



Tribhuvan University
Faculty of Humanities and Social Science

Mini-Cloud Storage

A Project Proposal

Submitted To

Department of Computer Application
Butwal Kalika Campus

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted By

Rahul Thapa [10551145]
Madhav Prasad Ghimire [10551133]

3rd February, 2021

Abstract

Our proposal on “Mini-Cloud Storage” will be a web-based application. It will be a form of regular cloud storage as GitHub, GitLab, Box, Dropbox, One Drive, Google Drive etc. which provides user to keep their important data safe and accessible. Our project just focuses about file sharing rather than supporting file versioning, team collaboration, package subscriptions etc.

Cloud Storage is a model of computer data storage in which the digital data is stored in logical pools, said to be on "the cloud". It's a medium to share user's file to the cloud storage as a backup. The main objective of our project is to save copies of data and files as backup. That's way, if the original data or file is corrupted, compromised, or destroyed, a backup is available on the cloud with which to recover. Also, all this is available at a much lower cost than if one were to purchase all the physical devices necessary to hold the data.

Table of Contents

Abstract.....	ii
1. Introduction	1
2. Problem Statement.....	2
3. Objectives and Scope	3
4. Methodology.....	4
4.1 Requirement Identification.....	4
4.1.1 Study of Existing System	4
4.1.2 Requirement Collection	4
4.2 Feasibility Study	4
4.2.1 Technical	4
4.2.2 Operational	4
4.2.3 Economic.....	4
4.3 High Level Design of System	5
5. Gantt Chart.....	7
6. Expected Outcome.....	8
7. References	9

1. Introduction

While creating a site backup is essential for your website's security, storing your backups in a secure location is equally important. Unfortunately, many business owners rely on outdated storage solutions (such as flash drives or local servers), which can cause a loss of vital data and an increase in unnecessary headaches. That's where cloud storage comes in. This stores your data on dedicated servers, and provides unlimited accessibility wherever an internet connection is available, along with an increase in backup file security (given that your files won't be subjected to local server hacks or data loss). [1]

Cloud Storage is a digital storage solution that utilizes multiple servers (typically across multiple locations) to safely store files (such as site backups). In the past few years, cloud storage has grown in popularity and become a direct challenger to local storage, mainly down to the benefits it provides security, accessibility, and no maintenance required. [1]

2. Problem Statement

Before the system released, people backed-up their files in their system as a local storage. Users are using their external hard disk, pen drives, and other storage devices to back up their files which needs to buy those devices. Their hard disk may crash at any phase of time and they need to recover their files by paying huge amount of money while recovering. It is much expensive to buy those storage devices and also time-consuming process. Users are unable to access their files without those storage devices. User are unable to access their shared files from different location.

3. Objectives and Scope

General Objective

The main objective of our project is to connect many different devices together to enable the same files to be accessed from any device that uses it.

Specific Objective

In Order to achieve the general objective, the following specific objectives are needed.

- To provide cloud-based data security.
- To improve cloud-based file management.
- To implement efficient file retrievals.

4. Methodology

4.1 Requirement Identification

4.1.1 Study of Existing System

Before this system, people used to back-up their data or file in their own computer as a local storage and also in portable devices like pen drive, compact disk, external hard disk, floppy disk, DVDs and memory card. For accessing the data or files from another place, people need to carry their backed-up devices from one place to another. [1]

4.1.2 Requirement Collection

For the purpose of building a system according to what the customer wants, the involvement of the end-user from the starting of the project would be better. Considering this current pandemic situation, we have applied the information through correspondence method for accurate, realistic and specific information regarding our project. Apart of this, internet also have been a major platform to clear out doubts. [1]

4.2 Feasibility Study

4.2.1 Technical

Technical feasibility involves determining whether or not a system can actually be constructed to solve the problem at hand. The following points are considered for the project's technical feasibility.

- The required technologies (HTML, CSS, JavaScript & PHP) exist. [2] [3] [4] [5]
- The database management tool (MySQL Workbench) is technically capable to hold data required to use the new system, and a web server to serve.[6] [7] [8]

4.2.2 Operational

Operational feasibility asks if the system will work when developed and installed. The following points are taken into account for operational feasibility of the proposed system.

- The system will available for all the users with free of cost.
- It will be an easier way to back up their data on the cloud.

4.2.3 Economic

The system developed and installed will be good benefit to users. The system will be developed and operated in the existing hardware and software infrastructure. So, there is no need of additional hardware and software for the system.

4.3 High Level Design of System

High-level design (HLD) explains the architecture that would be used for developing the software. The architecture diagram provides an overview of an entire system, identifying the main components that would be developed for the product and their interfaces.

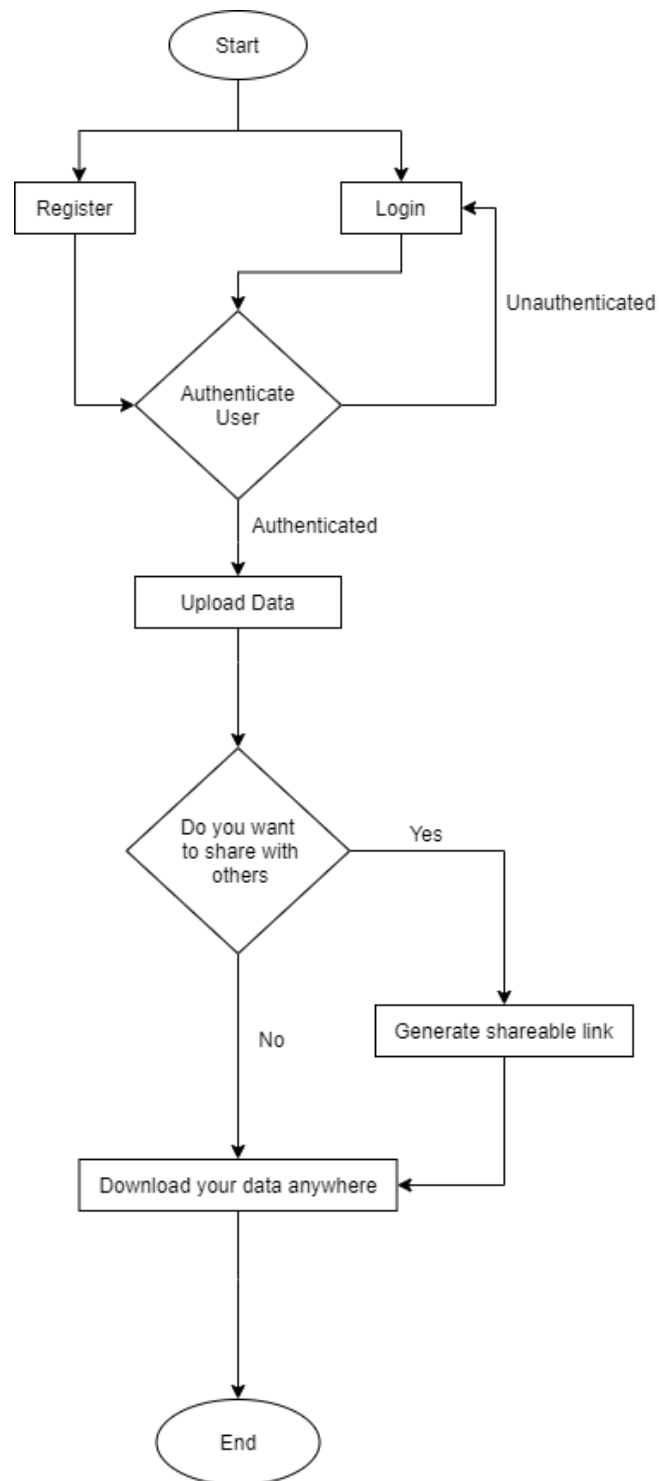


Fig: System Flowchart

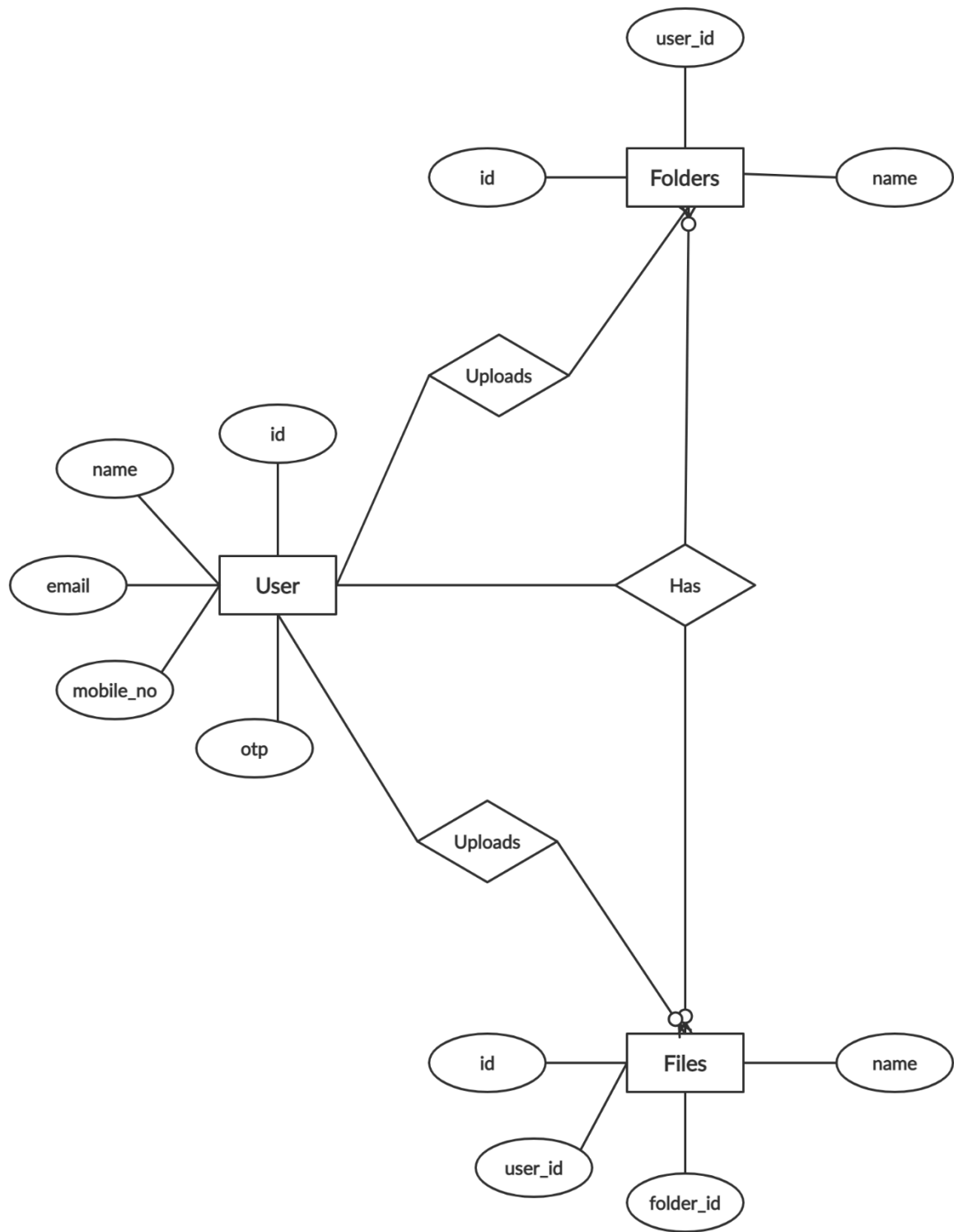
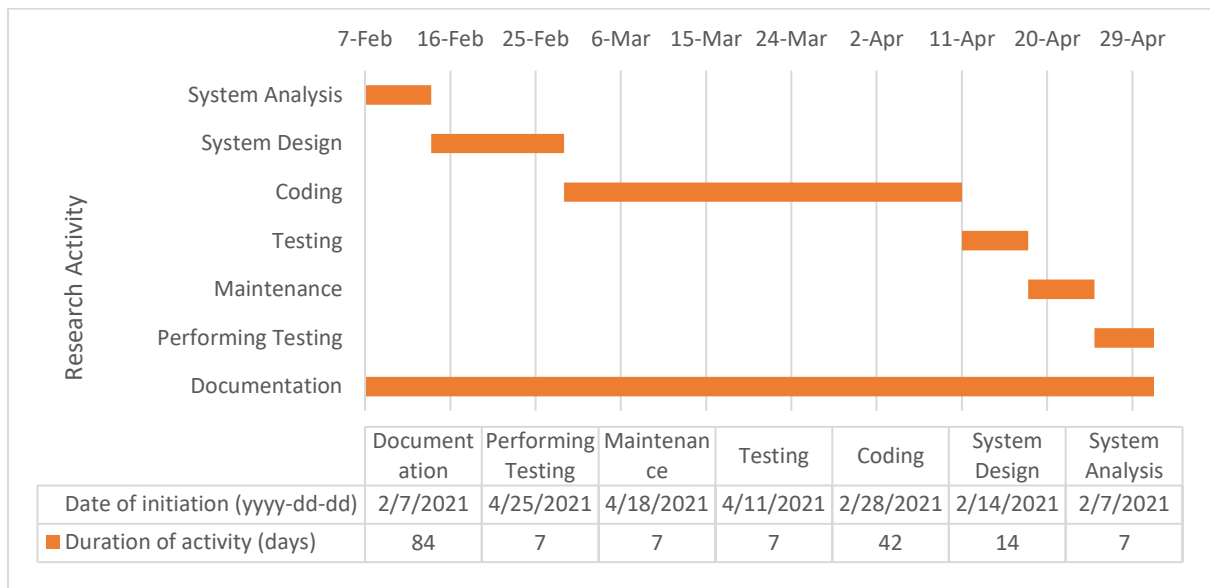


Fig: ER Diagram

5. Gantt Chart



6. Expected Outcome

In our “Mini-Cloud Storage”, following are expected outcome to those people who are facing problems like file crashing, corrupting, etc.

- ✓ User can back-up their files with free of cost at any place and at any period of time.
- ✓ User can access their backed-up file.
- ✓ User can share their backed-up files with by generating a shareable link.
- ✓ User can synchronize their files on different devices.
- ✓ User can able to download files using shared link.

7. References

1. https://en.wikipedia.org/wiki/Cloud_storage
2. <https://devdocs.io/html/>
3. <https://devdocs.io/css/>
4. <https://devdocs.io/javascript/>
5. <https://www.php.net/docs.php>
6. <https://dev.mysql.com/doc/>
7. <https://www.apachefriends.org/index.html>
8. <https://www.mysql.com/products/workbench/>