Tribhuvan University
Faculty of Humanities and Social Sciences

G(Group)-Share

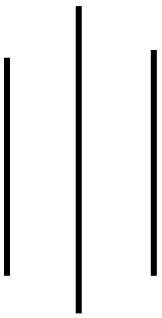
A PROJECT PROPOSAL REPORT

Submitted to

Department of Computer Application

Mechi Multiple Campus

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



Submitted by

Shakuntal Ghimire

Aadarsh Rai

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1. Introduction

G-Share is file sharing system that share stuff online, just as you would pass notes or lend books to friends. It lets you share documents, photos, and videos with anyone using the internet. You decide who can see or edit your files, similar to lending a book to someone. G-Share is easy to use and helps you upload files, create shareable links, and control who can access them. It's like a magical library where everyone can share and learn together, making things easier and more fun, whether it's sharing family memories or collaborating on a project. It's like having a superpower to effortlessly share documents, photos, and videos with anyone, anywhere. Imagine passing notes or lending books to friends, but in a digital world. With G-Share, you're in control - you decide who gets to see or edit your stuff. It's as easy as pie to upload files, create special links, and manage who can access them. Whether it's collaborating on a project or sharing family memories, G-Share makes it simple and fun. So say hello to hassle-free file sharing with G-Share!

2. Problem statement

There are many file sharing system that are already developed in the market. Some problems in Google Drive, while widely used, can be challenging to organize effectively, leading to inefficiencies in workflow management. AirDroid Web may lack advanced features and face compatibility issues. Dropbox, despite seamless synchronization, can be costly and lacks some advanced collaboration tools. iCloud's dependency on Apple devices limits cross-platform compatibility. Box may lack user-friendliness, hindering productivity. WeTransfer's temporary storage model can be inconvenient. OneDrive, despite Microsoft integration, may lack advanced collaboration features. Mega NZ may not integrate smoothly with third-party apps.

3. Objectives

The project team aims to create a basic and fully functioning version capable of managing the activities it is designed to undertake within the time frame allotted to this project.

Because the project team plans to maintain adding features to the program regularly, the following objectives will be covered in this development:

- To enhance organizational efficiency and productivity by providing a user-friendly file sharing system with advanced features, seamless compatibility across devices, and smooth integration with third-party apps.
- To offer a cost-effective solution that prioritizes convenience, eliminates inconveniences associated with temporary storage models, and incorporates advanced collaboration tools to streamline workflow management.

4. Methodology

4.1. Requirement Identification

File-sharing system involves understanding what users need and how the system should work. This includes figuring out who will use the system, how they'll log in, and making sure it's easy to use. Functionally, it means making sure users can upload and download files easily, find what they need quickly, and keep track of different versions of files. It's important to keep everything secure, so only the right people can access files, and to make sure the system works well even as more people use it. Also, it needs to follow rules about how data is handled and be compatible with different devices. Testing and support plans are crucial to make sure the system works as intended and users can get help if they need it. Overall, requirement identification is about making sure the file-sharing system does what users need it to do, simply and effectively.

4.1.1. Study of Existing System

After researching various file-sharing systems, we came to know that these platforms play a crucial role in simplifying the process of sharing files online. They offer users the ability to upload, store, and share files with others conveniently. Among the most notable platforms are Dropbox, Google Drive, and WeTransfer. Dropbox provides users with a user-friendly interface and offers a range of features such as file syncing, collaboration tools, and robust security measures. Google Drive, integrated with the G Suite, offers seamless integration with other Google services, ample storage space, and real-time collaboration features. We Transfer, known for its simplicity and ease of use, allows users to send large files quickly without the need for registration. However, while these platforms offer numerous benefits, they also have limitations. Some users may find the storage limits restrictive, especially for free accounts, and there may be concerns about data privacy and security, particularly for sensitive files. Overall, file-sharing systems provide valuable solutions for sharing files online, but users

should carefully consider their specific needs and the features offered by each platform to choose the one that best fits their requirements.

4.1.2. Requirement Analysis

The requirements of the system to be developed are divided into two categories. They are:

Functional Requirement

- User Registration and Profile Creation: Allow users to register, create profiles, and indicate their areas of interest.
- G-Share Creation and Management: Enable users to create and join , define group settings, and manage membership.
- Resource Sharing: Allow users to upload and share study materials, categorize resources, and engage in discussions.
- User Search and Discovery: Enable users to search the uploaded content uploaded by the publisher.

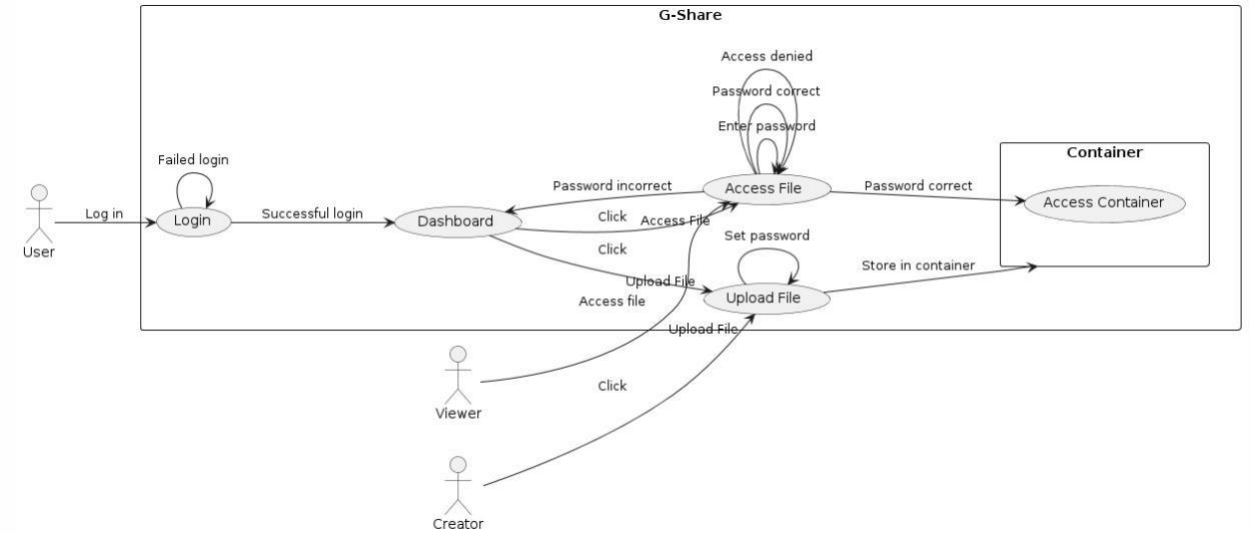

Figure 1: Use Case Diagram

Non-Functional Requirement

A non-functional requirement describes how the system performs a certain function. Non-functional requirements generally specify the quality attributes or characteristics of the system. The non-functional requirement of this system is described below:

- System uses an authentication through login process in order to differentiate user level**.**
- System can run in various web browsers which support the system environment.
- Performance**:** The performance requirement provides details specification of the user interaction with this application and measurements placed on the application performance. For the response time, it is fast enough to produce a result of the search in seconds, if the users have a proper internet connection. There is no any delay in processing the data.

- Reliability: G-Share is available to users 24X7. The user can access the system whenever they need to access, wherever they want to access provided having an internet connection and device to access.

- Usability: This system is designed with one motto which is to provide a user-friendly environment and ease of use to users.

4.2 Feasibility Analysis

The project team undertook a feasibility study for this project for several reasons, they are

1) Technical Feasibility Study

The following tools are used in the system are

Table 1:Technical Feasibility Study

SN	Tools	Availability
1)	HTML,CSS,JavaScript	Free
2)	PHP	Free
3)	MySql	Free

Each of the components used is free and easily available which goes to show that the suggested system is technically possible.

2) Operational Feasibility study

To establish the system's operational feasibility, we must analyze several criteria, including:

Table 2:Operational feasibility study

SN	Criteria	Outcomes
1)	UI	Incredibly user-friendly
2)	Deployment expenses	Acceptable
3)	User Training	Simple or Not Required

The project team estimated that maintaining and running the system after deployment would not be a major difficulty, indicating that the project is operationally feasible.

3) Economic Feasibility study

To determine if a project is economically feasible, we must analyze several criteria, including:

Table 3:Economic feasibility study

SN	Criteria	Outcomes
1)	Cost	Very Minimal
2)	Maintenance expenses	Extremely low
3)	Developer Payment	No Payment

The above-mentioned criteria impose no additional economic overheads, making the system economically feasible.

4.3. High-Level Design of System

4.3.1 Methodology of the proposed system

The project team feels that Agile methodology is ideal for designing the Study Group system.

Why Agile?

a. Because it provides for flexibility, adaptation, and continual development.

b. It promotes cooperation among developers, designers, and end users throughout the development process, resulting in a system that is more responsive to user needs and expectations.

c. Agile's iterative nature allows for rapid incorporation of input, allowing for faster delivery of useful features and a more user-centric approach to development.

d. Furthermore, the process encourages openness by providing stakeholders with visibility into the project's progress at each stage.

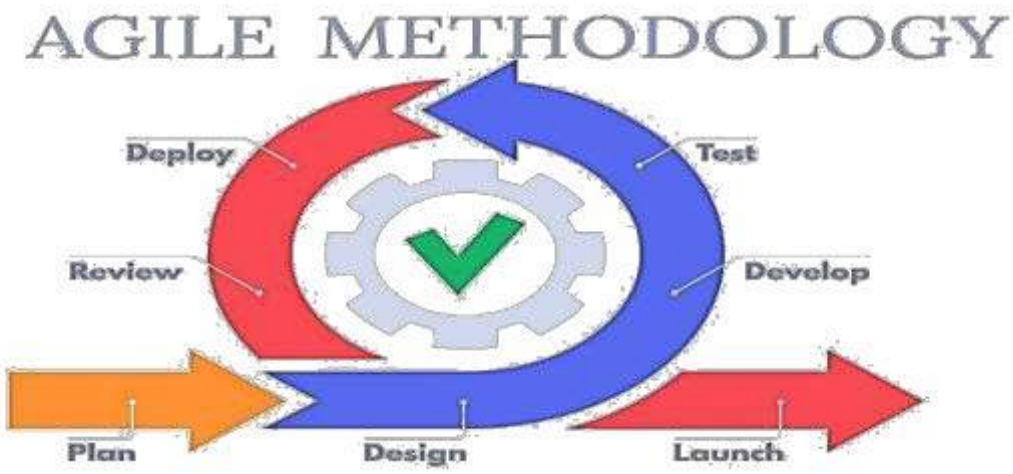

Figure 2: Agile Methodology

4.3.2 Working Mechanism of Proposed System

The G-Share application employs a user-friendly and straightforward method to promote successful cooperation and information exchange among its users. Users can create or join based on their needs after signing up. The platform offers a unified interface for users to uploads file and access the uploaded file in the system. Furthermore, G-Share is a resource-sharing tool that allows users to upload and exchange study materials, articles, and videos that are related to the group's subject. Because users may access a wide range of information and views, this encourages a diversified and thorough learning experience

Overall, the G-Share operating mechanism relies around the creation of a collaborative and interactive platform where users may share materials, generating an atmosphere favorable to successful learning and knowledge sharing.

4.3.3 Flow Chart

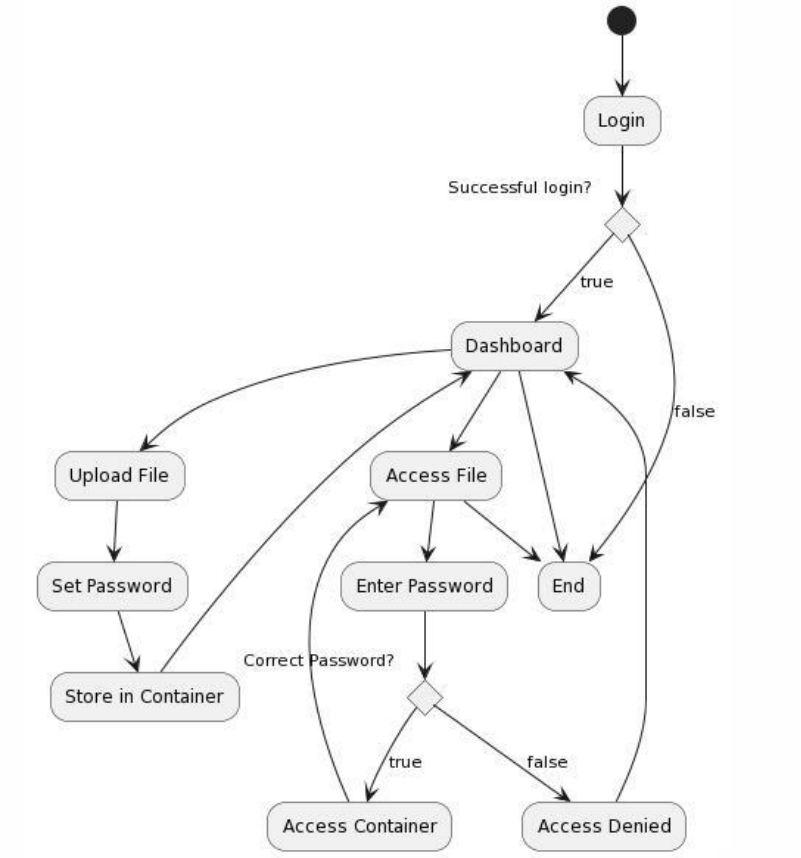

Figure 4: Flow Chart of system

5. Gantt Chart (showing the project timeline)

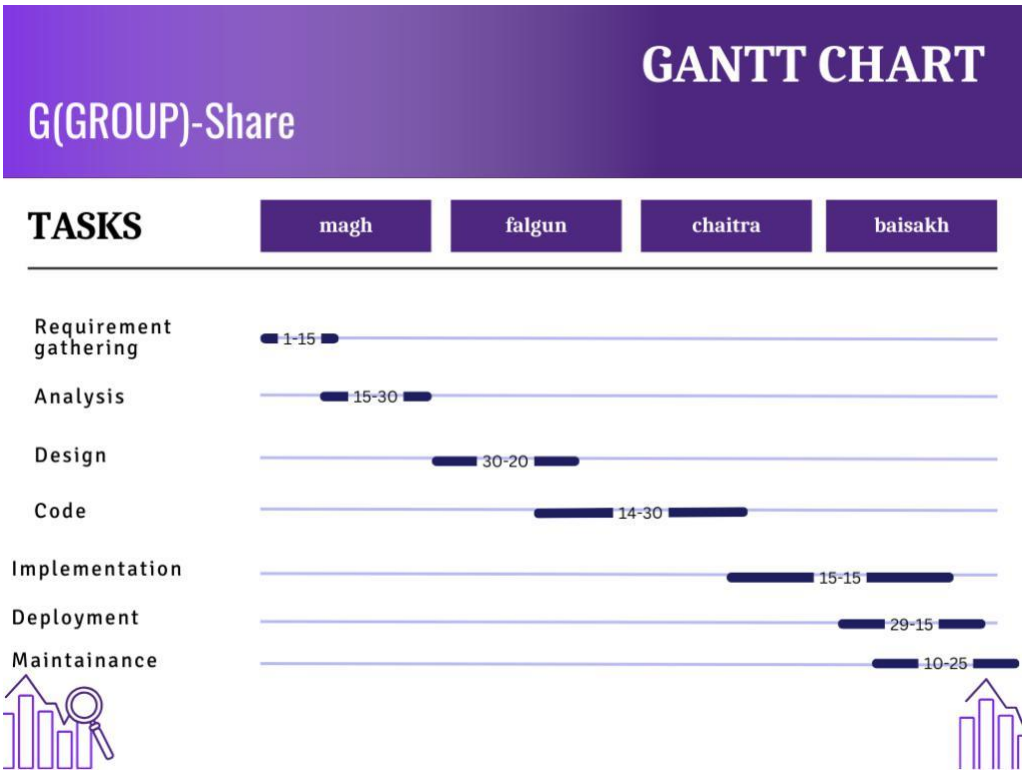

Figure 5:Gantt Chart

6. Expected outcome

G-share will aim to make sharing files even better, faster, and safer. It will work on improving how files are transferred, keeping them safe from hackers, and making the process simpler for users. It will focus on handling large numbers of files and users while following rules and laws about sharing. Researchers will also try to use internet resources more efficiently. By studying file sharing, they will learn how to deal with problems like viruses. Ultimately, this research could lead to new and better ways for people to share files, making it easier for everyone to work together and share information.

7.Reference

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