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JUDUL: FILE TRANSFER SYSTEM

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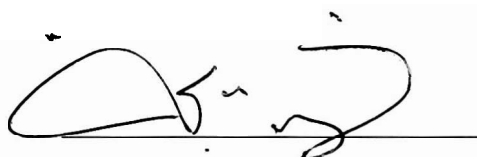
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FILE TRANSFER SYSTEM

KRISTY ELITY SULAIMAN

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

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2009**

DECLARATION

I hereby declare that this project report entitled
FILE TRANSFER SYSTEM

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

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DEDICATION

To my beloved parents, your care and your love give me the strength.

To my friends, it is for your continuous support and encouragement.

To my lecturer, for the guide and being critical, that gives me the challenge to be a better student.

ACKNOWLEDGEMENTS

During the completion of this project, I have gained so much knowledge and skill that help me to improve myself. I also get the courage and strength to face all problems that occurred throughout this project. Hence, here I would to thank all individuals that involved in the completion of this project.

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Apart from that, I also want to express my sincere thanks to my classmates who gave me the courage and support to move on until I finish this project.

Last but not least, I truthfully wanted to express my deepest thanks to my family who has gives me the motivation for the completion of this project. Thanks for your prayer and encouragement.

ABSTRACT

File Transfer System (FTS) is a system that provides file transfer function that have features of automatic transfer. FTS developed for any organization that need file transfer system in order to backup their important and critical data. The person that can consult this system is administrator. The transferring can be done automatically or manually depending to the administrator's setting. This system developed using Java programming language as the platform. The methodology that used for development of this project is SDLC phases. Analysis and study to the current existing research also existing system is done to elaborate more on the problem statements. The functional and non-functional of FTS is identified. This file transfer system is providing user with simple interfaces which promises easy to manage and easy to understand usage. FTS can run on Windows XP Service Pack 2 platform which installed the Java Development Kit as the requirement for this system.

ABSTRAK

File Transfer System (FTS) adalah sistem yang menyediakan kemudahan untuk memindahkan sebarang jenis data secara automatik. FTS dibangunkan untuk mana-mana agensi yang memerlukan kemudahan pemindahan data yang penting dan kritikal. Hanya seorang pengguna yang boleh menggunakan sistem ini iaitu pentadbir. Pemindahan data boleh dijalankan secara automatik atau secara manual bergantung kepada ketetapan yang ditentukan oleh pentadbir. Sistem ini dihasilkan menggunakan bahasa pengaturcaraan Java. Perkaedahan yang digunakan untuk menyiapkan projek ini ialah fasa-fasa dalam SDLC. Analisa dijalankan ke atas kajian dan sistem sedia ada untuk membantu dalam implementasi FTS. Sistem pemindahan data ini menyediakan antaramuka yang mudah difahami dan senang untuk digunakan. FTS mampu berfungsi pada *Microsoft Windows XP Service Pack 2* dengan instalasi *Java Development Kit (JDK)* sebagai keperluan kefungsi sistem ini.

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LIST OF ABBREVIATIONS

FTS	File Transfer System
FTP	File Transfer Protocol
ASCII	American Standard Code for Information Interchange
TCP	Transmission Control Protocol
SDLC	System Development Life Cycle
ICT	Information and Communication Technology
LAN	Local Area Network
RFC	Requests For Comment
TCP/IP	Transmission Control Protocol/Internet Protocol
ACK	Acknowledgement
IBM	International Business Machines
OOP	Object Oriented Programming
XML	eXtensible Markup Language
WAN	Wide Area Network
PC	Personal Computer
SDLC	System Development Life Cycle
IDE	Interactive Development Environment
JRE	Java Runtime Environment
JDK	Java Development Kit
NIC	Network Interface Card
OOAD	Object-oriented Analysis and Design
OSI	Open System Interconnection

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CHAPTER I

INTRODUCTION

This chapter is the early overview of this project which will initiate the implementation and developing the File Transfer System (FTS). Sub-chapters that will be discussed in this chapter are project background, problem that related to this project, the objectives that want to be achieve in this project the scope, project significance, expected output of this project and lastly the summary of this chapter that is the conclusion.

1.1 Project Background

File transfer can be best described as moving or copying files through two connected computer which form network. This program requires two computers that will act as client and server and connected using Ethernet network cable.

FTS is a software system that provides easy-to-use program which designed to automatically backup data during the time that has been set. This program also provides manual function which will reserve valuable data manually. Administrator can choose whether want to backup their data manually or automatically.

This system used the File Transfer Protocol (FTP) as the method of performing the file transfer. FTP is a network protocol which used to transfer data from one computer to other computer over a network. The FTP server will hold the server address and listening port. On the other hand, the FTP client must know the address and port number of the server to establish the connection to enable file transferring.

Most of the existing file transfer system nowadays is difficult to use and hard to understand. Also, the data backup service needs to be done manually which will cost any organization or company their time manner. Server may face failure at any time without any warning. In this situation, there is a high risk that data loss would happen.

FTS that will be developed is to help organization backup their important data. With this system, the organization or company doesn't have to worry with the safety of their data because it will be automatically reserved. They will only set the time when the transfer will be done.

1.2 Problem Statements

Some problems have been discovered with this system where new system is required to be implemented. The problems can be summarized as below:

- i. Some file transfer system did not provide automatic backup service where user has to do the reserve data manually. When it comes with manually, user sometimes forget to do the data backup and this will affect the organization or company.

- ii. Some existing system has no history for the files transfer that has been done. It is important to have a log file because it can be a reference in future.
- iii. Some of the available file transfer system nowadays is not user friendly where the interface is hard to understand and use complex function.

1.3 Objective

There are four main objectives to be established during completing this project. The objectives have been summarized as below:

- i. To establish connection between client and server.
- ii. To file transfer done automatically from client to server.
- iii. To produce log file.
- iv. To develop user friendly system that can be easily used. The interface is easy to understand and ease-of-use.

1.4 Scope

The scope of this project to develop a file transfer system that provides automatic data backup. Any type of data can be transferred such as file folder, ASCII text, executable binary, and spreadsheet file. The system will create connection between two computers to run the file transfer. For the time format, the format used is 24 hour format. The interface of this system developed using NetBeans 6.0 and TextPad 5.0 software and the prototype system is using java programming language. This system is targeted to be used by any organization or company that requires data backup service. The user will be the administrator who controls the data and server in the organization.

1.5 Project Significance

This project gives significance where the system can ensure important data to be reserve automatically at certain time which assigned by the administrator. Due to the automatic backup, company or organization can saves staff's time where staff doesn't need to do the backup manually. The log file that produce helps to keep history of the files transferred. Other than that, this project develops user friendly system that can be used easily by user. The interface is simple which is easy to understand.

1.6 Expected Output

This project will produce a system that provides data automatic backup. There will be a connection between two computers that allows all the important data to be reserved automatically. This system enables easy and quick data reservation to be done because it should has an easy to use interface. Also, the system that will be developed should provide history as a log for the files transferred. The log is stored in text file.

1.7 Conclusion

In conclusion, the problem arises when there is a situation where server fails to function and all important data will corrupt without any reservation. Nowadays system is difficult to use and hard to understand. This project will develop new system with a program that automatically backup important data. Four objectives need to be achieved as this project finish.

Next chapter will be discussing about the literature review and project methodology as the successor for the following chapter which will elaborate more information that required for the FTS that will developed.