that helped me greatly on giving encouragement, opinion, and support.

Finally, the process of completing this project had help me a lot on how to develop a creative, interactive and better web application. From this project, I also gather much knowledge on the steps needed before develop a system. by using such knowledge, I hope I will use them well on my future carrier.

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ABSTRACT

The development of 'FileSharing for Office Social Network' project is focuses on creating a Social Networking platform for user to share any stuff they wish. This project is actually to fulfill the requirement of Bachelor Degree Project (or *Projek Sarjana Muda* in Malay) subject that compulsory for final year FTMK UTeM (University Technical Malaysia Melaka) student. In this project, the major software used is Adobe® Dreamweaver and there are few modules included, but the main modules are social networking and file sharing. Thus, all the contents of this project are based on the Internet, which is web-based system. Besides, this system will be developed according to the modularity as well as with the concept of human computer interaction (HCI) where the system will be designed using some fundamental interaction skills.

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ABSTRAK

Pembangunan projek "FileSharing for Office Social Network" ini adalah bertujuan dalam mencipta satu jaringan sosial untuk pengguna berkongsi apa-apa sahaja benda yang mereka inginkan. Pada hakitatnya, projek ini dilaksanakan untuk memenuhi keperluan subjek Projek Sarjana Muda yang wajib diambil oleh pelajar akhir tahun Universiti Teknikal Malaysia Melaka (UTeM). Dalam projek ini, perisian utama yang digunakan adalah Adobe ® Dreamweaver dan termasuk beberapa fungsi, tetapi fungsi utamanya adalah rangkaian sosial dan fail berkongsi. Jadi, semua kandungan dalam projek ini adalah berdasarkan daripada Internet, yang merupakan sistem berasaskan web. Selain itu, sistem ini akan dibangunkan dengan merujuk modularitas mahupun dengan konsep interaksi manusia komputer (Human Computer Interaction dalam English) di mana sistem ini akan direkabentuk dengan menggunakan beberapa asas kemahiran interaksi.

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LIST OF ABBREVIATIONS

AJAX	**A**synchronous **J**avaScript **a**nd **X**ML
AMD™	**A**dvanced **M**icro **D**evices
API	**A**pplication **P**rogramming **I**nterface
CPU	**C**entral **P**rocessing **U**nit
CRT	**C**athode **R**ay **T**ube
CS3	**C**reative **S**uite **3**
CSS	**C**ascading **S**tyle **S**heets
DBMS	**D**ata**b**ase **M**anagement **S**ystem
DVD-RW	**D**igital **V**ersatile **D**isc-**R**ewritable
ERD	**E**ntity **R**elationship **D**iagram
FSOSN	**F**ile**S**haring for **O**ffice **S**ocial **N**etwork
FTP	**F**ile **T**ransfer **P**rotocol
HCI	**H**uman **C**omputer **I**nteraction
HTML	**H**yper**t**ext **M**arkup **L**anguage
HTTP	**H**ypertext **T**ransfer **P**rotocol
I/O	**I**nput/**O**utput
ID	**Id**entity
IDE	**I**ntegrated **D**evelopment **E**nvironment
IE	**I**nternet **E**xplorer

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LAN	**L**ocal **A**rea **N**etwork
LCD	**L**iquid **C**rystal **D**isplay
OOAD	**O**bject-**O**riented **A**nalysis and **D**esign
PC	**P**ersonal **C**omputer
PDA	**P**ersonal **D**igital **A**ssistant
PHP	**P**HP: **H**ypertext **P**reprocessor
PSM	**P**rojek **S**arjana **M**uda
RAM	**R**andom **A**ccess **M**emory
RUP	**R**ational **U**nified **P**rocess
SLOC	**S**ource **L**ines **O**f **C**ode
SNS	**S**ocial **N**etworking **S**ite
SQL	**S**tructural **Q**uery **L**anguage
SSL	**S**ecure **S**ockets **L**ayer
TCP/IP	**T**ransmission **C**ontrol **P**rotocol / **I**nternet **P**rotocol
UAT	**U**ser **A**cceptance **T**est
UI	**U**ser **I**nterface
UML	**U**nified **M**odeling **L**anguage
URL	**U**niform **R**esource **L**ocator
USB	**U**niversal **S**erial **B**us
WiFi	**Wi**reless **Fi**delity
XAMPP	**X** **A**pache, **M**ySQL, **P**HP, and **P**erl

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LIST OF APPENDICES

APPENDIX	SUBJECT
A	REFERENCES
B	USER MANUAL
C	TERMS AND CONDITION OF FSOSN

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CHAPTER I

INTRODUCTION

1.1 Project Background

Looking back over few years ago, Internet usage been mainly driven by many portal and search engine, such as Google™. Now the rapid growth of social networking sites, such as Facebook®, has revealed a new trend of Internet usage. Social networking generally relates to services and tools that help users maintain and expand their circle of friends usually by exploit existing relationship. Social networking sites have shown potential to become the places on the Internet where many people spend most of their time, therefore making these sites the main entry point for online activity. Often time, these social networking sites can become the focal point of sharing information, such as links, multimedia, and music.

Although there are many website provide such file sharing system and social networking platform, there are lacks of features that may be useful to the users. Therefore, in this proposed project, the **F**ile**S**haring for **O**ffice **S**ocial **N**etwork (FSOSN) system combined these two (2) concepts of web application: file sharing and social networking, so that users not only sharing their file to other users, they also can post their status, edit personal details, search other users to chat and add them as friend (staff).

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Therefore, the main function in this system is help user to share their file or any stuff through Internet by uploading the file to the system's server and provide the hyperlink that linked to uploaded file. Such hyperlink can share to other users so that they can download the shared file.

However, before users want to access the file sharing and social networking function described above, they need to register as a new user of FSOSN and then login to this system. This step is necessary and required in order to distinguish the registered user from the public Internet user.

1.2 Problem Statements

Recently in the Internet, there are many social networking sites that provide some essential features such as add, remove, and search friend, chatting, online status, and more. On the other hand, file sharing website also have few basic services provided to user. That means if a social networking site user needs to share any stuff with other user, (s)he have go to another website that provide file sharing services. This is quite not efficiency for a user to connect and communicate with his or her friend.

Besides, the functions that provided by the file sharing service may not complete, such that user cannot enhance their file sharing method. For example, if the bandwidth of the Internet connection for a PC user is slow and limited, but (s)he still want to share stuff. Possibly achieving the shared files is the best solution to this type of problem. However, some of the file sharing service does not provide such function. They just providing simple upload and sharing functions only. Certain file sharing services even do not have any kind of simple functions within file management, such as file and folder browsing or instant achieve creation.

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In the present invention of file sharing within a social network, members of the social network are provided by only a simple set of virtual folders that no authorized for file sharing and anyone in that group can access it freely without any restriction permission. The shared folders in that social network site also not automatically maintained.

Thus, one of the effective solutions is integrate the file-sharing concept into social networking site so that user does not need to register another file sharing service anymore, and at the same time, communicate with other connected friends in social network platform.

1.3 Objectives

Although there have some websites provided file-sharing service and social networking platform to Internet's user, these service and platform not only missing certain useful functions, these two are independent and cannot be run together. This means that if a user want to share thing with other user, he or she need to go to search for any alternative way to share the interesting stuff.

In addition, various shared folders needs to designate for different levels of access. For example, public folders can be accessible to anyone, while private folders could be restricted to one or members of the social network. The file sharing folders would be provided as part of the social network online service, and thus, are maintained without user configuration.

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The objectives in this system are:

i. Allow registered user to search and add staff as friend, as other social networking sites.
ii. To provide an alternative and better way to share files through online.
iii. Provide user a directory and file browsing method on the server.
iv. Offer the way of manage the uploaded file: copy, move, and delete.
v. Enable user to manage permission their shared stuff, which is to certain user only.

1.4 Scope

The modules that will include in FSOSN system are:

i. Login and Registration
ii. User profile Update and Viewing
iii. User Search and Add
iv. User Chat
v. File Sharing that have same facility with other existing websites
vi. File Upload and Download
vii. File and Directory Browsing
viii. File Copy, Move, and Delete

The target user for FSOSN system is Internet user, which means this system is open public and free to use as long as the user is registered. Another identified user for FSOSN is administrator who responsible on checking status of membership and update content of web.

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1.5 Project Significance

Generally, the Internet user, especially for those who worked in either small or large company will earn benefit from this system since this system is using social networking concept. In general, social networking sites and other online services of the Internet currently offer a mix of features and tools, such as message posting board, games, or web log ("blogs"). Although in this project these feature will not covered, but instead the main features for this system that utilized by social network are file sharing and downloads since these features in a network computer is a well-known concept.

1.6 Expected Output

The expected output of this system is to produce one web-based system that can share any stuff user likes within a social network. Staffs can login or register into FSOSN easily to access whatever provided services they like. The provided services in this system are mainly divided into two (2): social networking and file sharing. In social networking, user can insert, update, and view his or her profile, add, remove, and search another staff as friend, chat, and message posting. While on the contrary, in file sharing service, user can upload and download file, manage shared file by some operations: browse, move, copy, achieve creation, and create a link for share the stuff.

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