

ONLINE FILE SHARING via SMS (OFS via SMS)

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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 COMMUNICATIONS TECHNOLOGY
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DECLARATION


I hereby declare that this project report entitled

ONLINE FILE SHARING via SMS (OFS via SMS)

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

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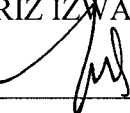
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DEDICATION

*To my lovely bonda Fiah Muhammad
And supportive ayahanda Mustappa Hashim..*

ACKNOWLEDGEMENT

In the name of Allah the Almighty and Most Merciful

First and foremost, I would like to praise upon Allah for letting me complete my Projek Sarjana Muda (PSM) project on time and with success. Next, I would like to express my gratitude to my supervisor for PSM, Cik Zurina Saaya, for helping and guiding me to understand the details for report writing and also the development of my project. I would also like to thank my beloved family for giving me support at all times.

Last but not least, I would like to convey my special thanks to all my friends and everyone involved for helping and giving me advice and cooperation throughout my project.

ABSTRACT

Online File Sharing via SMS application is an online web server application which allow user to download and upload from the database. This system allow user to download and upload data freely base of type of file. Online File Sharing via SMS application has four modules. First module download file module is a module allow user to download the file from the database. On this module, user will search the file database and after the search file has been found, user permit to download it. Second module is upload module. User need to fulfill all information about the file before proceed to upload it. In upload and download module, user has to request a new TAC (Transaction Authorization Code) to proceed download and upload function. Third module of this application is, send message. User allowed sending message to another user. This is a way user to communicate among user using this application. The last module is bulletin module. On this module, bulletin is listed on user and administrator page. User can post new bulletins into the web page which they can discuss more about their favorite file.

ABSTRAK

Online File Sharing via SMS aplikasi ialah laman web server secara *online* di mana laman web aplikasi ini membenarkan pengguna muat naik (*upload*) dan muat naik (*download*) fail tanpa had di dalam pangkalan data. Online File Sharing via SMS aplikasi terdapat empat modul di dalamnya. Modul pertama di dalam aplikasi ini adalah modul muat turun di mana pengguna perlu mencari fail di dalam pangkalan data dengan menggunakan sistem ini. Jika fail telah dijumpai, pengguna dibenarkan untuk muat turun fail tersebut di dalam computer pengguna tersebut. Modul kedua pula ialah modul muat naik di mana modul ini membenarkan pengguna untuk muat naik file untuk disimpan ke dalam pangkalan data. Di dalam modul muat turun dan muat naik, pengguna perlu meminta TAC (*Transaction Authorization Code*) menggunakan sistem ini untuk meneruskan proses muat turun dan muat naik fail. Modul ketiga pula ialah modul menghantar mesej dimana membenarkan pengguna menghantar mesej di antara pengguna. Modul terakhir di dalam sistem ini ialah modul berita dimana pengguna boleh menghantar berita terkini mengenai fail kesukaan mereka dengan menggunakan sistem ini.

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LIST OF ABBREVIATIONS

OFS	Online File Sharing
SDLC	Software Development Life Cycle
DFD	Data Flow Diagram
ERD	Entity Relationship Diagram
LAN	Local Area Network
MySQL	My Structure Query Language
TCP/IP	Transmission Control Protocol/Internet Protocol
GSM	Global System for Mobile Communication
HTML	Hyper Text Markup Language
TAC	Transaction Authorization Code
SMTP	Simple Mail Transfer Protocol
HTTP	Hyper Text Transfer Protocol
SMS	Short Message System
PHP	Personal Homepage Hypertext Preprocessor
USB	Universal Serial Bus
SDMS	Simple Document Management System
ATM	Advance Transfer Manager
ZIP	Zone Information Protocol
ACL	Access Control List
PSM	Projek Sarjana Muda

CHAPTER I

INTRODUCTION

1.1 Project Background

File sharing application is a standard internet protocol which is allowed user (e.g. normal user and admin) to exchange files between computers over the Internet. Like the Hypertext Transfer Protocol (HTTP) which transfers display able Web pages and related files, and the Simple Mail Transfer Protocol (SMTP) which transfers e-mail, file sharing is an application protocol that uses the internet TCP/IP protocols. The file sharing application is a software application which is designed to redistribute such as file in text document, picture format, audio and video on the network, typically on all file station across the internet or LAN. File sharing is commonly used to transfer web page files from their creator to the computer that acts as their server for everyone on the Internet. It's also commonly used to download programs and other files to your computer from other servers. A file sharing network allows computer hardware and software to communicate without the need for special server devices. As we can see, the original file sharing specification is an inherently insecure method of transferring files because there is no method specified for transferring data such as using SMS system to request TAC (Transaction Authorization Code) and no access lists permit methodology from each file which user can easily modify and delete the file in database. By developing this application with SMS system and access list permit, the entrusted cannot easily modify or delete

the file in file sharing server. This application will be monitored by administrator which admin can monitor uploading and downloading file from the user.

Using Online File Sharing via SMS application to download and upload file can greatly enhance file sharing concept because files are downloaded more quickly. The quality of file transfer depends on how many users are uploading the data. Overall, Online File Sharing via SMS application is an online web base system that user can upload and download freely any file they want. In this system, user can upload and download their favorite file and share among other user. This system will use PHP and java programming as a language and Macromedia Dreamweaver MX as a platform or interface of this system.

1.2 Problem Statement of Online File Sharing via SMS Application

Most of file sharing service that provide by operating system is not included SMS system and access control list. The common problems in file sharing application are:

1. Data can be edit easily

- Based on file sharing services when user shared folder on the network and on the same time other user can read the file. Then make some entrusted person edit on those data.

2. Data confidentially can be uploaded and downloaded by anybody

- Based on simple file upload software, user easily uploaded and downloaded the data without care about the data is confidentially. This is because, there lack of security term in file sharing application.

3. No communication between user in their file sharing

- User need communication each other to negotiate about the requested data from other user.

1.3 Objectives of project

There are several objective want to be achieve on this project which are:

1. To provide file sharing through internet.

To let user share any type of file using through the internet. User can upload and download freely using this application.

2. Provide more security on online file sharing application.

On this application, SMS system and access control list will be implementing to provide more security. When user wants to upload or download the file from server, user has to request TAC (Transaction Authorization Code) to continue upload or download the file. Encryption on user password also been implemented to avoid entrusted person sniff the user password.

3. To user can send message to other user.

User can send message to other user by in different location to communicate with other user.

4. The data access can be controlled by administrator.

The data accessing of other person can be controlled by determine the access control list method for each data. It also to avoid lose data from server

5. The data more manageable.

Data can be more manageable and safety. User can search any keyword that related to data in database.

1.4 Scopes of project

- 1 Provide upload and download file
 - This module allows user upload their favorite such as picture format, audio, movie and data file to share to the network.
- 2 Provide security features in online file sharing application
 - On this application, SMS system will be implementing to provide more security. When user wants to upload or download the file from server, user has to request TAC (Transaction Authorization Code) to continue upload or download the file.
- 3 Access list method as a security method
 - On this application, access list method will be applied to make the data are confidentially and more secure which is the entrusted person will be cannot easily modify or delete the data.
- 4 Supported only window platform
 - This application only can be run on Window operating system such as Window XP, Window 2003 server, Window ME and Window Vista.
- 5 Data can be more manageable and safety. User can search any keyword that related to data in database.

1.5 Project Significant

This application will provide multifunctional file sharing application and friendlier user. The significance of this application is:

1. Benefit of the system, user can make their data more secure from entrusted person to modify or duplicate the data. It is because user will determine the access list type of data before they upload the data into the system. Other user cannot easily edit the data and make that data as a commercial product. SMS system will be implemented for this system, firstly user must request TAC (Transaction Authorization Code) to continue upload and download file from the server. TAC stands for Transaction Authorizations Code which is a unique 6 code. The code will be a compulsory requirement for specific online transactions. The TAC code computer generated. With all those method, the data confidentially secure.
2. File transfer are more manageable and safety. User does not need to go from one room to other room to copy a needed file. They can share and work on files using different computer on the network. They just make a request and other person will upload the data on the system. User can also data request on message board which all user can add view the comment on that page. The file sharing is similar like documentation management. The different is the project manage file with access list type for the uploaded file.

1.6 Expected Output

- 1 User account
 - This module is developed for user or client purpose. The user will be register through this web application and will be approved by administrator. This module allow user to download and upload the data on the file sharing database. User also can request the data from other user by sending message.

- 2 Admin account
 - This module is developed for user management purposes. It is for the administrator's use only because access level is set to level admin. By default, only one administrator is allowed to use and control this web system. The menu for administrator account is to view fresh new user's information who wants to use this web system to see their personal information like user id, full name, IC number, email and address. View users profiles are important because user can access to the web system with permit access by administrator. Administrator can accept or not user who register to use this web system.

- 3 Access List method on each data
 - Access list method will be applied to this web application. It is because to make the data are more secure from entrusted person from modify or delete the data from file sharing database.

- 4 Display information about the data in the file sharing database that can view by user and administrator.

1.7 Conclusion

As the conclusion, the file transfer with access list is the combination of two tools that consist of the file sharing which are SMS system and access control list. These web based application can be accessed by user authentication through LAN network. File sharing will help user to share data and user can determine the access list method for their data. When user wants to upload or download the file from the server, user has to request TAC (Transaction Authorization Code) to proceed with uploading and downloading the file. So the data are more secure from the outsider or entrusted person. This web application will be monitored by administrator which admin can monitor through the network.

So hopefully this application can fulfill the features of network security, file sharing and network communication concept. From this chapter, the problem statement, objectives, scope, project significance and expected output are being identified in order to develop the application that will be used by the target users.

After finishing this chapter, it will bring to the second chapter that is the literature review and project methodology.