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Pokhara University Affiliate

**LA GRANDEE INTERNATIONAL COLLEGE**

Simalchaur, Pokhara

Final Defense

on

File Sharing System

Submitted to:

La Grandee International College

Bachelor of Computer Application (BCA)

Program In partial fulfillment of the requirements for the degree of Program Name under Pokhara University

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# Acknowledgement

We would like to thank our project supervisor Mr. Sunil Pandey for the proper guidance and cooperation for the development of our project. We would like to thank La Grandee International College for providing us good guidance and constructive suggestion that help us in the successful development of our project.

With Regards,

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# Declaration for

# “File Sharing System”

# Student’s Declaration

We hereby declare that we are the only authors of this work and that no sources other than the listed here have been used in this work.

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Supervisor’s Declaration

I hereby recommend that this project entitled “File Sharing System” is done under my supervision by Rakesh Chhetri, Prakash Basnet, Niraj Bohara and Santosh Baniya during their 6th Semester in partial fulfillment of the requirements for the degree of BCA under Pokhara University is completed to my satisfaction and be processed for final evaluation.

Mr. Sunil Pandey

Date: 2022-09-16

# Letter of Approval

We certify that we have examined this report entitled “File Sharing System”, and are satisfied with the project defense. In our opinion it is satisfactory in the scope and qualify as project in partial fulfillment of the requirements for the degree of BCA under Pokhara University.

Mr. Sunil Pandey Mr.

Date: 2021-10-26

# Abstract

This project is concerned with file sharing systems. Recently, with the advancement in technology, there has been a drastic change in the way information is shared over the internet. This involves the various channels in which files can be stored and shared. Cloud sharing is a relatively new technology advancement which has been steadily taking over more and more market share in the past three years. The cloud file sharing technique makes users share files among each other with ease, easy to setup, and open-source. Cloud file sharing is publicized as the next major step for all forms of typical information technology use. From businesses, to non-profit organizations, to single users, there seems to be various applications which can use cloud file sharing or storage in daily computer usage, to offer a better, faster, and smarter way to share important document. This paper aims to build a cloud-based file sharing application, offering users the power to share files via cloud networks in the palm of their hand.

Table of Contents

[List of Figures i](#_Toc114223917)

[List of Abbreviation ii](#_Toc114223918)

[1. Introduction 1](#_Toc114223919)

[2. Problem Statement 2](#_Toc114223920)

[3. Objectives 3](#_Toc114223921)

[4. Background Study 4](#_Toc114223922)

[5. Methodology 5](#_Toc114223923)

[5.1 Analysis 6](#_Toc114223924)

[5.2 Design 7](#_Toc114223925)

[5.2 Testing 12](#_Toc114223926)

[6. Project Gantt Chart 13](#_Toc114223927)

[7. Deliverables: 14](#_Toc114223928)

[8. Conclusion: 15](#_Toc114223929)

[9. Future Advancements: 15](#_Toc114223930)

[10. References: 16](#_Toc114223931)

# List of Figures

[Figure 1 Iterative Model 5](#_Toc114223932)

[Figure 2 Flowchart 7](#_Toc114223933)

[Figure 3 Context Level Diagram 8](#_Toc114223934)

[Figure 4 DFD For Login 9](#_Toc114223935)

[Figure 5 DFD for file upload and download 10](#_Toc114223936)

[Figure 6 E-R Diagram 11](#_Toc114223937)

[Figure 7 Gantt Chart 13](#_Toc114223938)

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# List of Abbreviation

* HTML: Hypertext Markup Language
* CSS: Cascading Style Sheet
* SQL: Structure Query Language
* PHP: Preprocessor Hypertext
* BCA: Bachelor of Computer Application
* DFD: Data Flow Diagram
* FTP: File Transfer Protocol
* P2P: Peer-to-Peer
* LAN: Local Area Network
* E-R: Entity Relationship

# 1. Introduction

File sharing is the practice of distributing or providing access to digitally stored information, such as computer programs, multimedia (audio, images and video), documents, or electronic books. File sharing web application is used to upload any types of files like pdf, mp3, word, etc. into a database and can download those types of files from the database. This application is developed by using HTML, CSS, JavaScript and PHP.

Online File Sharing is a practice of sharing files among different users across the internet. Common forms of file sharing are FTP (File Transfer Protocol) model and P2P (Peer-to-Peer) file sharing network. Another common form of sharing files over the internet is for a user to upload files to a website and allow other users to download them from the website.

# 2. Problem Statement

* Users of an online file sharing website who use features like upload, download, share, search etc. would want a website that is very interactive and fast and not annoying with a lot of post backs and flashing screens.
* Another issue is the visualization of the file system where users have a limit to upload files. The normal web-based file folder view would be good, but if there are other types of visualizations it would be great. Another important issue to consider is the location where the website stores the uploaded files.

# 3. Objectives

The major goal of this project is:

* To design a web application that is necessary for organization members when they need to operate online and access files.
* To promote a user-friendly, efficient, safe way for users to upload and download files without being physically present at organization.
* To act as a backup of a important files and is secure.

# 4. Background Study

Currently the system used for storing and again retrieving the data is very costly and used at a large scale. No matters, the systems provide many operations along with data storage but they are paid system. So, because of this major disadvantage of the currently available systems, it is used by the premium users only i.e., paid users.

There are many such problems with the existing system. The main drawbacks of existing system are: - Expensive, Less-Secure & Unreliable.

# 5. Methodology

For this project we used Iterative model, as shown in the figure below:

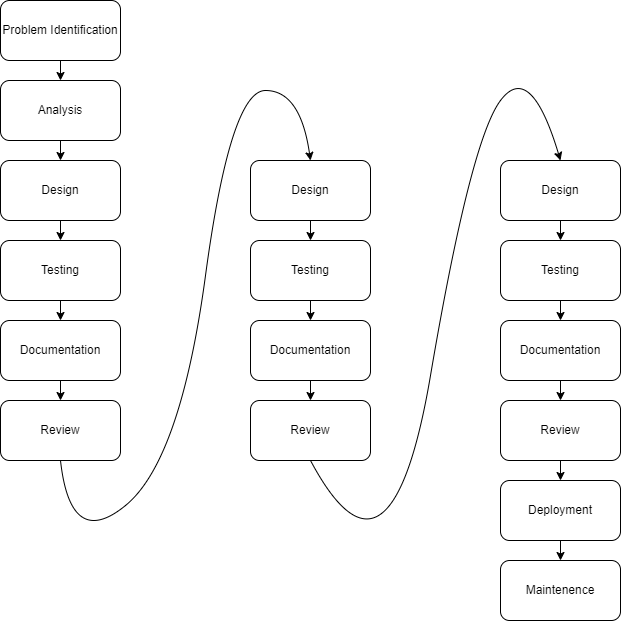
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Figure 1 Iterative Model

## 5.1 Analysis

Requirement Analysis is the first and most important step in the website development activity for building a user-friendly website. We have started working on determining the functionalities that the application should provide.

* Software Requirements:

-HTML: It is used to develop various pages and forms.

-CSS: It is used to place the components on pages and forms.

-PHP: It is used to carry data.

-JavaScript: It is used to perform logical calculations and looping activities.

* Hardware Requirements:

Though not necessarily interfacing with the hardware, the system must make use with an internet connection. For installation and use, requirements are almost zero. It can run on any computer system, regardless of the type of operating system used.

* Communication Requirements:

The system uses an internet connection to connect to the database. The code itself though, does not specifically direct the network controllers to do any work.

-MySQL database: Multiple systems communicate with each other using common database stored on main server and also it is an open source and feely available.

-LAN: for data transmission

## 5.2 Design

Flowchart

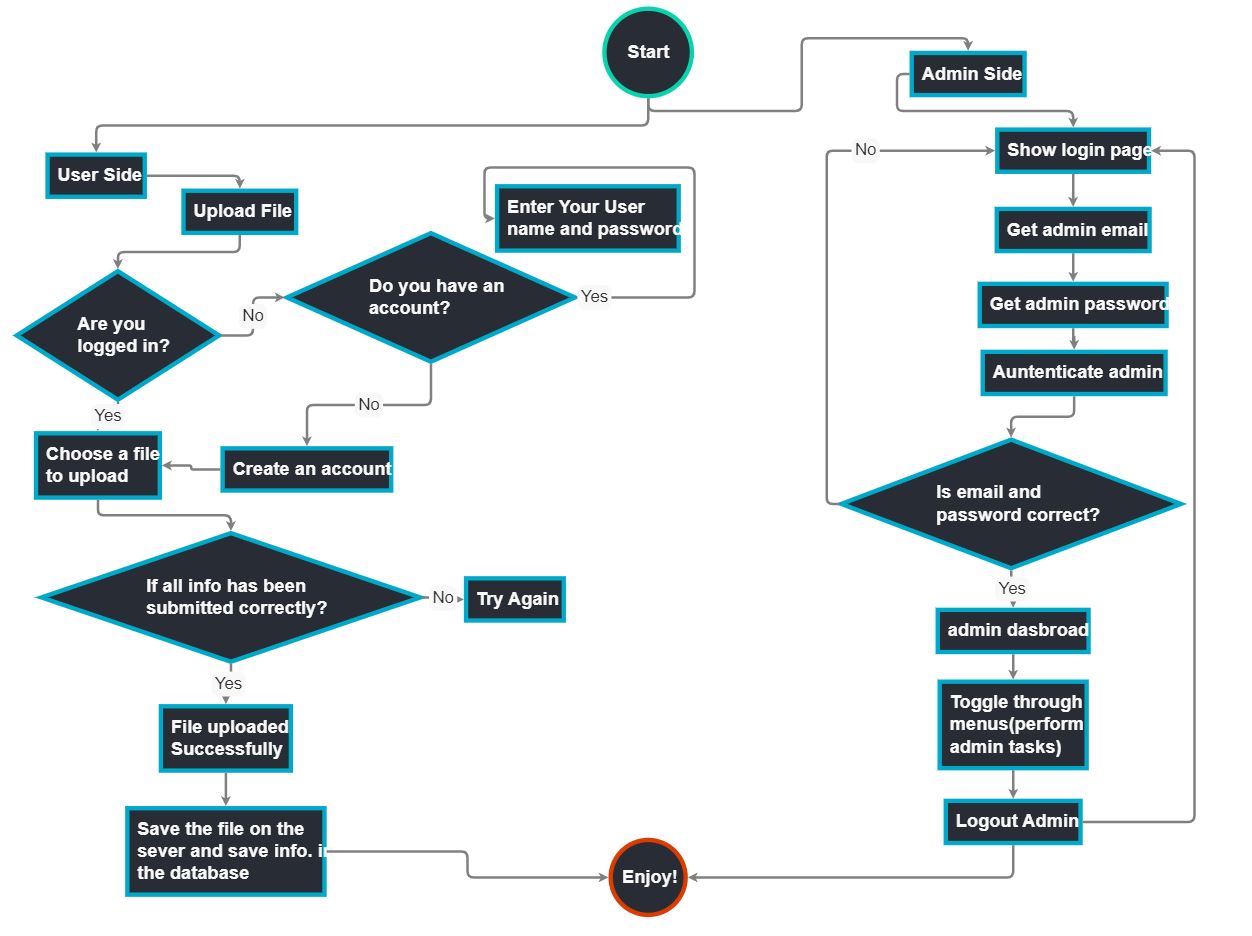


Figure 2 Flowchart

Context Level Diagram (DFD Level 0):

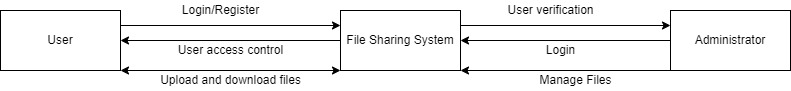


Figure 3 Context Level Diagram

Level 1 DFD for Login:

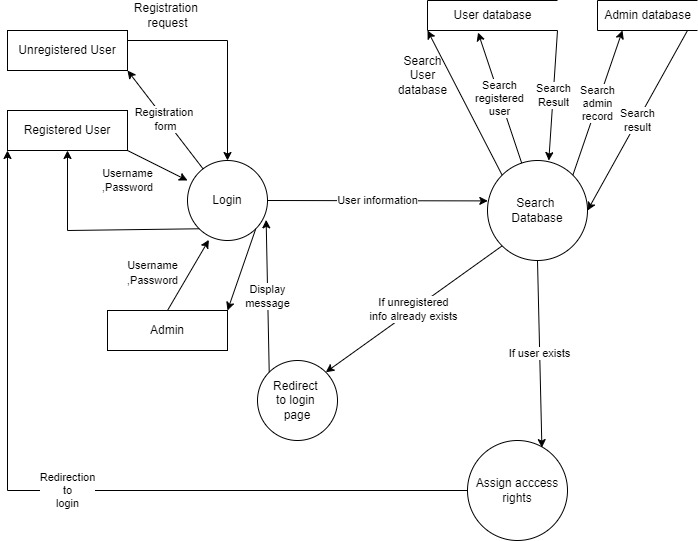


Figure 4 DFD For Login

Level 1 DFD for File Upload and Download:

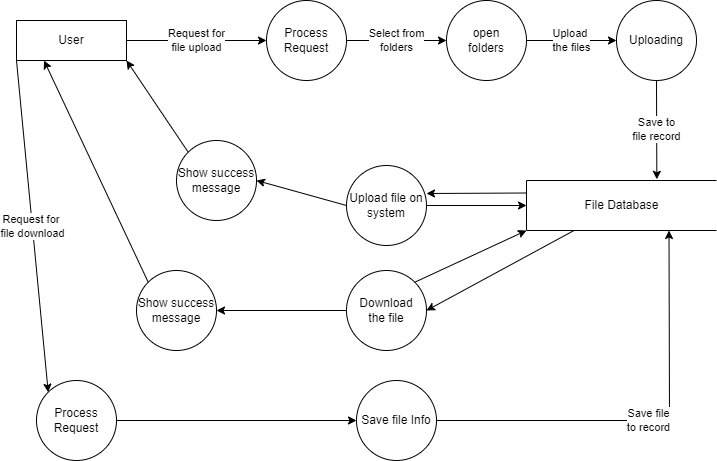


Figure 5 DFD for file upload and download

E-R Diagram:

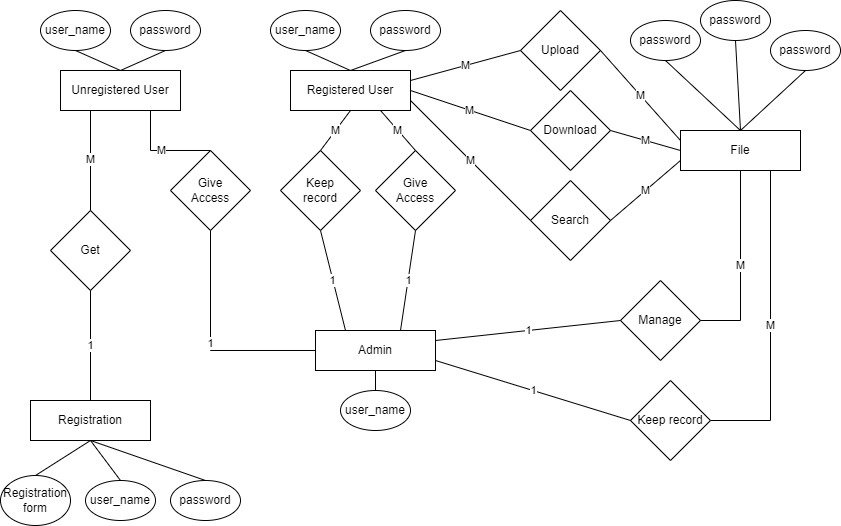


Figure 6 E-R Diagram

## 5.2 Testing

Testing is a process of executing a program with the interest of finding an error. A good test is one that has high probability of finding the yet undiscovered error. Testing should systematically uncover different classes of errors in a minimum amount of time with a minimum amount of efforts.

|  |  |  |  |
| --- | --- | --- | --- |
| TEST MODULE | TEST CASE | EXPECTED RESULT | TEST RESULT |
| ADMIN/USER | Provide valid login credentials | User successfully logged in and directed to the admin/user dashboard page | PASS |
| ADMIN/User | Enters invalid login credentials | Displays Error message | PASS |
| ADMIN | Upon successful login | Admin can get supreme access to the application | PASS |
| ADMIN | Add, edit, delete of new and old users | Admin can add remove new users and edit existing user’s details. | PASS |
| NEW REGISTERATION | Provide details for registration | New user successfully registered with the application | PASS |
| USER | Upon successful login | User can manage only his file and information | PASS |
| USER | Upon successful login  Click on ‘Documents-Add new’ tab | Users can upload there files which they want to share with others with description. | PASS |
| USER | Upon successful login, click on ‘Documents-list’ tab | List details of uploaded files and documents shown; user can also add, delete manage files. | PASS |
| USER | Sharing file | Users can share there file in form of link and can also share in mails. | PASS |
| USER | Downloading file | The link provided to download the file is running | PASS |
| USER/ADMIN | Logout | Redirects to the Login page of the application | PASS |

# 6. Project Gantt Chart

Figure 7 Gantt Chart

# 7. Deliverables:

After the successful creation of our project, it can fulfill a certain criterion for the end users. Some of the targeted pr expected outputs are:

* It would offer a secure, reliable file storage with easy to access.
* The cloud-based system can reduce the cost through sharing of peripherals and internet access.

# 8. Conclusion:

This system is a great benefit to small workstations,

where disk space is at a premium. A user can have access

to a much larger file when needed.

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This system is a great benefit to small workstations, where disk space is at a premium. A user can have access to a much larger file when needed. The use of an server to centralize file entries on various clients not only simplifies various operations, it helps maintain consistency of shared data files. When changes are made to a shared file, they become available to all users immediately. This concept also allows enhancing and implementing a fault tolerance mechanism. The framework allows the system to be easily scalable hence making it available to large number of users if the file sharing requirement goes on increasing.

# 9. Future Advancements:

Addition of user accounts and their various file access levels can also be implemented to achieve better file sharing environment according to the specific domain requirements. The security of the system can be enhanced by using encryption techniques for communication between various modules of the system. The list view of the file entries can be replaced by an explorer graphical view thus making it very user friendly to the user.

# 10. References:

* (2022). File Sharing. Retrieved from: https://www.techopedia.com/definition/16256/file-sharing
* (2022). Filesharing. Retrieved from: https://www.techtarget.com/searchmobilecomputing/definition/file-sharing