



A

Project Report

On

LDrive

Mini Project Report submitted to

Masters of Computer Application (SEM-I)

Of

University of Mumbai

Submitted by

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Under the guidance of

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Institute of Management and Information Technology

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BATCH: 2020-22



Bharati Vidyapeeth's
Institute of Management and Information Technology
Navi Mumbai.

CERTIFICATE

This is to certify that the mini project titled LDrive is successfully done by Mr. SOURAV SOCHAN PRAJAPATI during the end of Semester-I in partial fulfillment of **Master's of Computer Application** under the **University of Mumbai**, Mumbai through the Bharati Vidyapeeth's Institute of Management and Information Technology, Navi Mumbai carried out by him/her under our guidance and supervision.

Examiner

(Signature & Date)

Internal Guide

(Signature & Date)

Declaration

The main purpose of the LDrive is to share files with company employee and all from internet rather than a local file system in which we cannot download files which have been uploaded to the file system just because it was for within the network whereas LDrive helps you to do same but here you can also upload download from anywhere.

The user can not only upload the file but also he can share the file with certain access privileges which are public and private .public mean the every employee can download it and private mean certain employees can download it and on top of that you can also view files which you have uploaded without downloading it.

It is tried to develop the software with utmost care, but there may be some limitations, for the project is subjective to future enhancements as per the needs of the client.

Mr. SOURAV PRAJAPATI

(Signature & Date)

Acknowledgement

I avail this opportunity to express my sincere and deep gratitude to many who are a factor in helping me gain the knowledge and experience during the project and throughout the course.

I have great pleasure in presenting this project. The completion of this project is not merely due to only my own efforts but also due to the guidance given by our professors.

I am thankful to our project guide Prof. Shambhu Rai for his support. I also thank Dr. Suhasini Vijaykumar, Principal BVIMIT and respected faculty members for their kind support and help throughout the entire course.

I express my deep gratitude to my project guide Prof. Shambhu Rai for assistance during all the phases of project and without whom my project would not have been a success. I would also like to thank him for periodically evaluating my project documentation and monitoring the progress of project completion.

Finally I express my deep regards to all of those who stretch their helping in the execution of my project.

Mr. SOURAV PRAJAPATI

(Signature & Date)

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ABSTRACT

LDrive is a website which is used to reduce the burden of having to manually transport files and using other products such as usb cable, pendrive, etc. It used for Sending Files to server for storing it and downloading it from anywhere. This website follows mvc(model,view,controller) architecture. LDrive is a full-featured website for any kind of operating systems.

Easily send huge files from one device to another device using LDrive. Administrator and User can add different type of file types to upload and download files and can also view files at the same time. The file types normally,

- Word File
- PDF file
- Text File
- Images
- Video/Audio File

User is have to registered first. After registration admin approves users request and a mail has been sent to user along with password. A user must provide his credential like user Id and password for log into the system. For that the system maintains data for all users. Whenever a user enters his user id and password, it checks in the database for user existence. If the user exists he can be treated as a valid user. Otherwise the request will throw back. All registered user have access to upload and download any file on the website. For file uploading and downloading the system provides a good user interface for easy to use. User can save the downloading file with his desired location.

Object of project

The LDrive is a web based project. The Main purpose of this website will manage a file sharing site. The Company can create a employee's database, each one with his assigned folder. Within this folder, the employee can upload its files or download the one already in the folder already uploaded by the company itself.

When the company uploads a file in a employee's folder, the employee have to login to website using user id and password and will receive the file with a link to download it using the LDrive website. The employee can also login into the system any time and look for previously uploaded files.

LITERATURE SURVEY

The project LDrive is website created to reduce the burden of having to manually transport files and using other products such as usb cable, pendrive, etc and in case of internet failure the user can still access it if the Server is been hosted by the company.

This website is useful for employees of a company to upload, share, and download the files with specific user or publically and once he share the file he can also remove the access privileges of specific user.

When your company host the website the upload and download speed is around 80 MBPS which is really fast for uploading 10-20 GB of data and since admin can remove and approve users to access site it is pretty safe to upload and download and there is Economic benefit is since buying storage is getting cheaper.

DOMAIN KNOWLEDGE

LDrive is a website which belongs to technology domain such that this website will help employees to share files easily. Over the years technology has been growing fast and with so much information technology available that enables millions of companies and professionals to reach new levels of success, it is no wonder how much consumers spend.

There are many websites available on the web that can be different types like banking, organization etc. Each website have different type of approach and design as per the domain.

As I have some knowledge of technology domain like hardware, software and ability to use various technologies, technological tools, and associated resources. We decided to create this website to avoid unnecessary sending of mails and easy to access.

Technology domain is now developing faster and processing more and more so we need to keep ourselves updated frequently for that change all we require is to learn new skills and concepts with speed and efforts.

SYSTEM STUDY

FEASIBILITY STUDY

LDrive website is dumb project, so feasibility study is not carried out.

Problem Definition

When we are using company's file system for sharing files it is been locally shared and if you need that file your either need to connect a pendrive and copy document or you need to mail it to yourself But mailing it is not always an option because the file size is limited to not more than 25mb .

When you want to share some documents to your pc you always need to have a USB cable to share and when you do so there are chances that you need to install drivers or the phone is bit old which hampers the speed of transfer and if you by mistakenly unplug it then the file share is of no use or if you doesn't have your USB cable in that case you just need to login to LDrive and you can share the file and once done you could download it from your pc.

SYSTEM ANALYSIS

The system after careful analysis has been identified to be presented with the following modules:

The Modules involved are

1. Administration
2. Users
3. File Uploading and Downloading
4. File Sharing
5. Registration
6. Authentication

Administration

Administrator has an authentication to monitoring the complete system. He can have all the privileges. Administrator can register users, and remove the registered users.

Users

User is nothing but a registered user. A registered user directly uploads information into the system. Before uploading he needs to specify his credentials for authentication.

The upload files have 2 types of priorities.

- Public priority
- Private priority

The definition of Public priority means, the files which are uploaded in to the system, those are shared by all the users which are registered in the system.

Private priority means, the accessibility of the uploaded file only by the user itself. Other users don't have any permission for downloading.

File Uploading and Downloading

All registered user having authority to upload any file on the website, admin can access all uploaded files. Based on the priority users can download file from the website. For file

uploading and downloading the website provides a good user interface for easy to use. User can save the downloading file with his desired location.

File Sharing

For every uploading file user can put priority. Private means no accessibility for other users. It's simply personal. Public means every user can access that file. Partial public means user can choose a list of other users and give accessibility.

Registration

The website has a process of registration. Every user need to submit his complete details in the form of registration. Whenever a user registration is completed, automatically password is provided to user. By using that password user can log into the website.

Authentication

Authentication is nothing but providing security to the system. Here every user must enter into the website throw login page. The login page will restrict the unauthorized users. A user must provide his credential like email Id and password for log into the system. For that the system maintains data for all users. Whenever a user enters his mail id and password, it checks in the database for user existence. If the user exists he can be treated as a valid user. Otherwise the request will throw back.

SYSTEM REQUIREMENTS

A System Requirements Specification is a structured collection of information that contains the requirements of a system.

The technologies required in this project are as follows:

➤ **Software**

- Windows 7 or above
- Eclipse IDE
- Google chrome
- JDK 1.8 or greater

➤ **Hardware**

- Intel Core i3-5005U CPU
- 1 GB RAM and Above
- 1 GB Hard Disk and Above

➤ **Database Server**

- MySQL Database Server

DESIGN APPROACH

Fig.1 : Work Breakdown Structure (WBS)

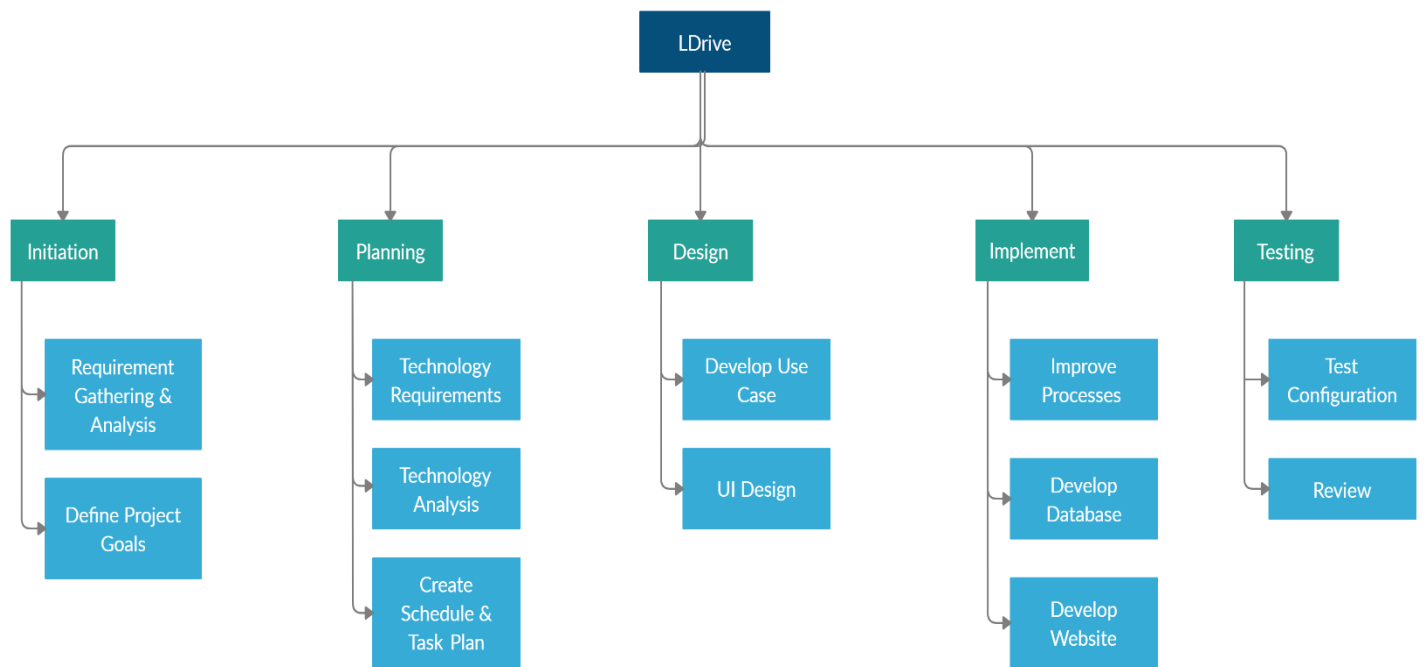


Fig.2 : TIME LINE

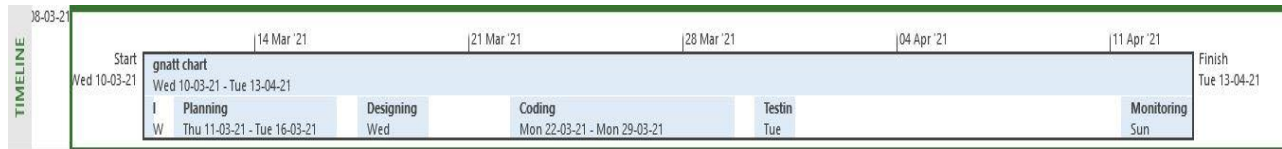


Fig.3 : GANTT CHART

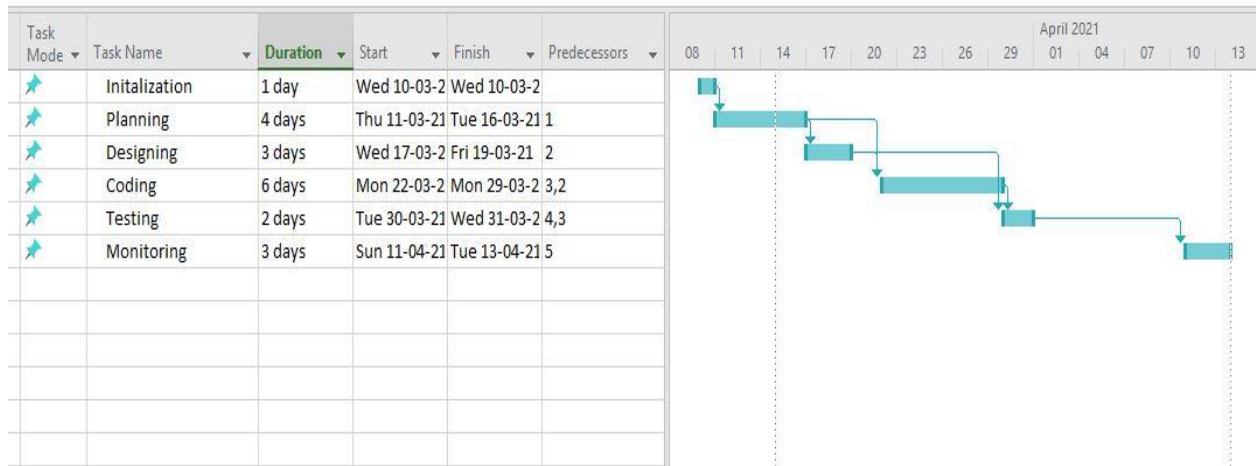


Fig.4 : NETWORK FLOW

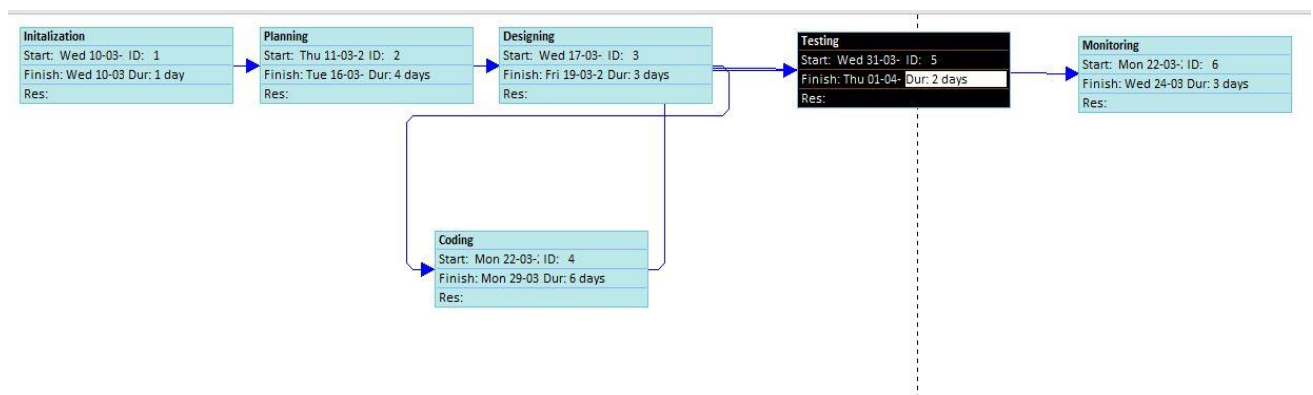


Fig.5 : USE CASE DIAGRAM

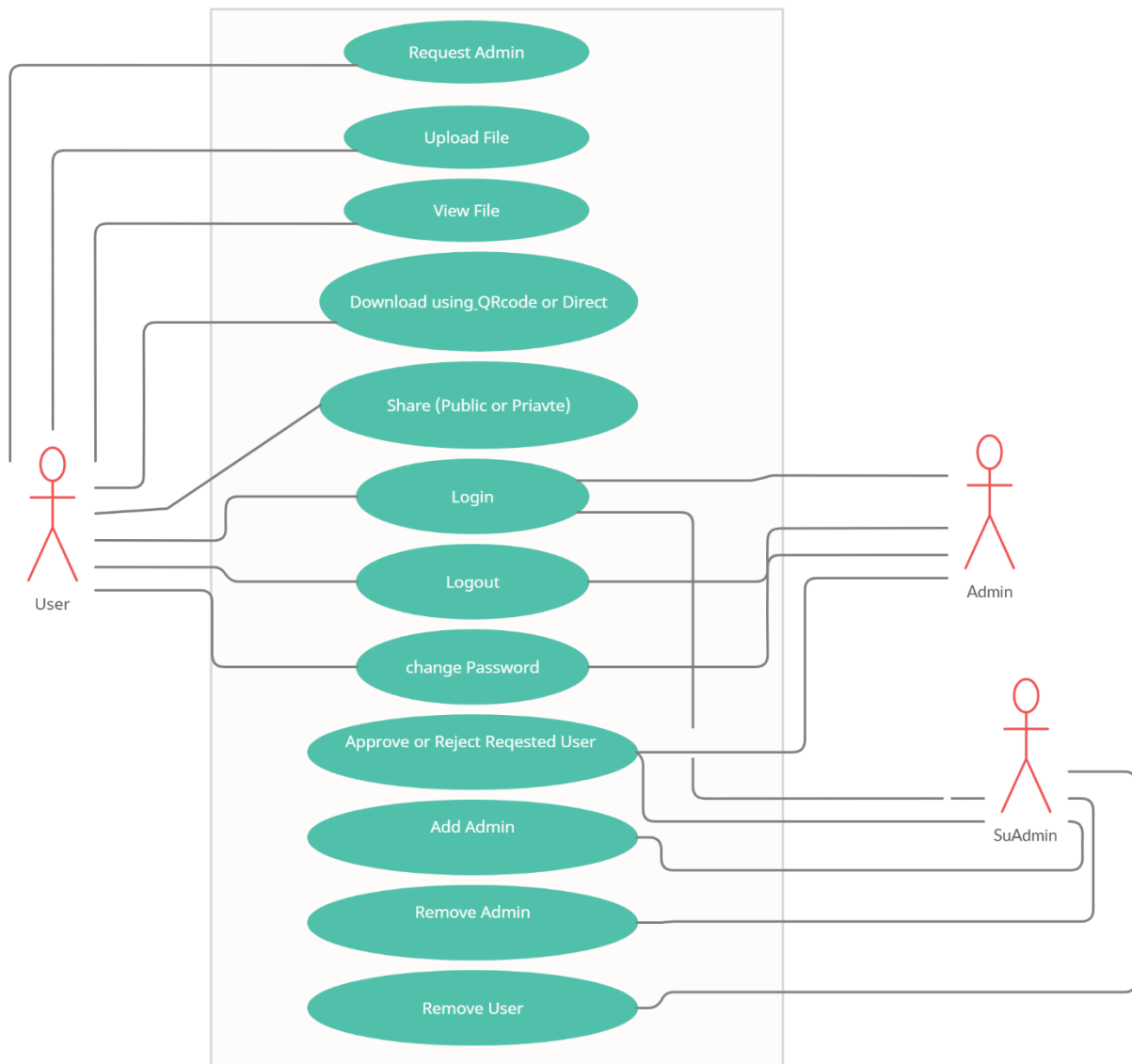


Fig.6 : CLASS DIAGRAM

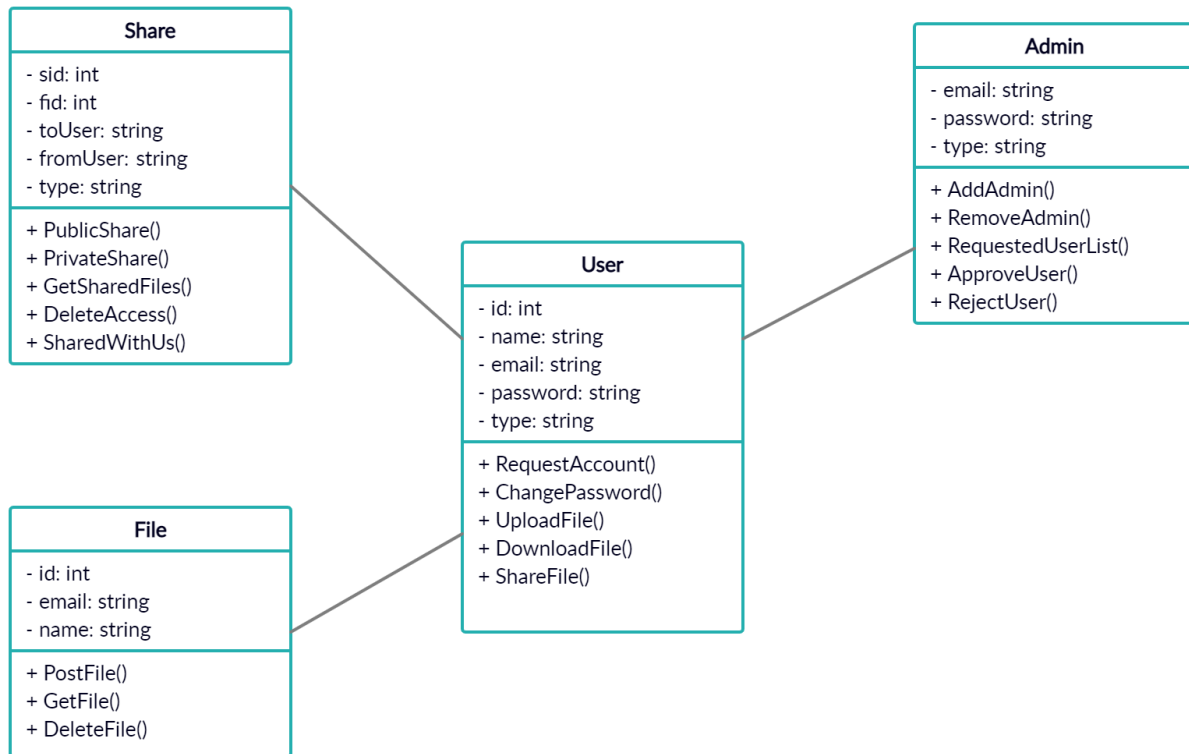
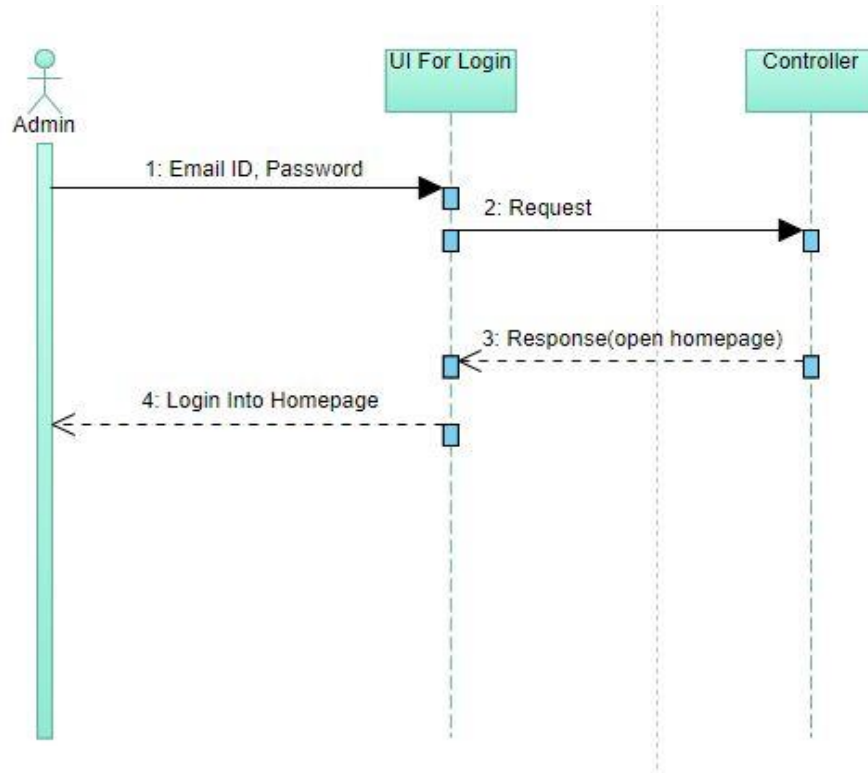
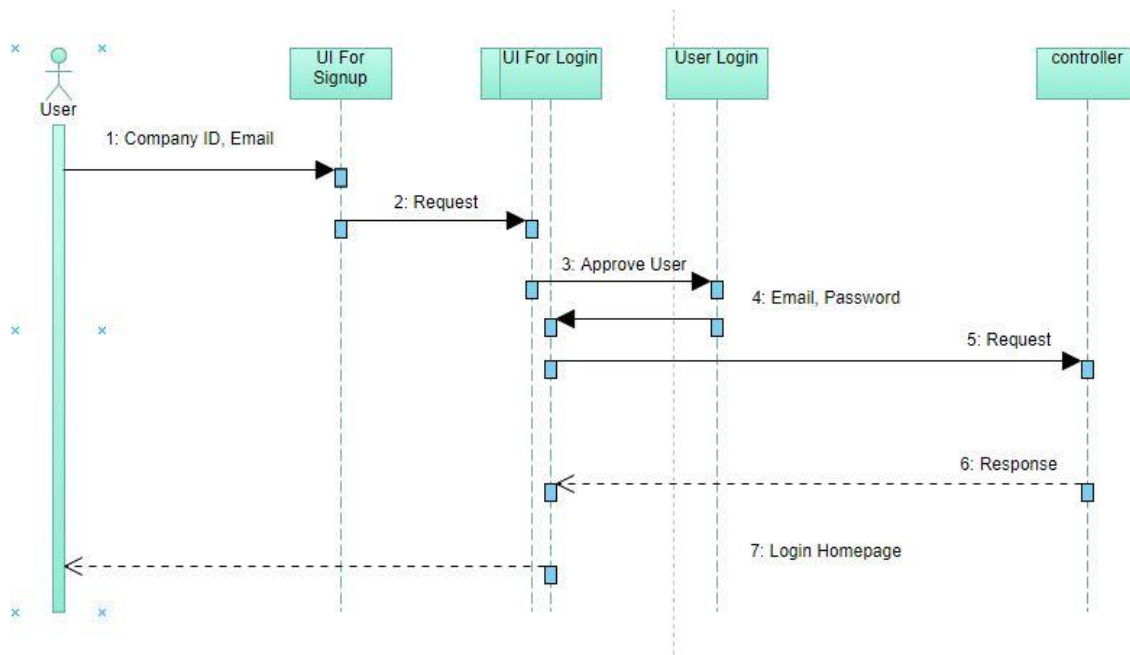


Fig.7 : SEQUENCE DIAGRAM

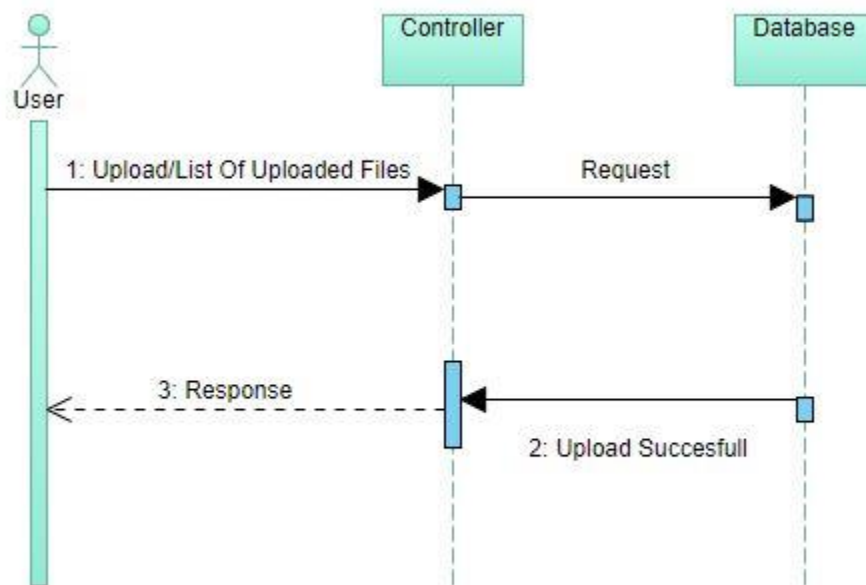
Admin Login –



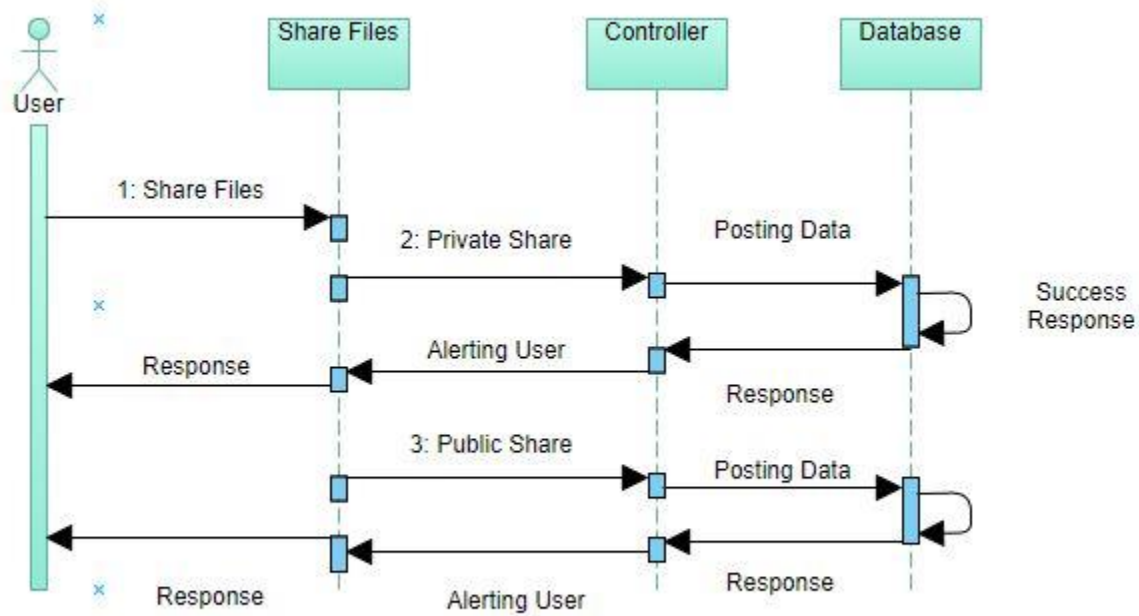
User login –



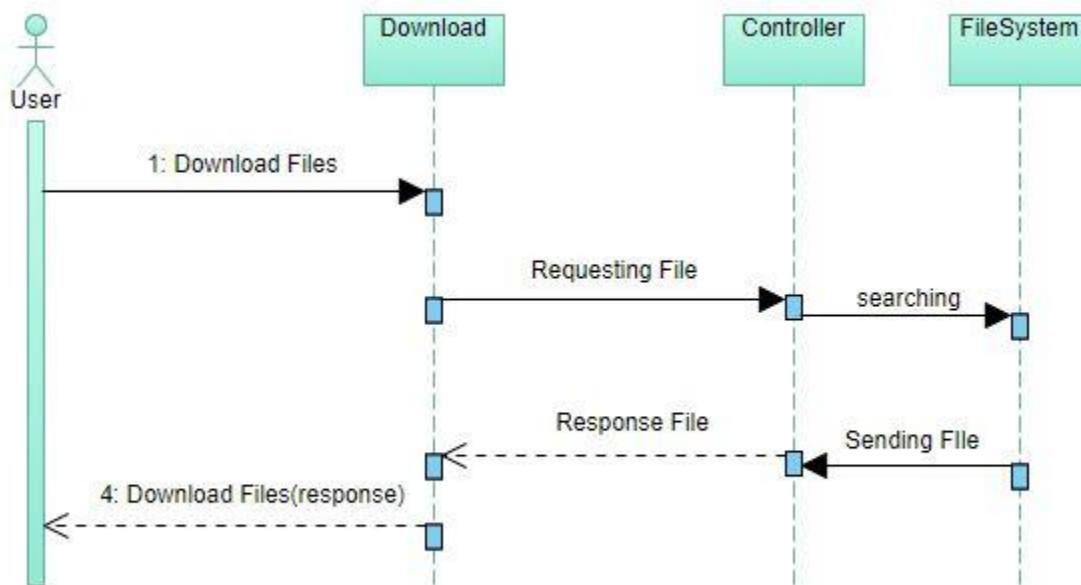
Upload File –



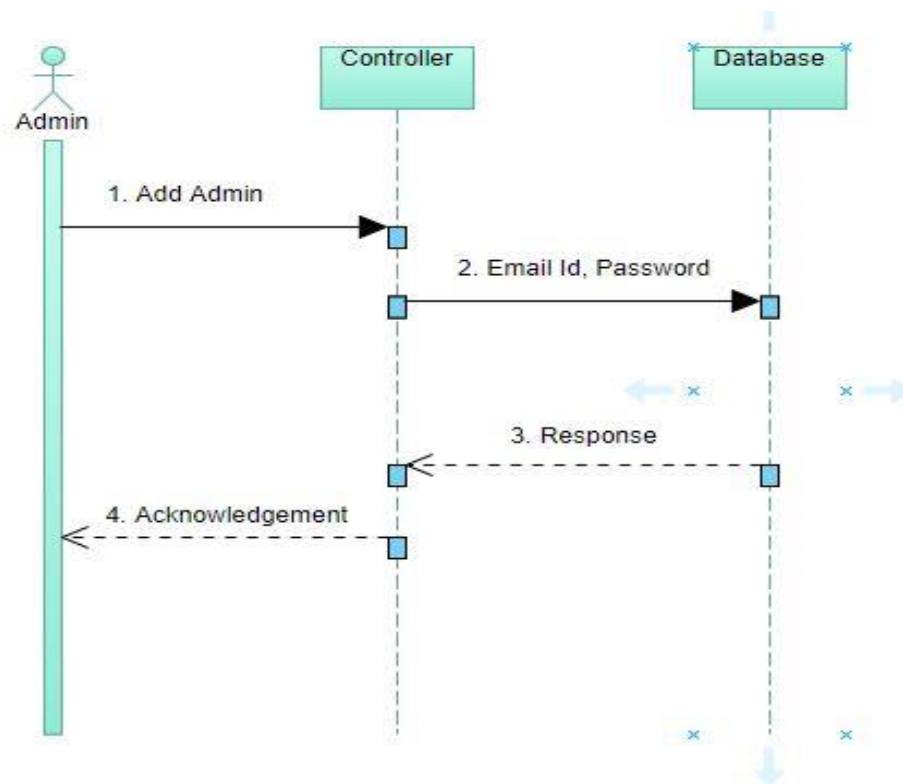
Share File –



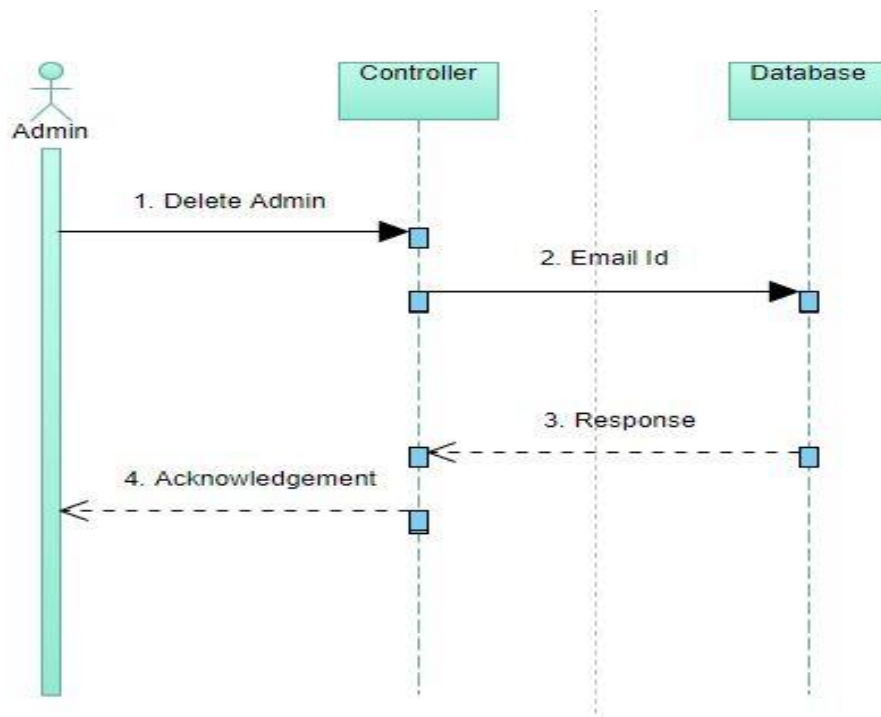
Download File –



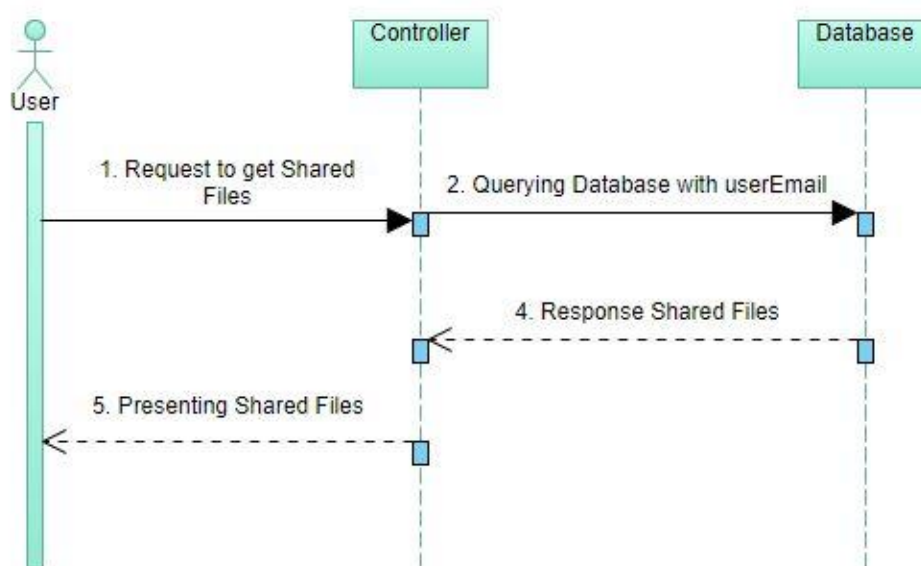
Add Admin –



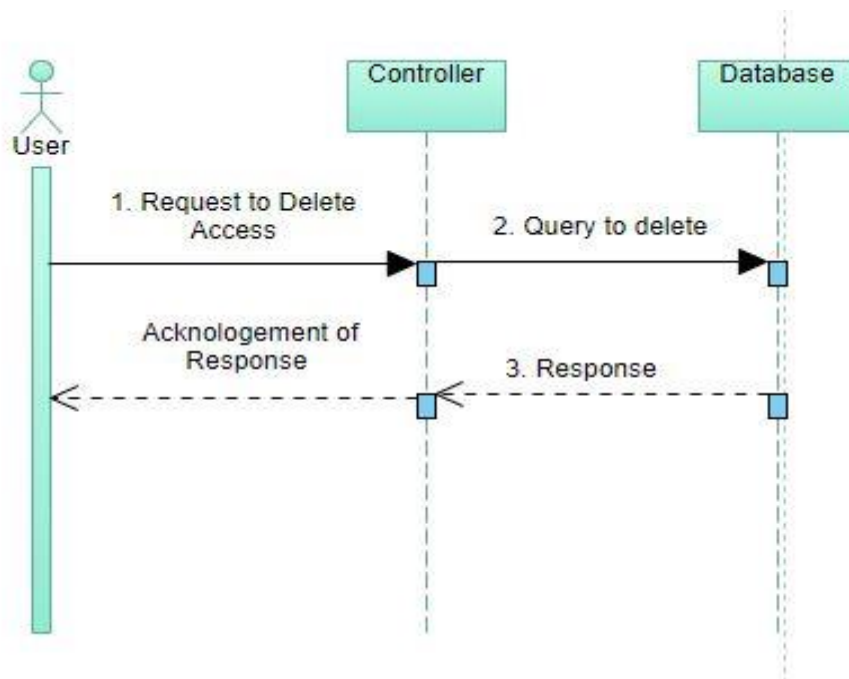
Delete Admin –



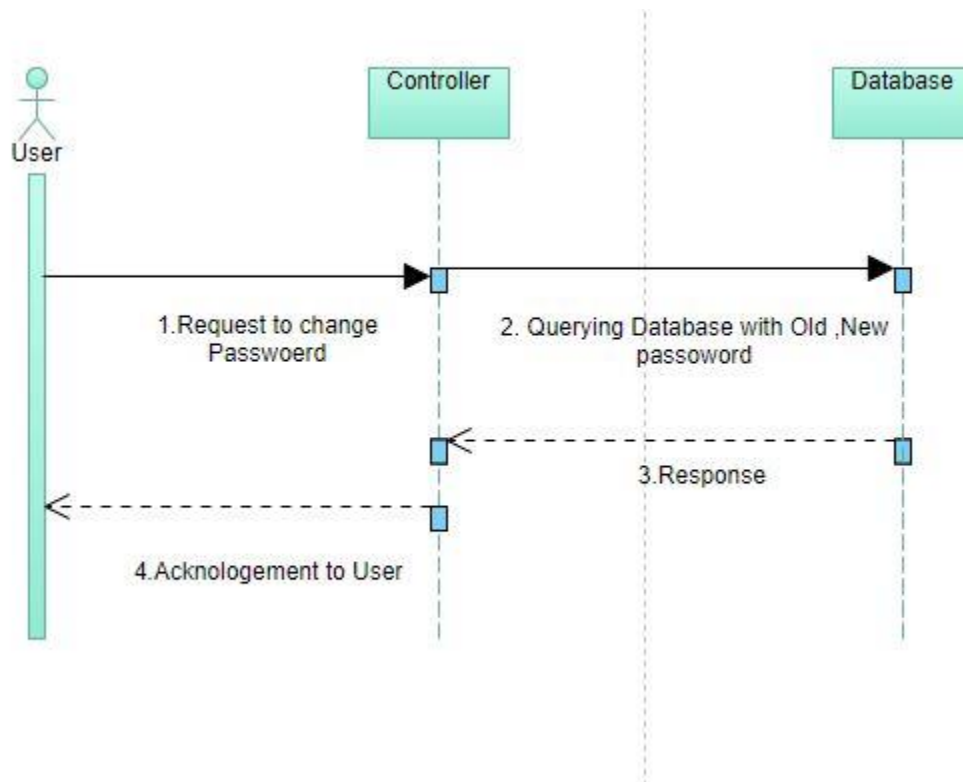
Get Shared Files –



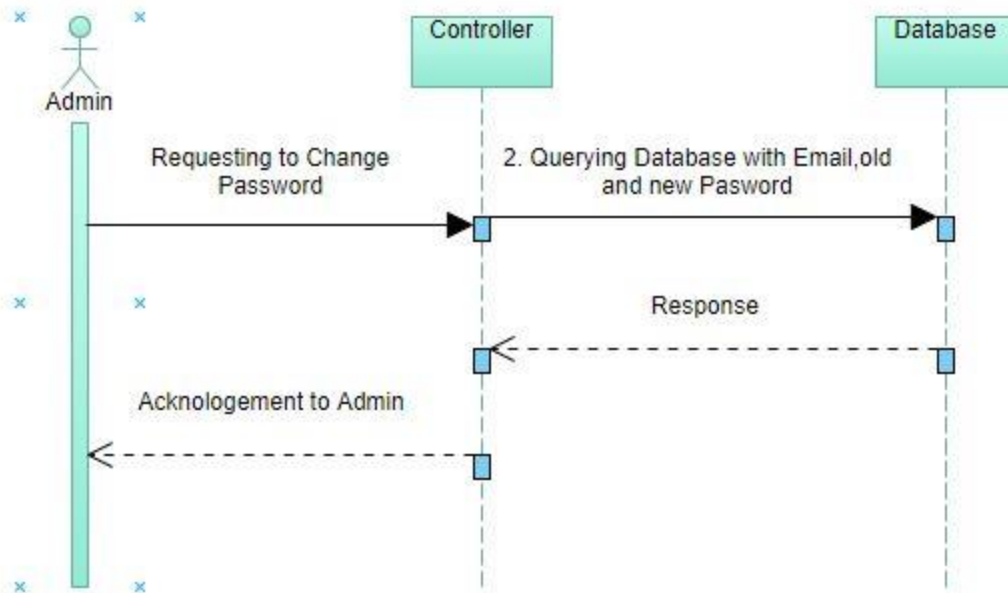
Delete Access –



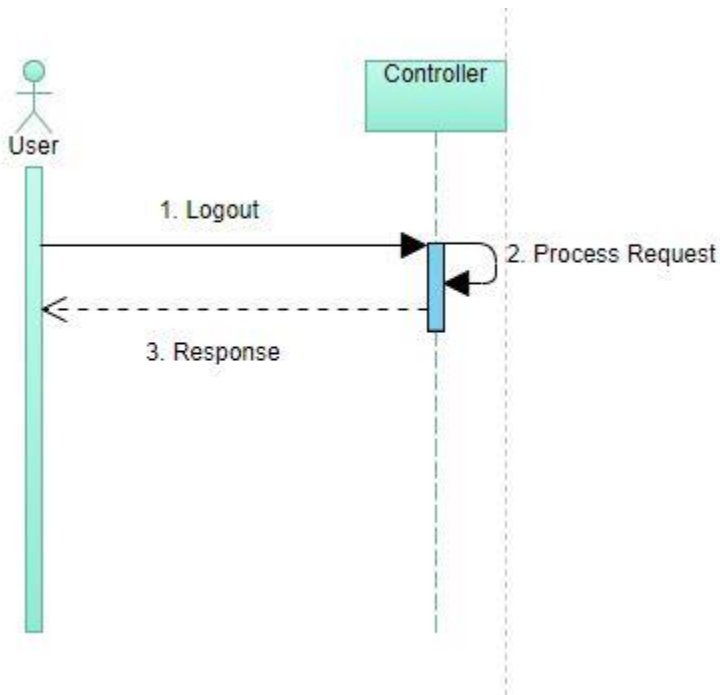
User Change Password –



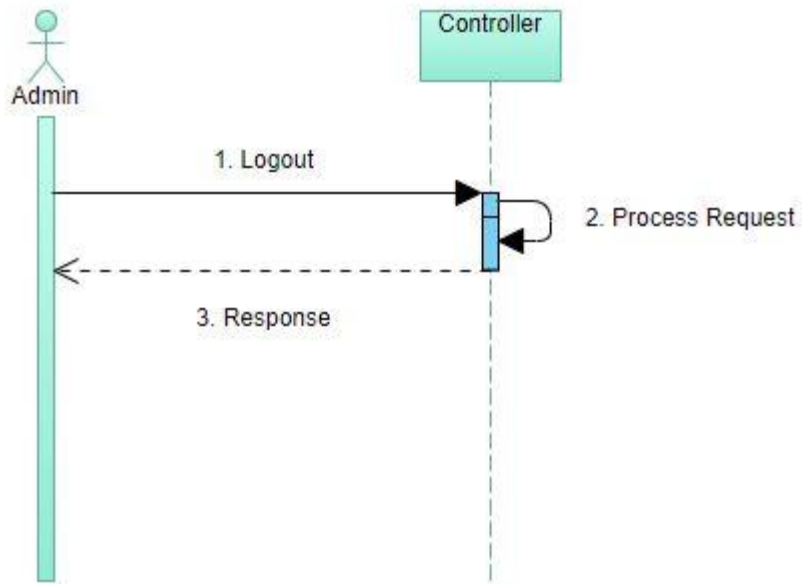
Admin Change Password –



User Logout –

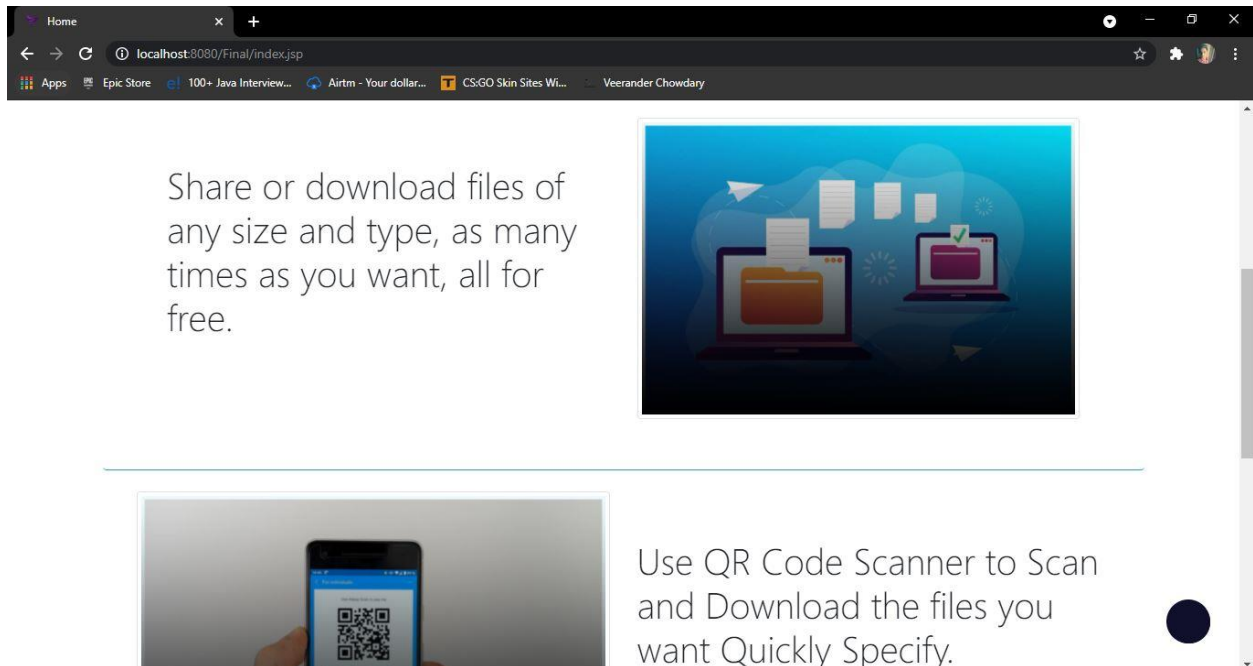
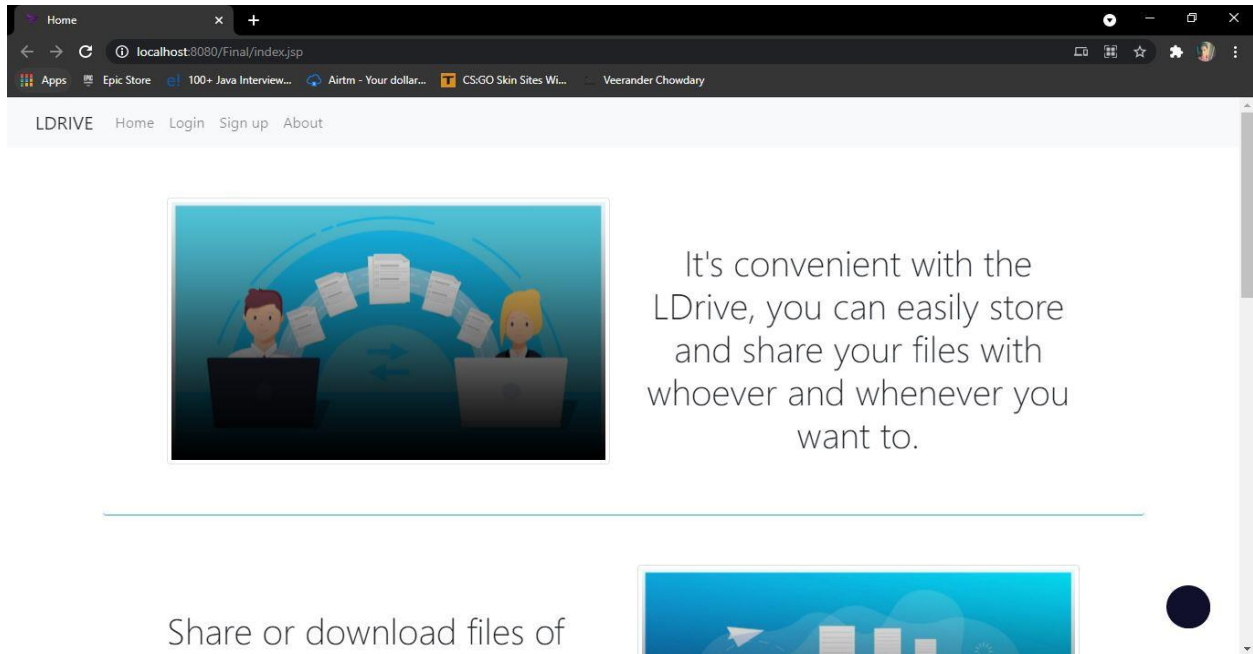


Admin Logout –

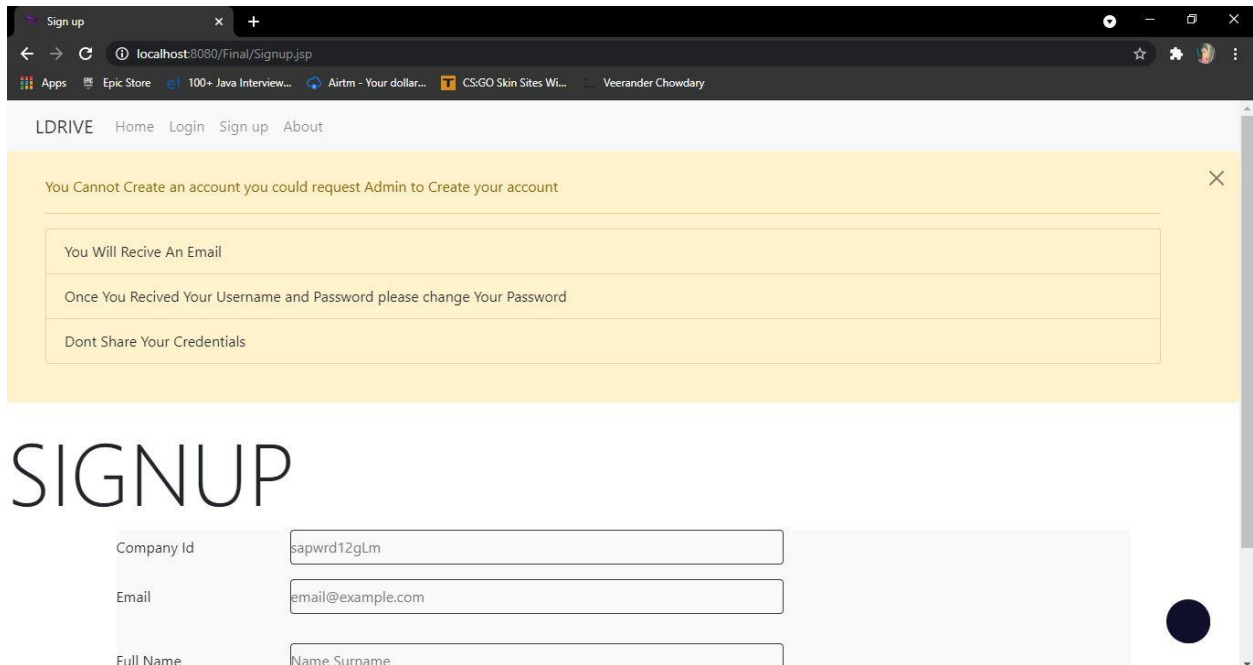


IMPLEMENTATION

Home page(index page)

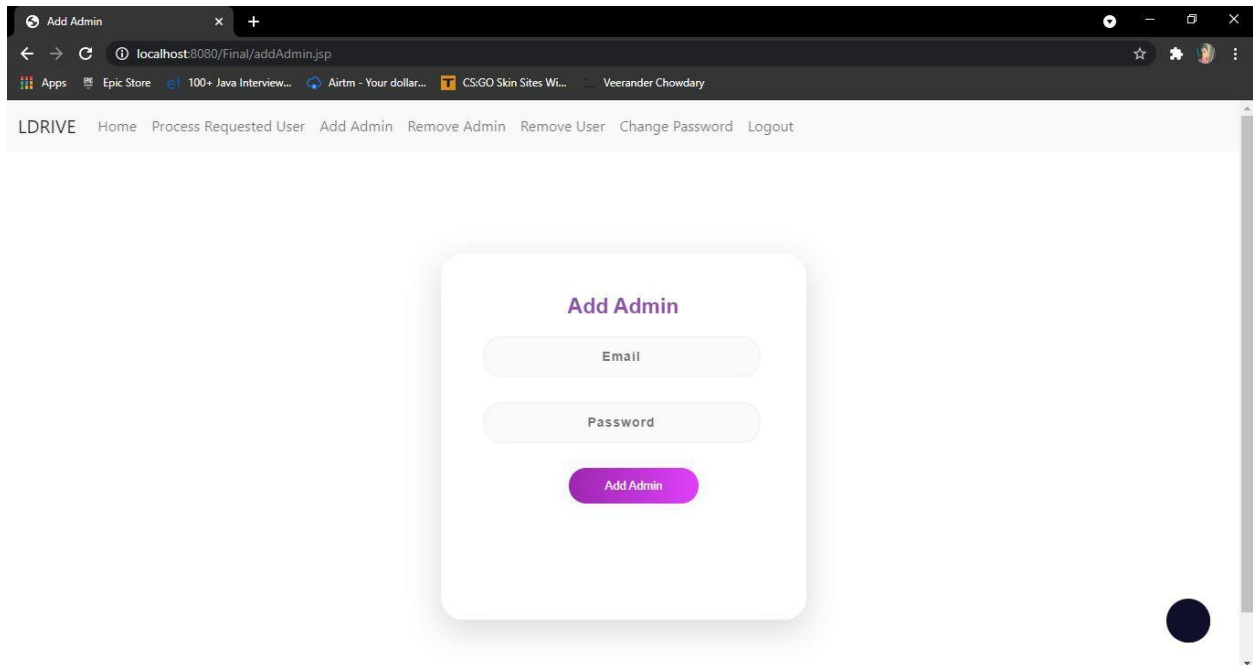


User signup page



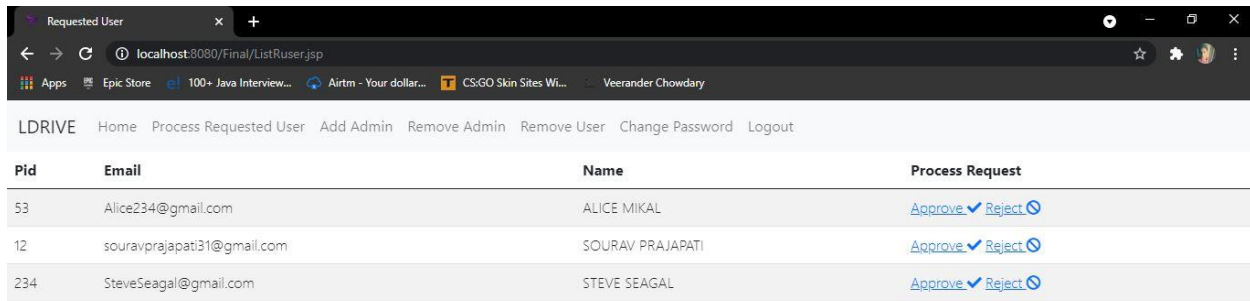
The screenshot shows a web browser window with the address bar displaying `localhost:8080/Final/Signup.jsp`. The browser's tab is titled "Sign up". The page has a navigation bar with links: "LDRIVE", "Home", "Login", "Sign up", and "About". A yellow notification box at the top contains the text: "You Cannot Create an account you could request Admin to Create your account". Below this, a white box with a yellow border contains three lines of text: "You Will Recive An Email", "Once You Recived Your Username and Password please change Your Password", and "Dont Share Your Credentials". The main heading "SIGNUP" is displayed in large, bold, black letters. Below the heading, there are three input fields: "Company Id" with the value "sapwr12gLm", "Email" with the value "email@example.com", and "Full Name" with the value "Name Surname". A dark blue circular profile picture placeholder is visible on the right side of the form.

Admin login page



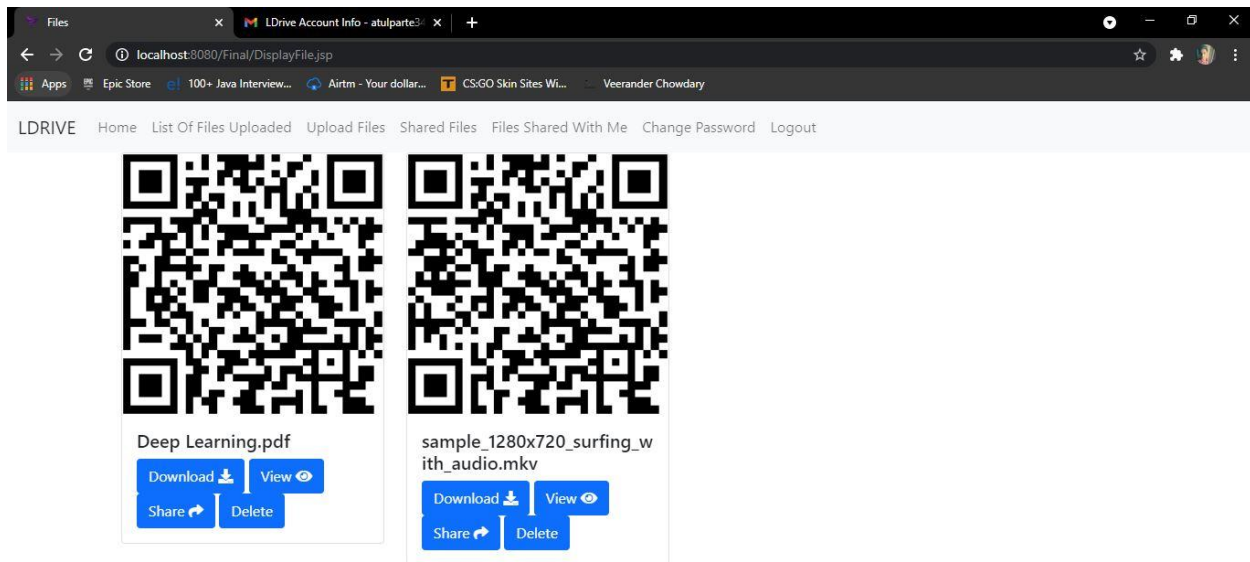
The screenshot shows a web browser window with the address bar displaying `localhost:8080/Final/addAdmin.jsp`. The browser's tab is titled "Add Admin". The page has a navigation bar with links: "LDRIVE", "Home", "Process Requested User", "Add Admin", "Remove Admin", "Remove User", "Change Password", and "Logout". The main content area features a white card with a purple shadow. The card has a heading "Add Admin" in purple. Below the heading, there are two input fields: "Email" and "Password". At the bottom of the card, there is a purple button labeled "Add Admin". A dark blue circular profile picture placeholder is visible on the right side of the page.

Process requested user page



Pid	Email	Name	Process Request
53	Alice234@gmail.com	ALICE MIKAL	Approve ✓ Reject ⚙
12	souravprajapati31@gmail.com	SOURAV PRAJAPATI	Approve ✓ Reject ⚙
234	SteveSeagal@gmail.com	STEVE SEAGAL	Approve ✓ Reject ⚙


List of files uploaded page



Files

localhost:8080/Final/DisplayFile.jsp


LDRIVE Home List Of Files Uploaded Upload Files Shared Files Files Shared With Me Change Password Logout



Deep Learning.pdf

Download View

Share Delete

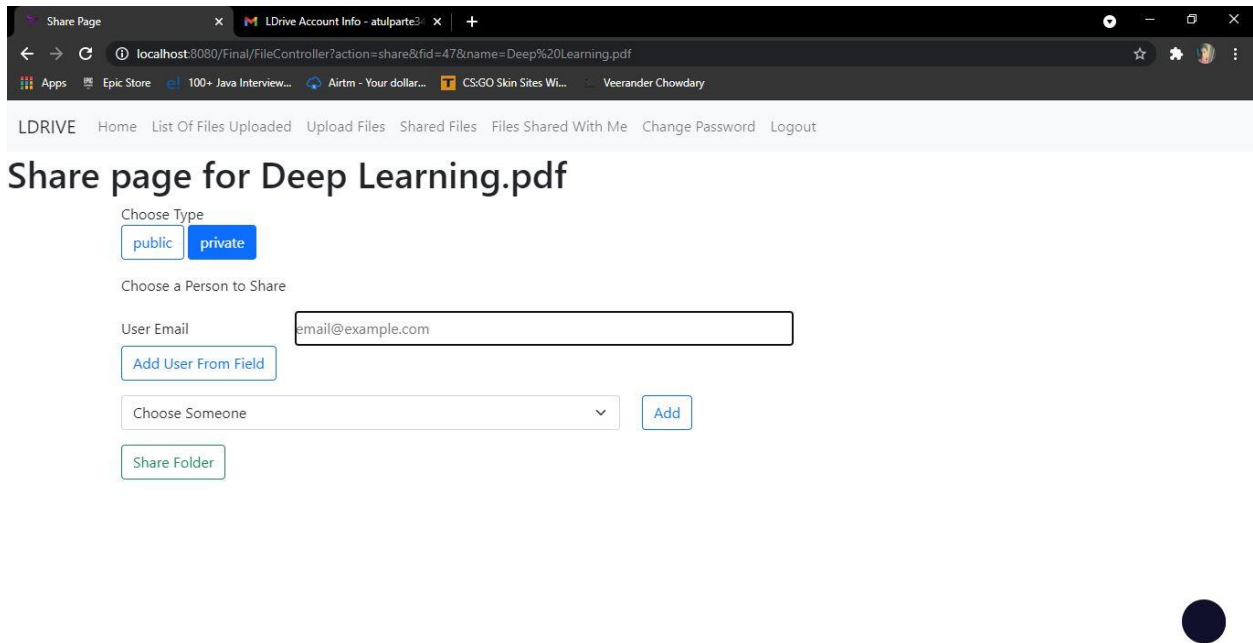


sample_1280x720_surfing_w
ith_audio.mkv

Download View

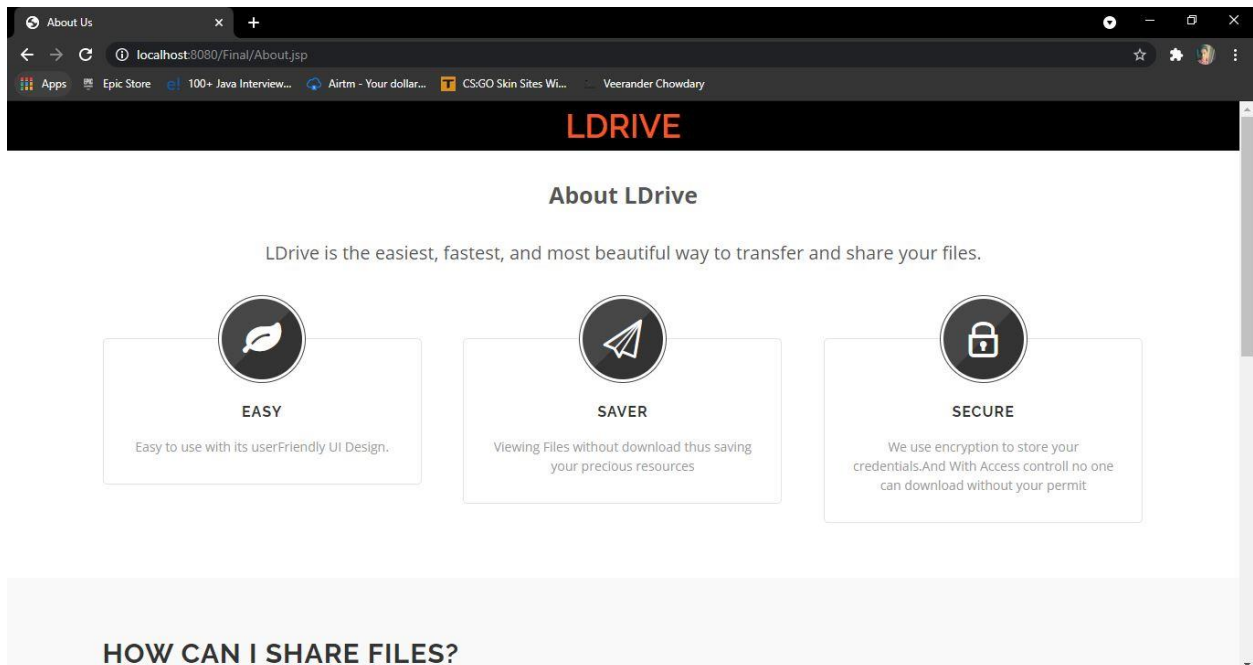
Share Delete

Share files page



The screenshot shows a web browser window with the address bar displaying `localhost:8080/Final/FileController?action=share&fid=478&name=Deep%20Learning.pdf`. The page title is "Share Page". Below the navigation bar, the main heading is "Share page for Deep Learning.pdf". The form includes a "Choose Type" section with "public" and "private" buttons, where "private" is selected. Below this is a "Choose a Person to Share" section with a "User Email" input field containing "email@example.com", an "Add User From Field" button, a "Choose Someone" dropdown menu, an "Add" button, and a "Share Folder" button. A dark blue circular profile picture is visible on the right side of the page.

About page



The screenshot shows a web browser window with the address bar displaying `localhost:8080/Final/About.jsp`. The page title is "About Us". The main heading is "About LDrive". Below the heading, a paragraph states: "LDrive is the easiest, fastest, and most beautiful way to transfer and share your files." There are three feature boxes, each with an icon and a title: "EASY" (leaf icon) with the text "Easy to use with its userFriendly UI Design.", "SAVER" (paper plane icon) with the text "Viewing Files without download thus saving your precious resources", and "SECURE" (lock icon) with the text "We use encryption to store your credentials.And With Access controll no one can download without your permit". At the bottom, there is a section titled "HOW CAN I SHARE FILES?".

TESTING

Unit Testing

Unit testing is a software testing method by which individual units of source code—sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures—are tested to determine whether they are fit for use

Unit testing involves the testing of each unit or an individual component of the software application. We have performed unit testing on every Dao (data access object) implemented class.

Usability testing:

Usability Testing has now become a vital part of any web based project. It can be carried out by testers like you or a small focus group similar to the target audience of the website.

Compatibility tests ensures that your website displays correctly across different devices. This would include Browser Compatibility Test: Same website in different browsers will display differently. You need to test if your website is being displayed correctly across browsers You may also check for Mobile, Browser Compatibility.

Compatibility testing.

Compatibility tests ensures that your website displays correctly across different devices. This would include Browser Compatibility Test: Same website in different browsers will display differently. You need to test if your website is being displayed correctly across browsers and authentication is working fine. You may also check for Mobile Browser Compatibility.

LIMITATION AND ENHANCEMENTS

Limitations –

- It allow you to view specific formats of file eg : mkv, png, pdf, txt.
- Data send for download and upload can be intercepted by hackers.
- When you want to share files with multiple people you need to put everyone's email id one by one.
- Anyone who has physical access to the server can see everyone's uploaded documents.

Enhancements –

- Including more file formats.
- Creating groups.
- For mailing it doesn't uses any Google API rather it uses javax.mail libray.
- Encryption for file system of server.

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- <https://stackoverflow.com/>