A
Project
Report On

File Management System

M.SC(CA & IT) (SIP PROJECT – 2023)
SUBMITTED BY

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INDEX

CHAPTER - 1: INTRODUCTION

INTRODUCTION

A File Management System (FMS), also known as a File System, is a crucial component of modern computer operating systems and software applications. It provides a structured and efficient way to organize, store, retrieve, and manipulate files and data on a computer's storage.

File Management System helps users organize their digital files and data efficiently. It typically includes features for creating folders or directories to group related files together, providing a hierarchical structure for easy navigation.

File Management System often integrates with backup and recovery systems to ensure data preservation and restoration in case of data loss or system failures. User Can Access control mechanisms are implemented to determine who can read, write, modify, or delete specific files and directories.

There are two modules in our System :- User and Admin.User can store the data, create folder and manage the data using this system and admin can manage the user data.

1.1 ORGANIZATION PROFILE

1.2 SYSTEM DETAILS

- Our System is allowing user can store and manage the document.
- Admin will have more functionality compare to user.
- Our System also allows users to restore deleted files and find recently uploaded files easily.

1.2.1 EXISTING SYSTEM

There are so many existing systems available like Google drive and FMS etc. But we do not have the same system in our organization.

- There is no any existing system in our organization.

1.2.2 PROPOSED SYSTEM

- Create an intuitive and user-friendly file management system.
- Improve file organization and retrieval.
- Enhance security and access control.
- Enable efficient file sharing and collaboration.
- User-friendly interface for file management and navigation.
- Version control system.
- File upload, download, and deletion.

1.3 SCOPE OF SYSTEM

- User can create, rename and delete folders to organize files hierarchically.
- Users can upload, download, and delete files in various formats, such as documents, images and etc.
- The system includes a search feature allowing users to locate files by name.

- The system includes user account management, profile settings, and authentication mechanisms.

- The FMS does not provide own storage space.

1.4 OBJECTIVES

- Making it easy for users to categorize and find their digital data.
- One of its main objective is to provide users with easy access to their files from anywhere in the world.

CHAPTER- 2 : REQUIREMENT GATHERING

Every software project goes through a phase called requirement gathering. A successful project begins with a difficult set of discussion on what should be done. It's the major Responsibility of the Business Analyst to gather the requirement from the client.

2.1 STAKEHOLDERS OF THE SYSTEM

Stack holders:

- Users
- Admin

Admin

These are special member of the system who manages the system modules.

User

- Create a new file or documents.
- Create a directories or folders to organize files and document.
- Share or download file.
- User can search the document or file with specific name or keyword.

2.2 REQUIREMENT GATHERING TECHNIQUES

There are many techniques available for gathering the requirements. Each techniques having value in certain scenario. Most of time, it

becomes necessary for business analysts to use multiple technique to gather complete and correct requirements from clients and Stakeholders like.

- Advertisement
- Questionnaires
- Social media

- **For our system we used Questionnaires**

2.3 CONSOLIDATED LIST OF REQUIRENMENTS

The Questionnaires for the people Who are facing problem to manage the documents.

Q. Are you facing any problem to manage the document?

A. Yes

B. No

Q. Which type of problem you are facing?

_____

Q. How do you currently store and organize your documents?

_____

Q. How do you typically search or specific documents when you need them?

_____

Q. Any other problem while using this system?

_____

2.4 PROJECT DEFINITION

File Management System helps users organize their digital files and data efficiently. It typically includes features for creating folders or directories to group related files together, providing a hierarchical structure for easy navigation.

User can do with System

- Registration: User needs to register first with their basic registration details and need to create a valid login id and password.
- Login : Using valid login credentials, user need to login into the system in order to access the system
- Create directory or Folder: Once user logged into the system, he/she can easily create directory or folder and upload the document.
- Delete document: User can delete the document and store into backup files and restore the again whenever needs.
- Edit Profile: User can edit your profile with change password, username and etc.
- File Sharing: Sharing files with other user.

CHAPTER-3: SYSTEM MANAGEMENT AND PLANNING

3.1 FEASIBILITY STUDY

The Feasibility study is an important and crucial part of the system analysis. The main purpose to carry out the feasibility analysis is to understand how efficient and beneficial would the new system be to the organization with minimal changes and effort made. The feasibility study activity involves the analysis of the problem and collection of all relevant information relating to the product such as the different data items which would be input to the system, the processing required to be carried out on these data, the output data required to be produced by the system as well as various constraints on the behavior of the system. The main aim of feasibility study activity is to determine whether it would be financially and technically feasible to develop the product.

3.1.1 TECHNICAL FEASIBILITY

- The technical feasibility means that the project can be done with the current equipment, existing software technology and the current knowledge. Internet is required to use the system.
- It just requires window operating system and normal browser to use our system.

3.1.2 ECONOMIC FEASIBILITY

- Economic feasibility generally means that the system development cost should be sufficiently in creating a system to make a cost acceptable.

- As we are going to developing this website in React.js technology so all the required equipment freely Available in market. Our system is not much costly to develop.

3.1.3 OPERATIONAL FEASIBILITY

- Operational feasibility deals with the acceptance of the users and their willingness to use the system. The system should be such that it is acceptable.

- Here for maintaining all the books database and to maintain the system it must have one person and he/she Should have basic knowledge about How to use Computer?, But now a days in this technical era, any one can use computer, laptop, mobile easily That's why is system should be acceptable.

3.2 HARDWARE AND SOFTWARE REQUIREMENTS

CLIENT SIDE

SOFTWARE	
Front-end	React.js
Back-end	Node.js
Operating System	Any windows OS till 10
Design Tools	VS Code
Browser	Chrome, Mozilla, etc.

HARDWARE	
Processor	P4 core processor or Duo
RAM	8GB
Hard disk	500 GB

SERVER SIDE

SOFTWARE	
Front-end	React.js
Back-end	Node.js
Operating System	Any windows till 10
Database	MongoDB
Tools	VS Code
Browser	Chrome,Mozila,etc.

HARDWARE	
Processor	P4 core Processor or Duo
RAM	1 GB or Above
ROM	128 GB

3.3 SYSTEM PLANNING

3.3.1 GANTT CHART

A Gantt chart is a type of bar chart that illustrates a project schedule. This chart lists the tasks to be performed on the vertical axis. And time intervals on the horizontal axis. The width of the horizontal bars in the graph shows the duration of each activity. Gantt chart illustrates the start and finish dates of the terminal elements and summary elements of a project.

3.4 PROCESS MODEL

A Model which Contain a Series of phases that provide a common Understanding of the software building process.

- Here, in our System we are using Waterfall Process model.

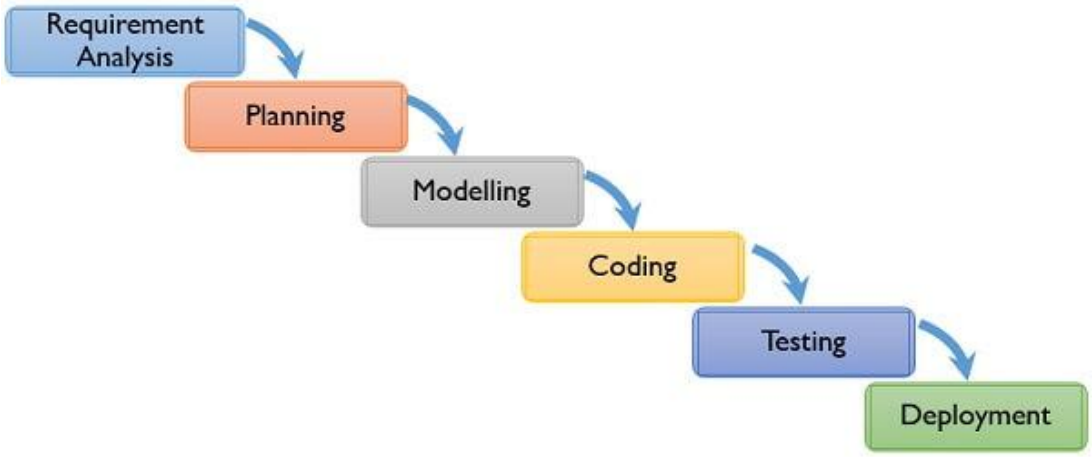
Waterfall Process Model

- The waterfall model is a classical model used in system development life cycle to create a system with linear and sequential approach.
- It is called waterfall because the model develops systematically from one phase to another in downward fashion.
- It is very simple to understand and use in. Every phase has to be completed before the next phase starts and there is no overlapping of the phases.
- Also called as classical life cycle model.

For Our System

- We would be following the waterfall model because the nature of the system as the requirements is unchanged.

1. Risk is zero or minimum.
2. Requirements are clear and well defined for our System.
3. Our Project is so simple and small.



Waterfall Process Model

Why it is Suitable for Our System ?

- Waterfall model is simple and easy to understand and use so it is suitable for our system.
- Phases are processed and completed one at time.
- In waterfall model process of arranging task is easy.
- All requirements are gathered at the start and cannot be changed.

Advantages

- Simple and easy to understand and use.
- Easy to manage.
- Clearly defined stages and well understood.
- Works well for smaller and low budget projects where requirements are very well understood.

Disadvantages

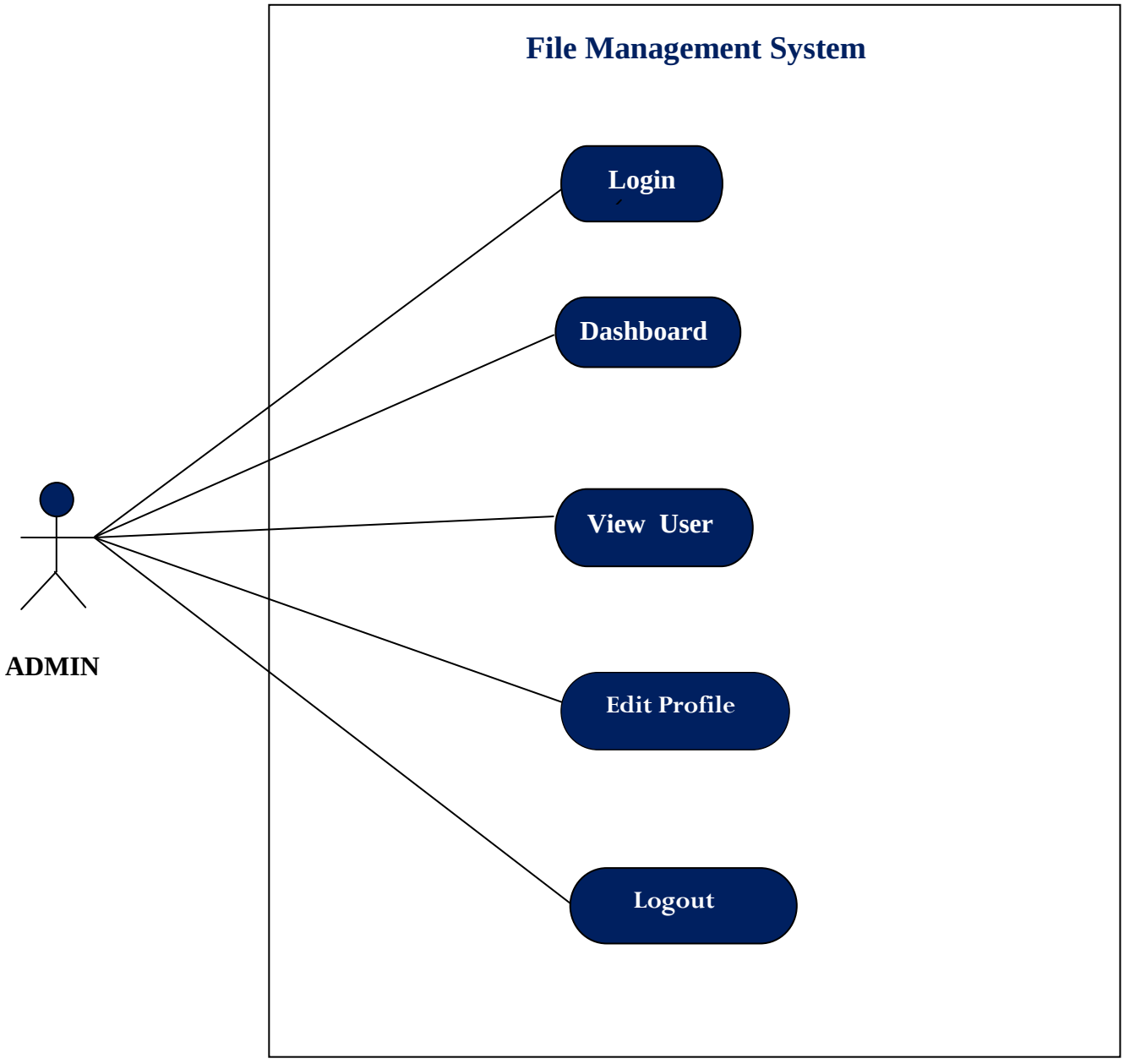
- Very difficult to go back to any stage after it finished.
- Costly and requires more time.
- Not good model for complex and object oriented projects.
- Requirements are not changing till completed all the phases.
- No feedback.
- High risk.

CHAPTER-4 : SYSTEM ANALYSIS AND PLANNING

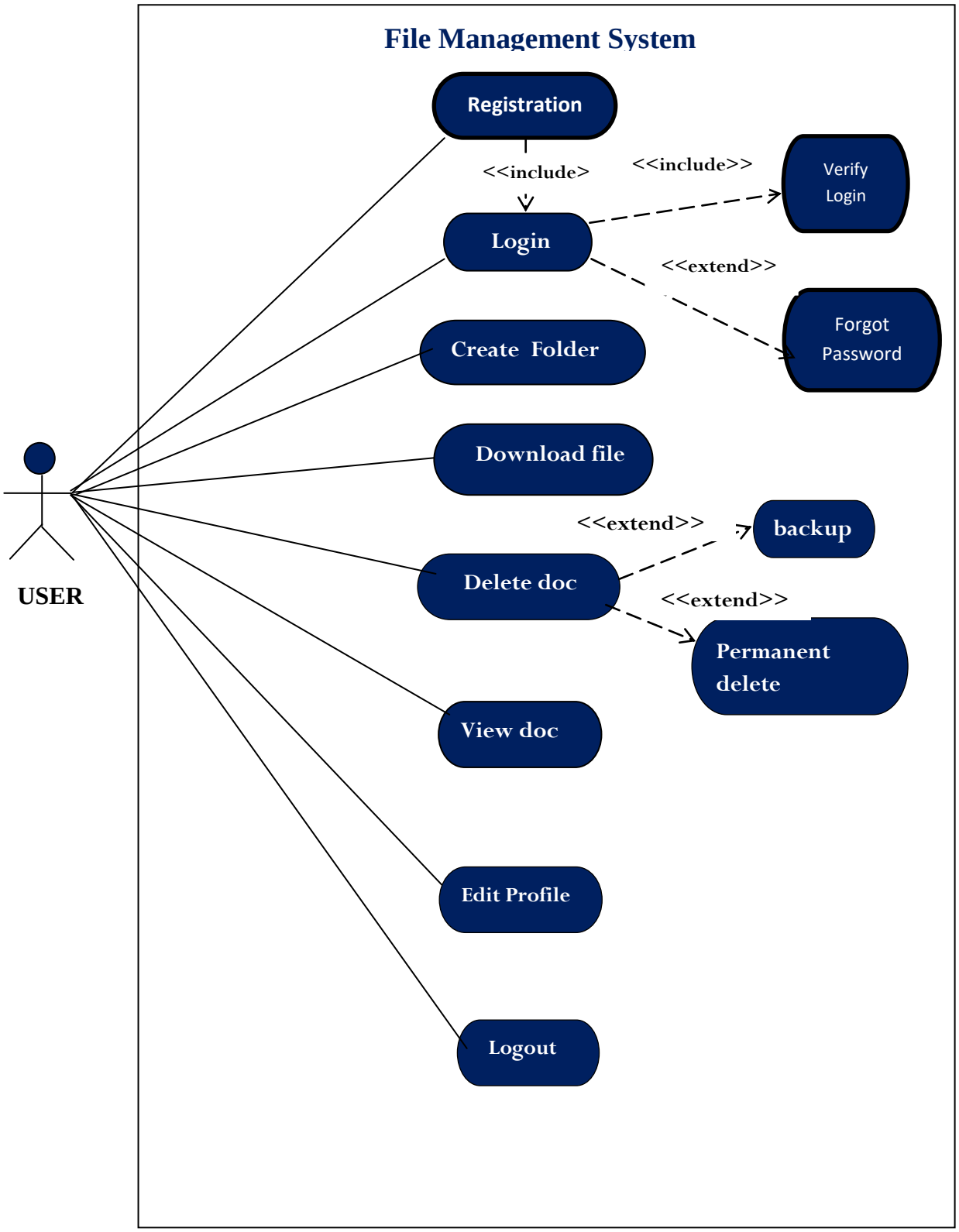
4.1 UML (UNIFIED MODELING LANGUAGE)

Use Case

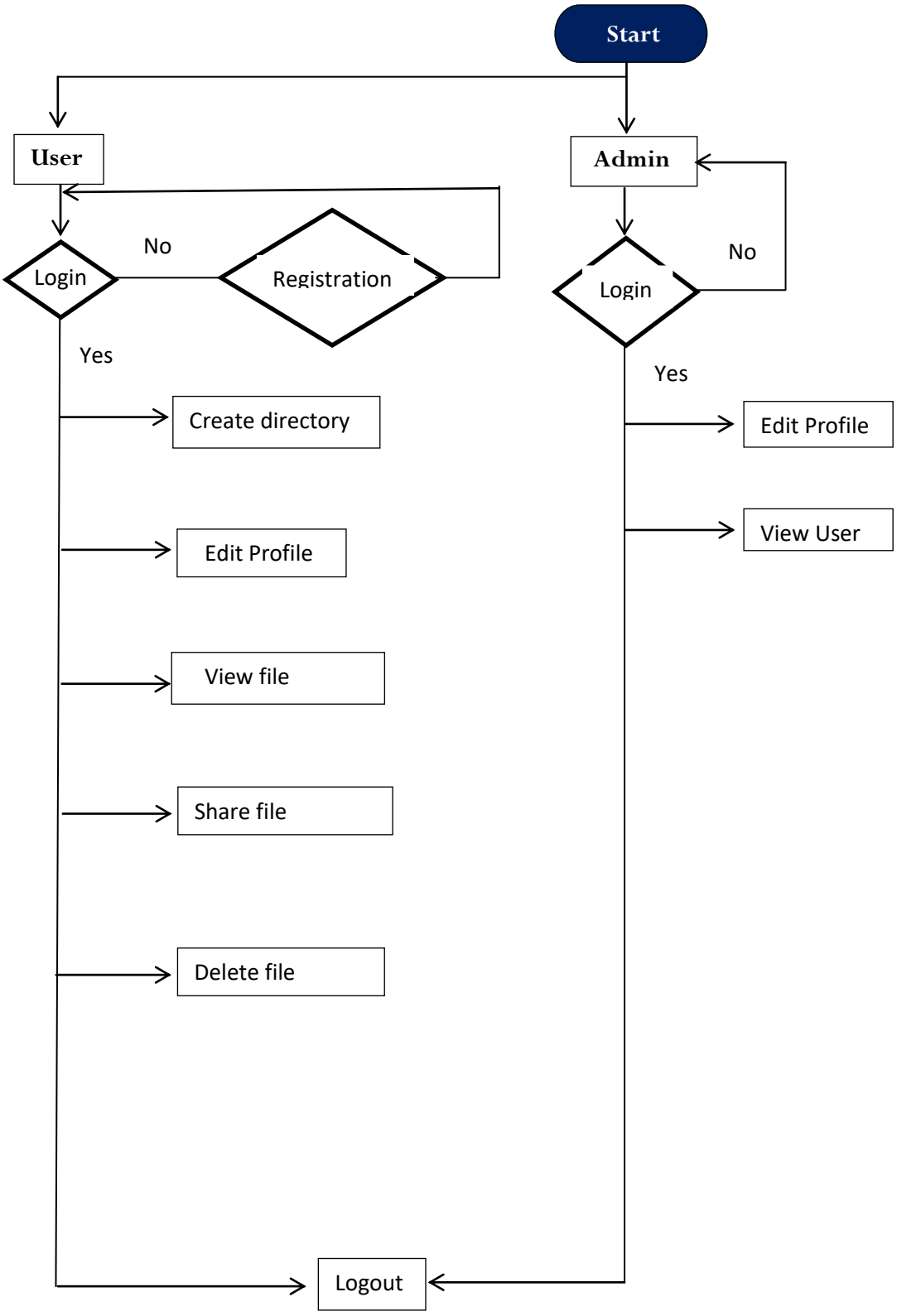
ADMIN



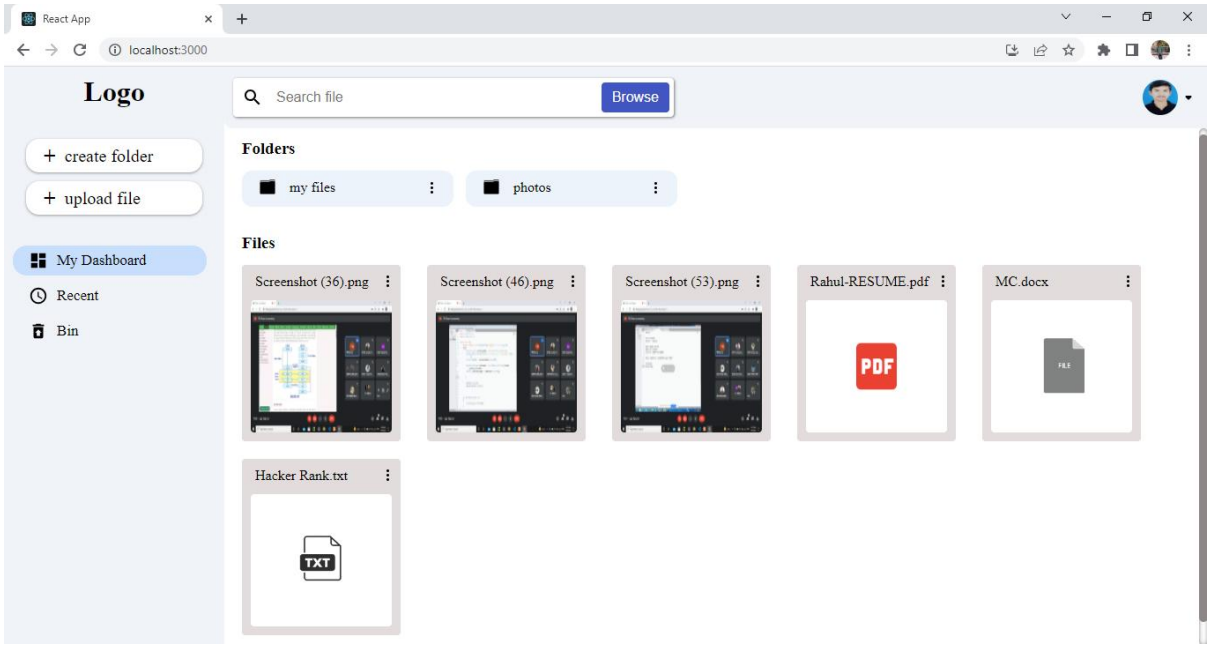
USER

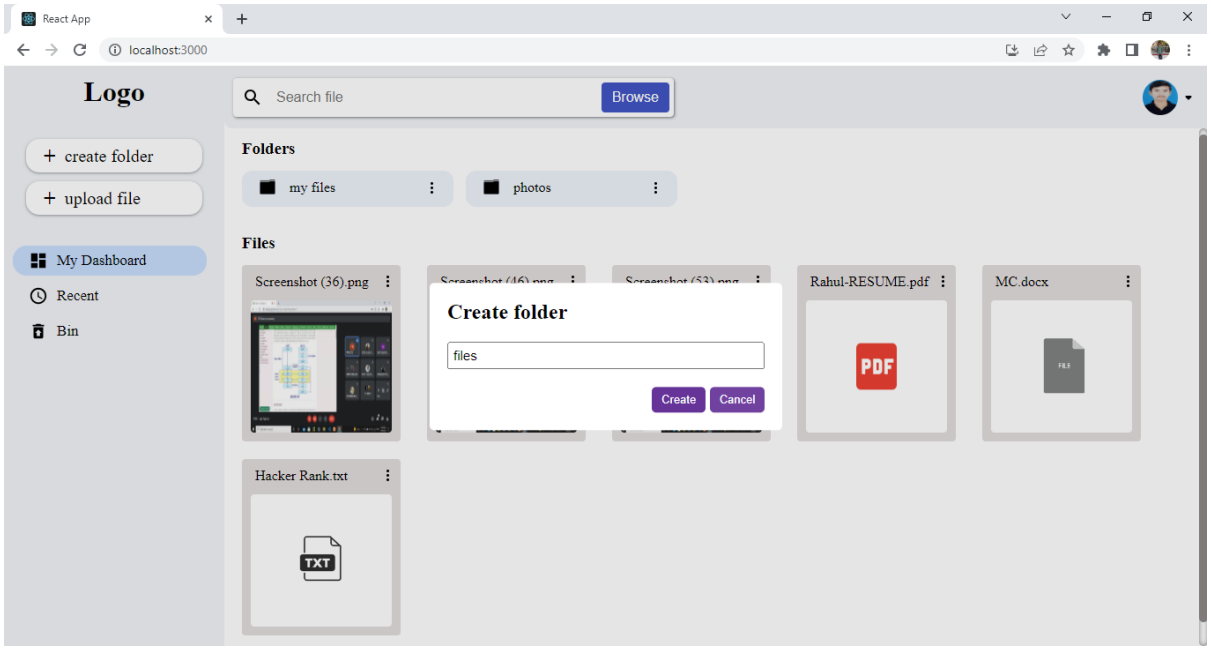

File Management System
Registration
<<include>
<<include>>
Verify Login
Login
<<extend>>
Forgot Password
Create Folder
Download file
<<extend>>
backup
Delete doc
<<extend>>
Permanent delete
View doc
Edit Profile
Logout
USER

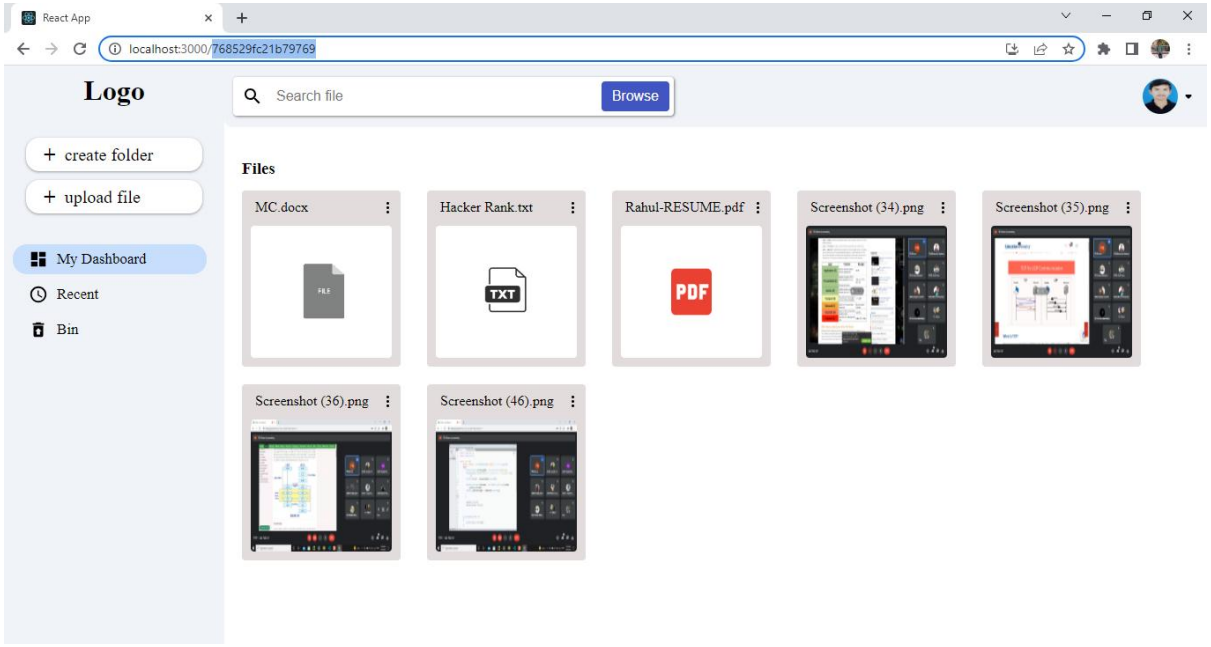
4.2 SYSTEM FLOW DIAGRAM

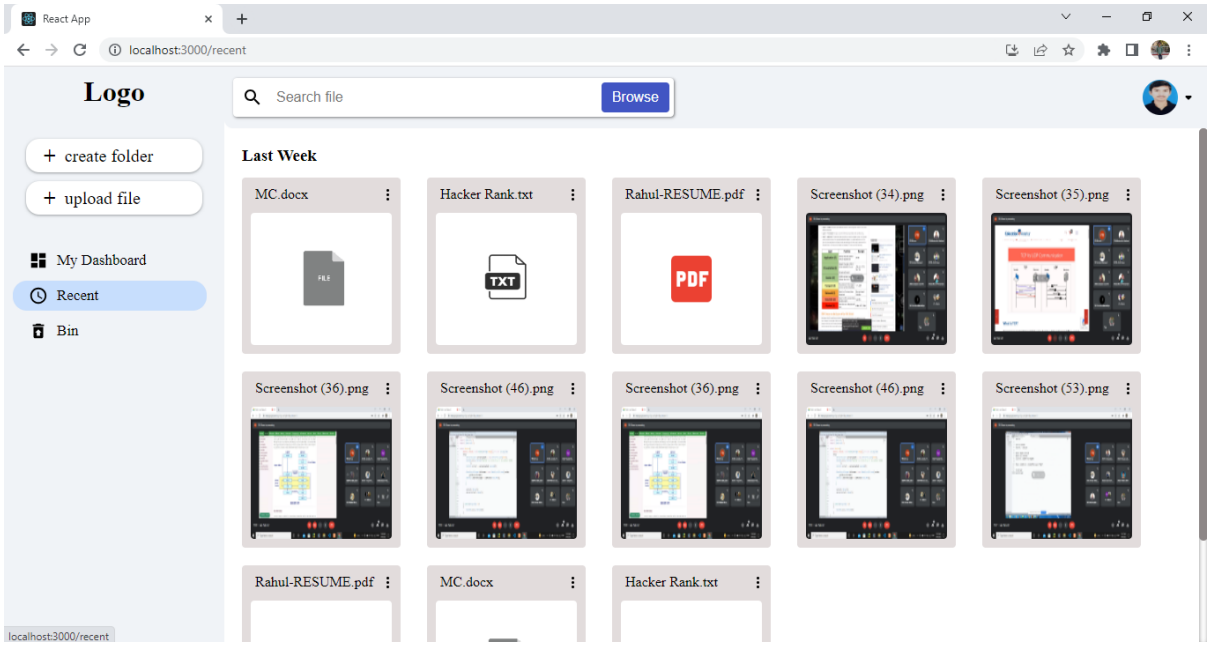


CHAPTER -5 : Input Output Design






React App
localhost:3000/768529fc21b79769
Logo
Search file
Browse
+ create folder
+ upload file
My Dashboard
Recent
Bin
Files
MC.docx
Hacker Rank.txt
Rahul-RESUME.pdf
Screenshot (34).png
Screenshot (35).png
Screenshot (36).png
Screenshot (46).png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Search file
Browse
+ create folder
+ upload file
My Dashboard
Recent
Bin
Last Week
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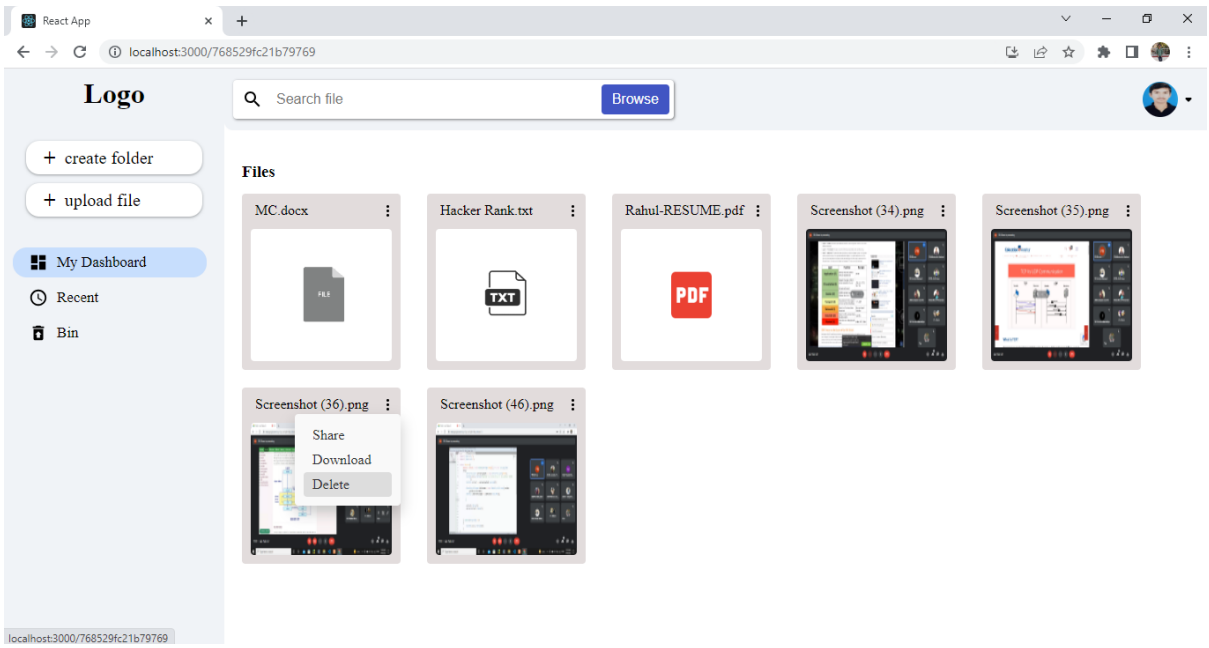
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Rahul-RESUME.pdf
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Share
Download
Delete
Screenshot (46).png
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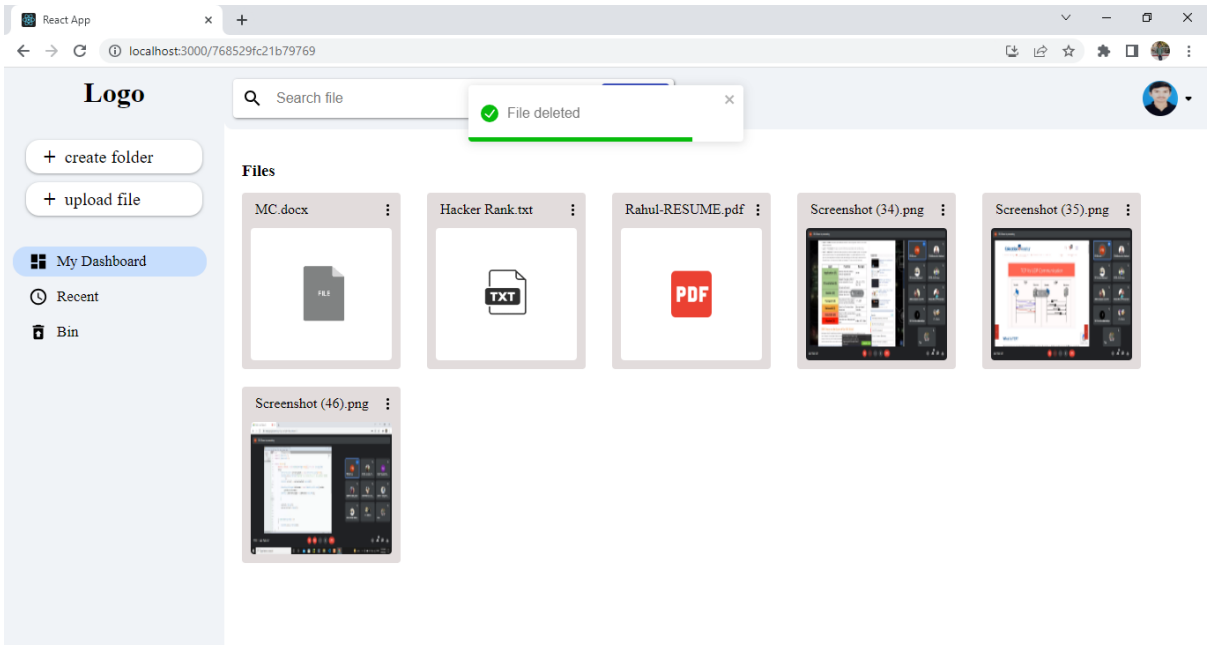
React App
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Logo
Search file
File deleted
+ create folder
+ upload file
My Dashboard
Recent
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Hacker Rank.txt
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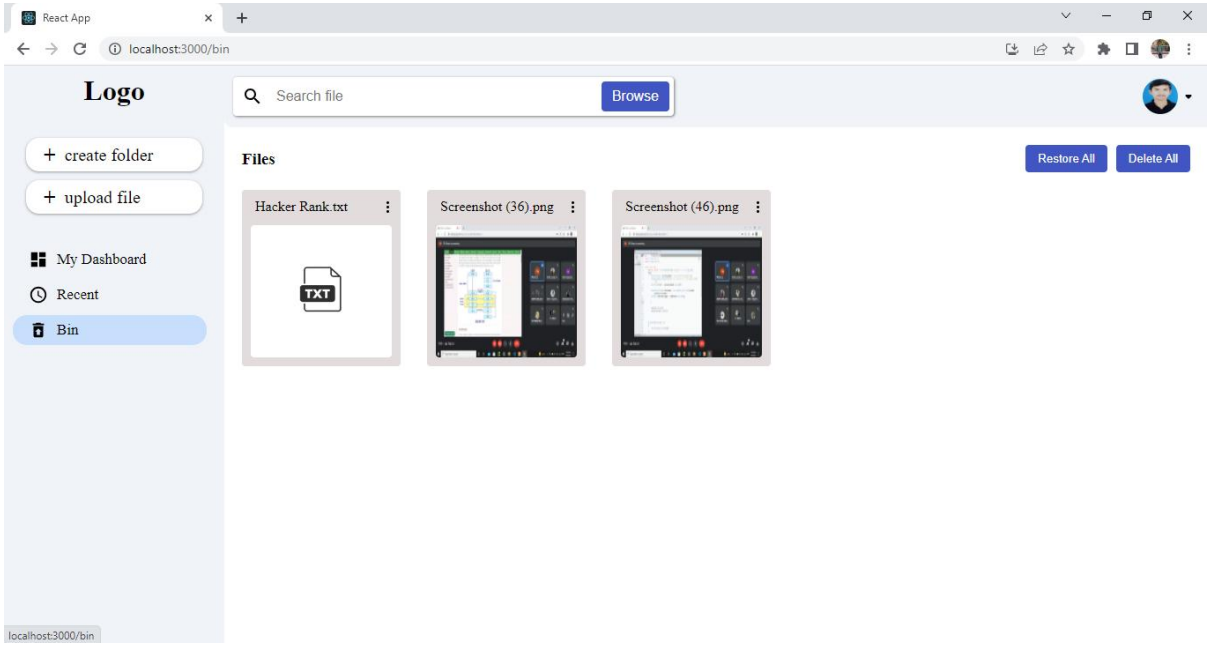
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Logo
Search file
Browse
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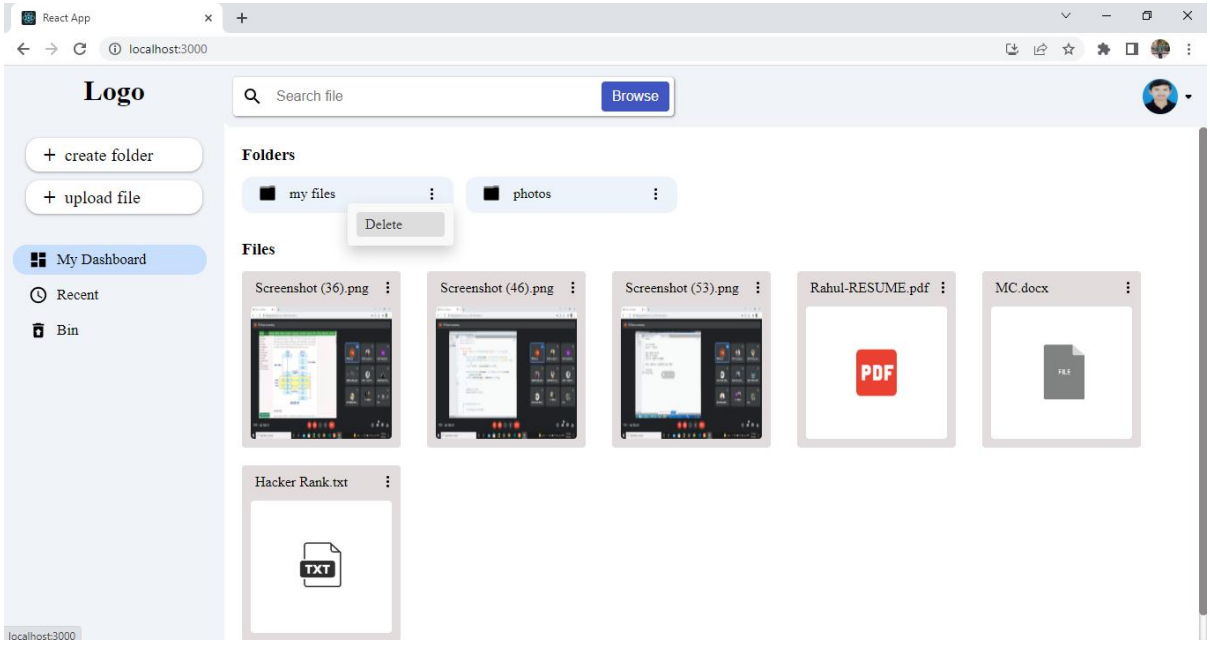
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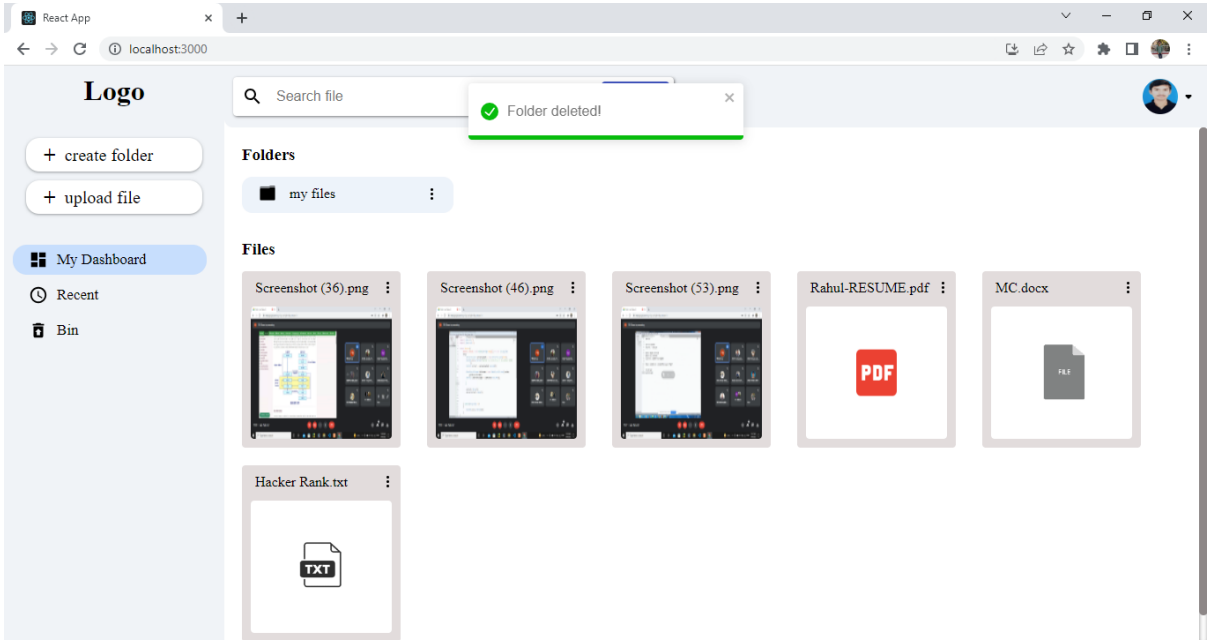
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Folder deleted!
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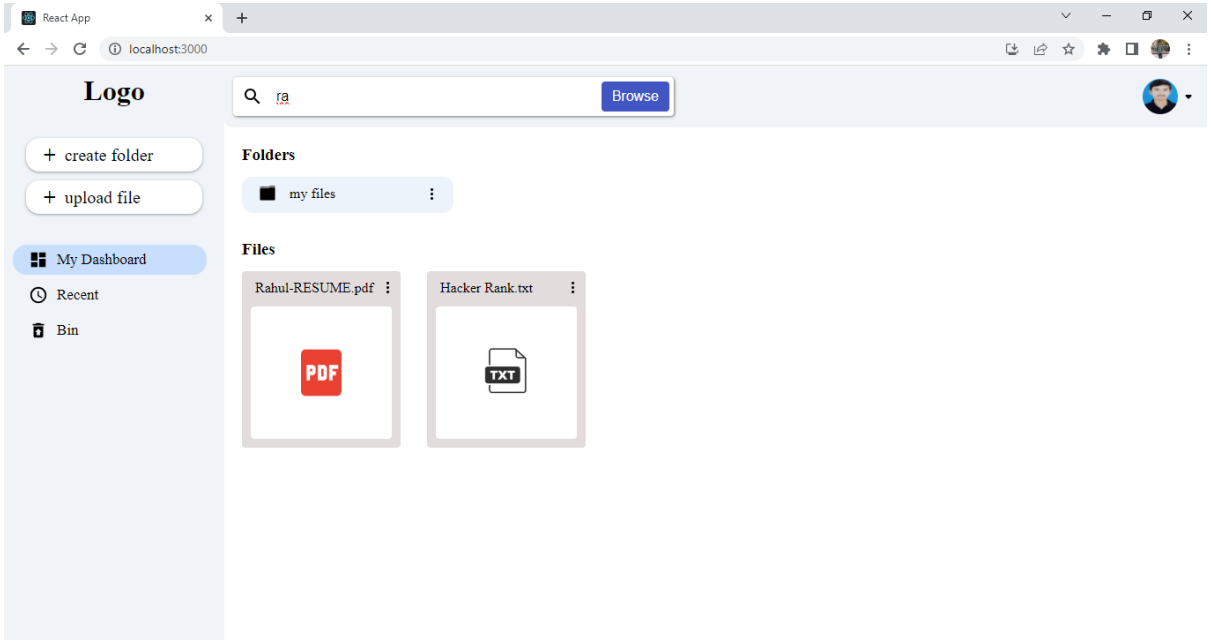
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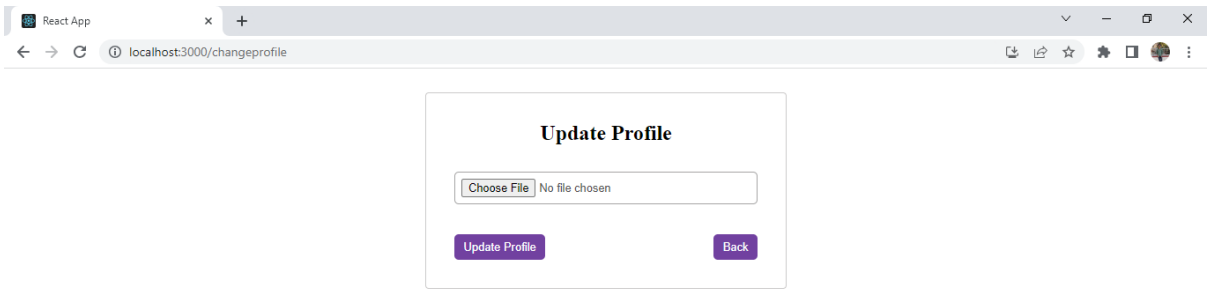
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Choose File
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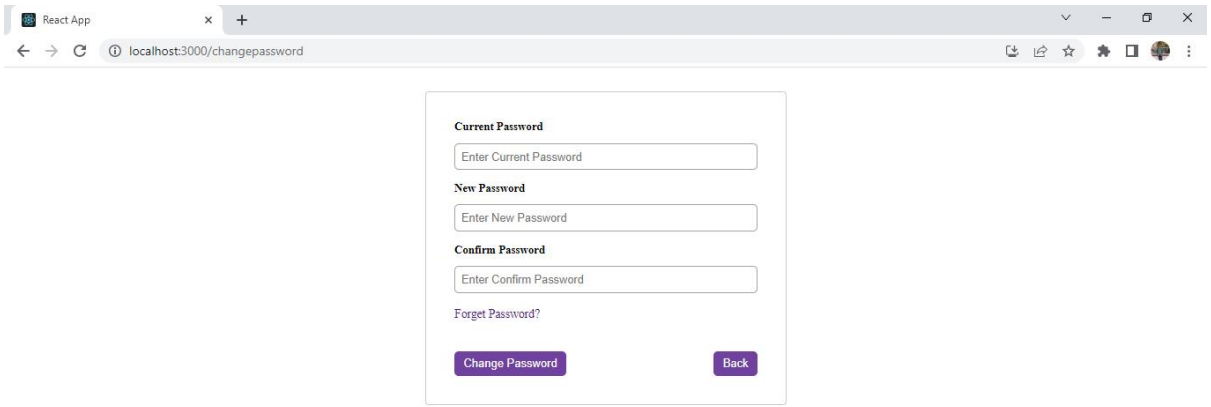
Update Profile
Back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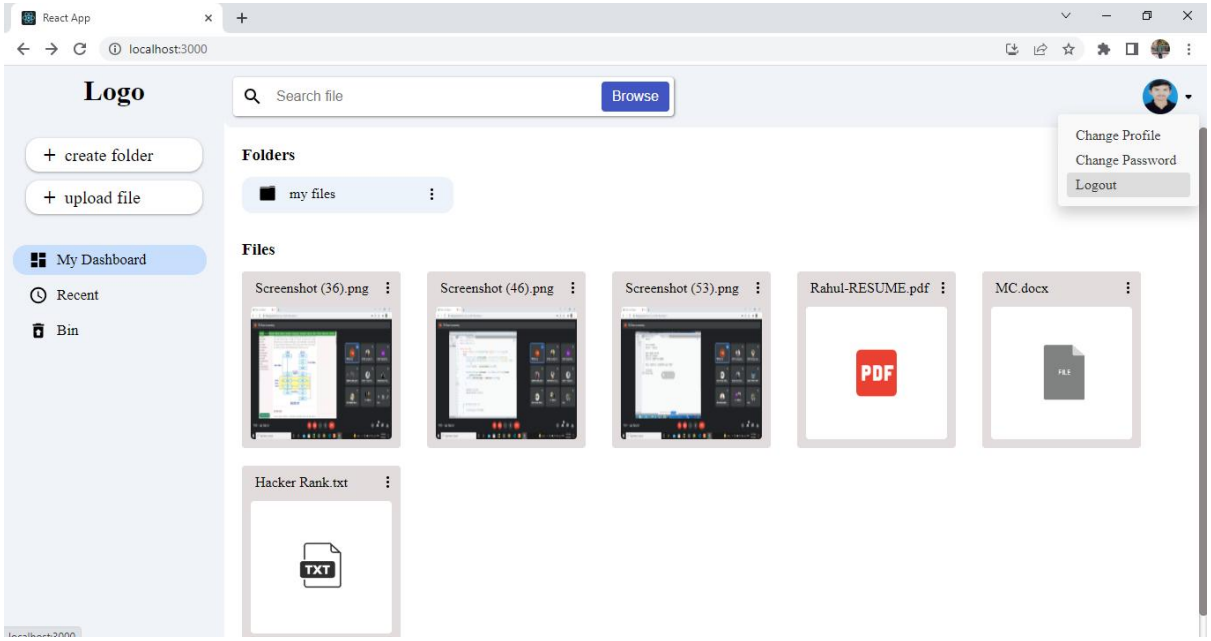
New Password
Enter New Password
Confirm Password
Enter Confirm Password
Forget Password?
Change Password
Back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Search file
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Logout
+ create folder
+ upload file
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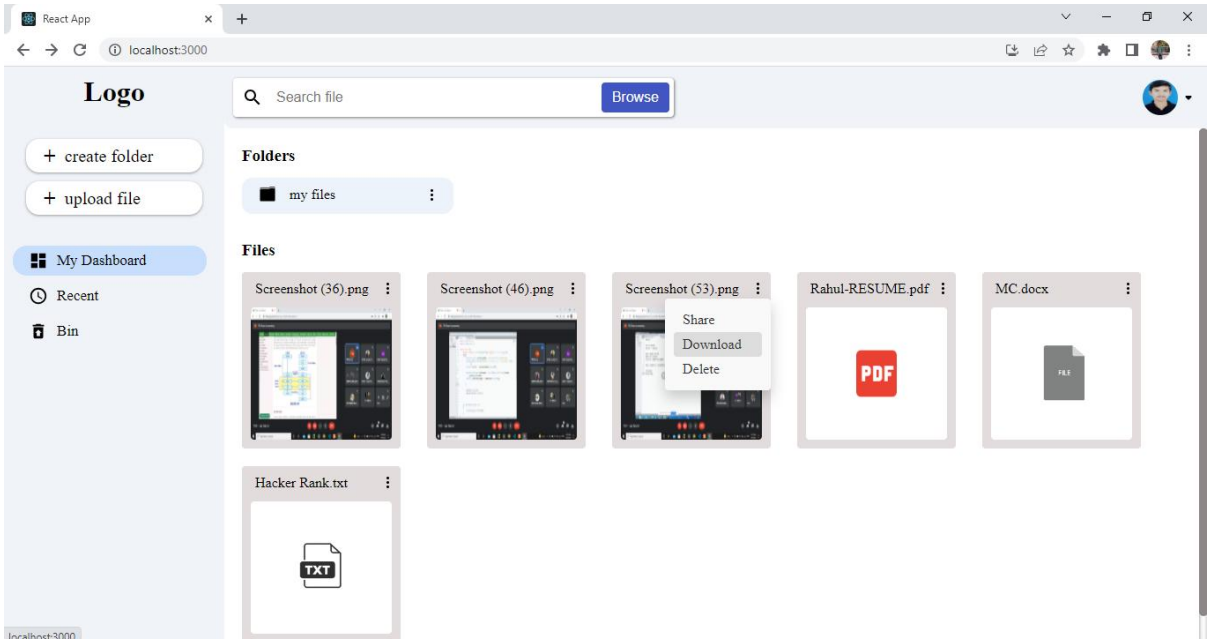
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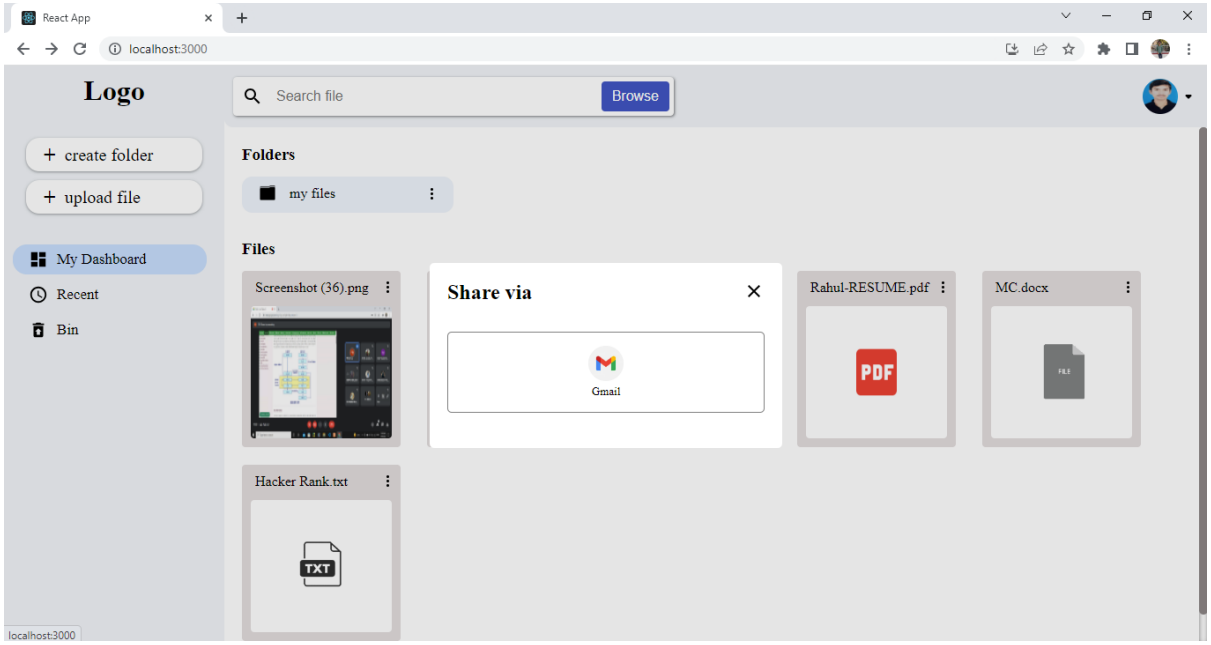
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Browse
+ create folder
+ upload file
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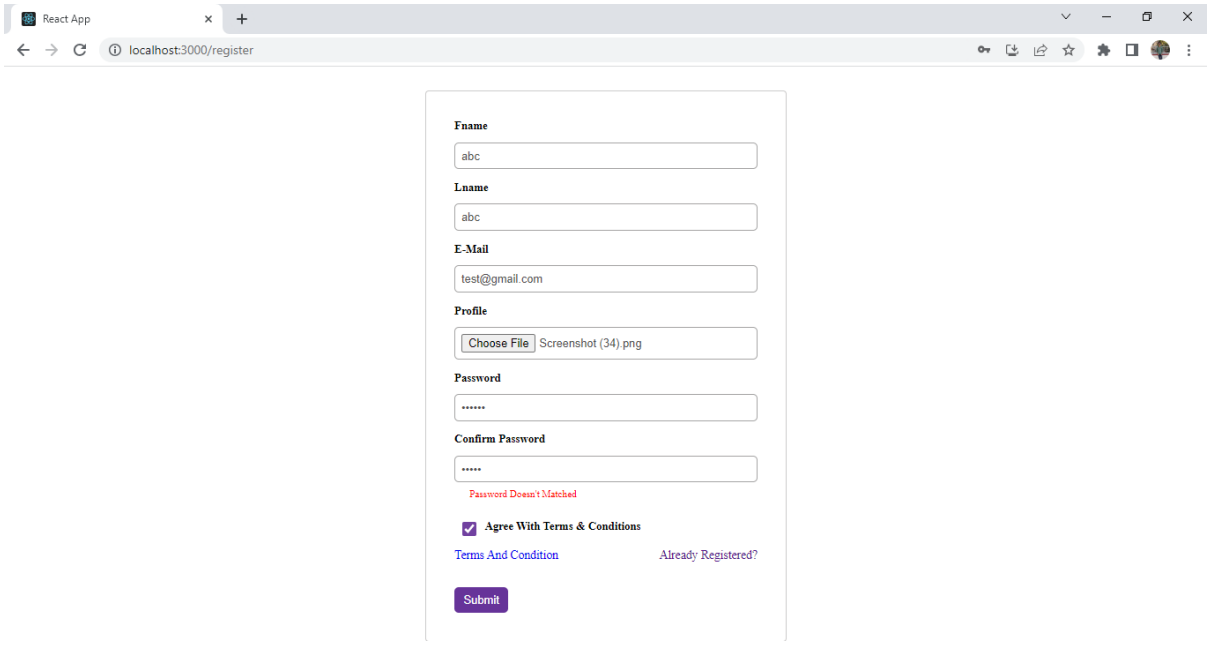
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localhost:3000/register
Fname
abc
Lname
abc
E-Mail
test@gmail.com
Profile
Choose File
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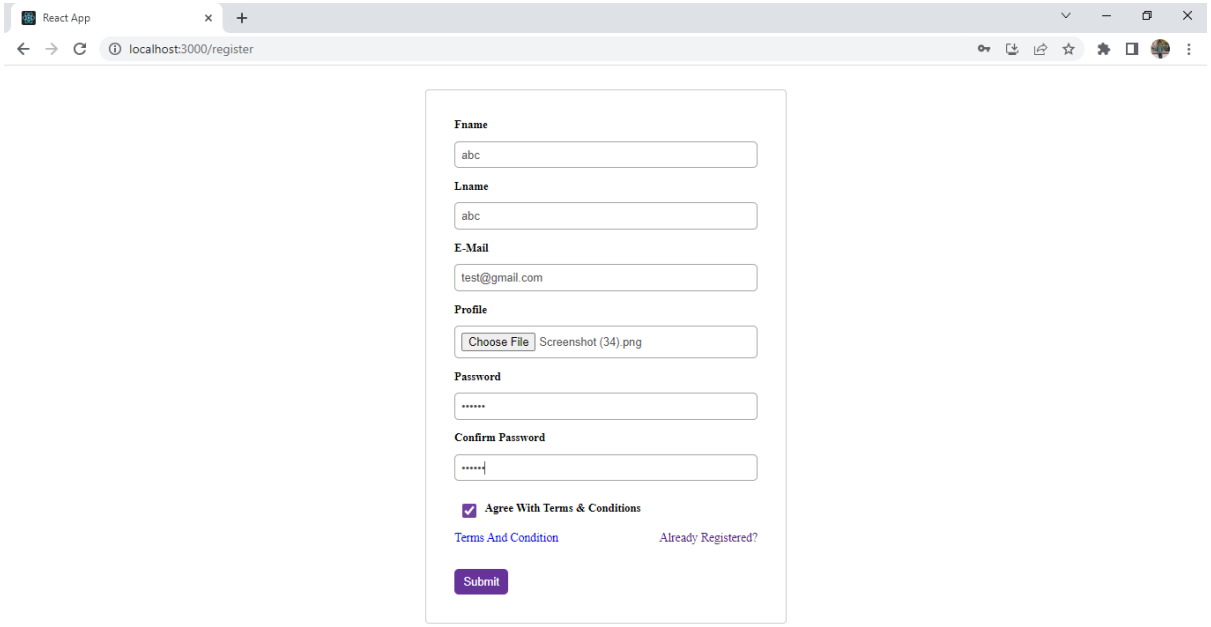
Password
Confirm Password
Password Doesn't Matched
Agree With Terms & Conditions
Terms And Condition
Already Registered?
Submit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Fname
abc
Lname
abc
E-Mail
test@gmail.com
Profile
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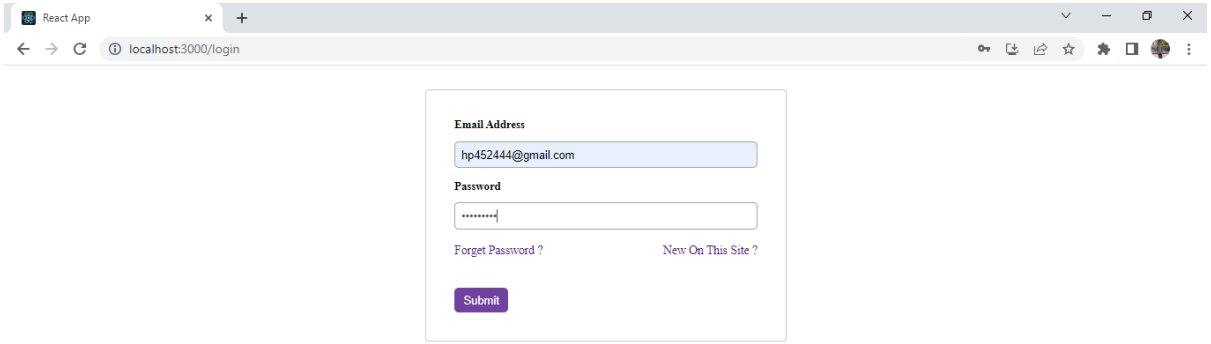
Password
Confirm Password
Agree With Terms & Conditions
Terms And Condition
Already Registered?
Submit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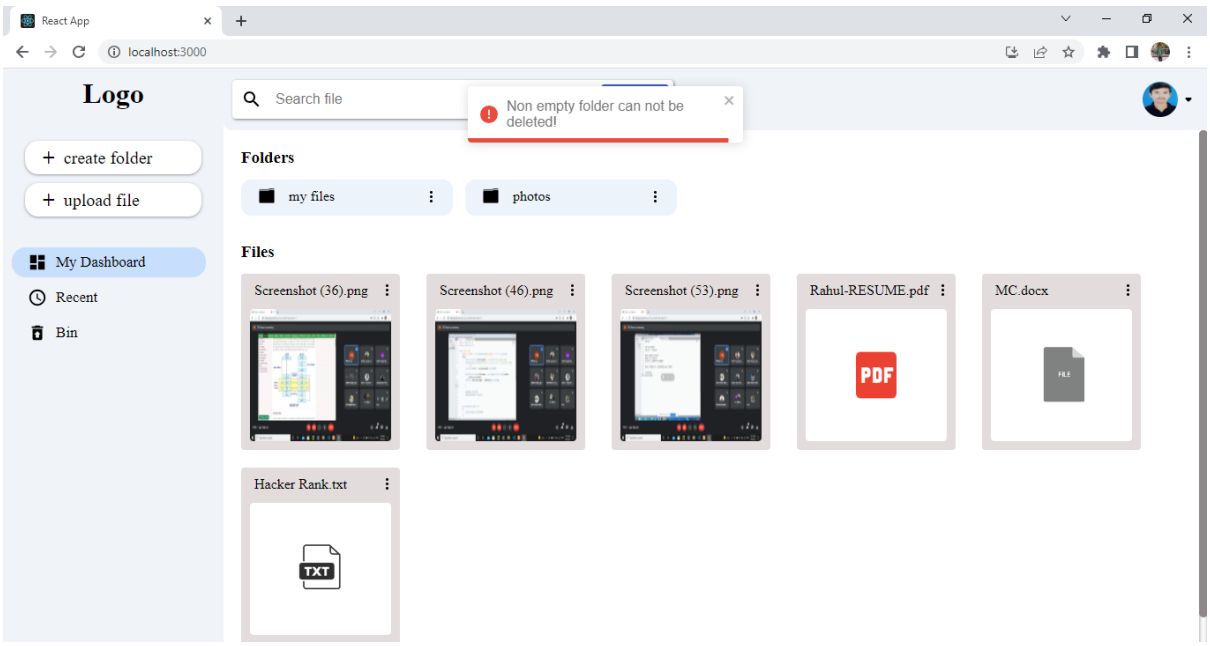
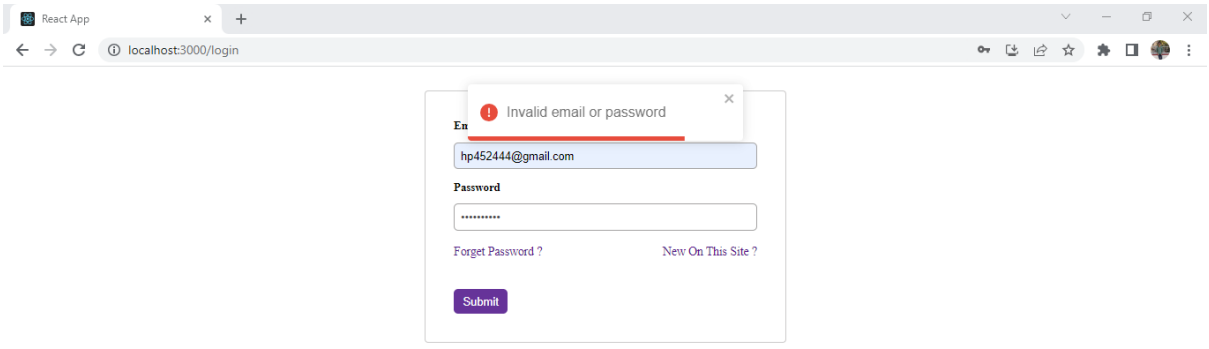
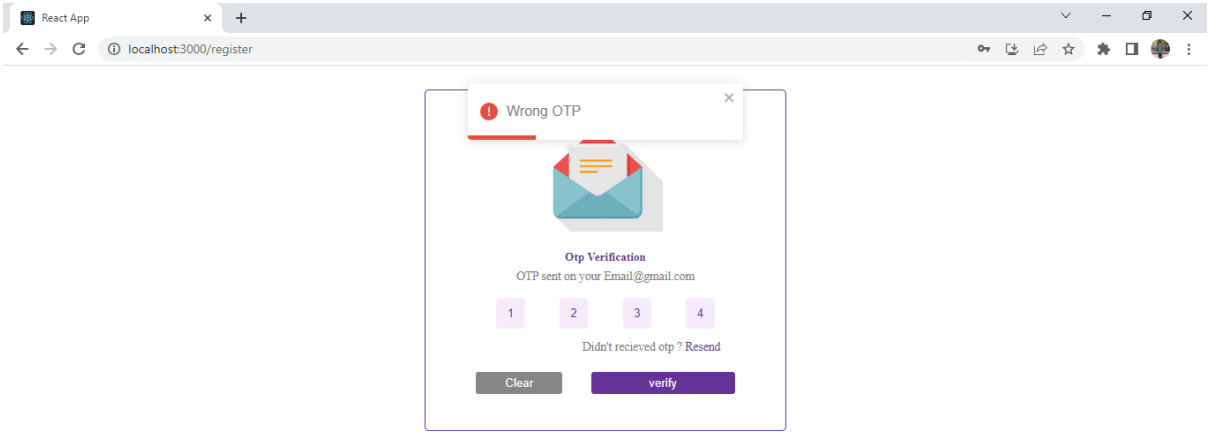
Password
Forget Password ?
New On This Site ?
Submit

CHAPTER -6: Testing






React App
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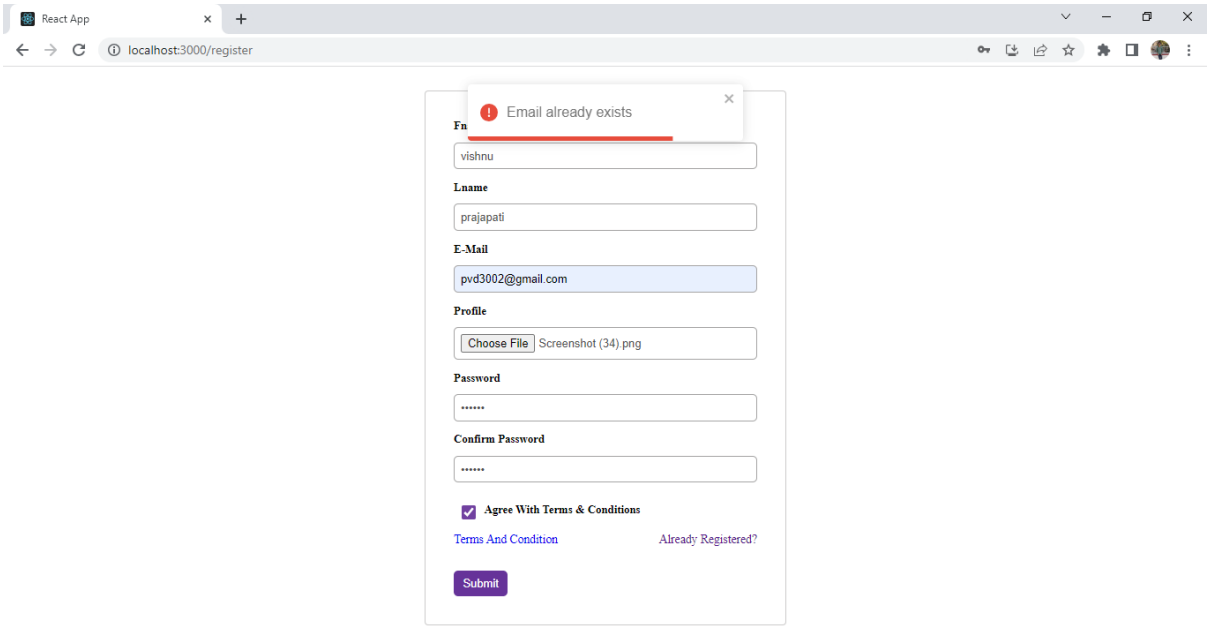
Wrong OTP
Otp Verification
OTP sent on your Email@gmail.com
1
2
3
4
Didn't recieved otp ? Resend
Clear
verify


React App
localhost:3000/register
Email already exists
vishnu
Lname
prajapati
E-Mail
pvd3002@gmail.com
Profile
Choose File
Screenshot (34).png
Password
Confirm Password
Agree With Terms & Conditions
Terms And Condition
Already Registered?
Submit

CHAPTER -7: SUMMARY

7.1 ASSUMPTION

- User remembers his ID & Password while login to the system.
- User has the basic knowledge of the operating system.
- Basic English language.

7.2 LIMITATION

- File is only sharable via gmail.
- Supports limited file formats.

7.3 FUTURE SCOPE

- In future we will try to cover more the social media option to share the document.
- We will make simple and attractive website if requirements of the users.

7.4 CONCLUSION

- The main purpose of the system will fulfill all requirements of user.
- This is to conclude that the project that we undertook was worded upon with a sincere effort.

Bibliography

Google drive: https://drive.google.com