

VIRTUAL KEY FOR YOUR REPOSITORIES

Problem Statement:

Company Lockers Pvt. Ltd. hired you as a Full Stack Developer. They aim to digitize their products and chose LockedMe.com as their first project to start with. You're asked to develop a prototype of the application. The prototype of the application will be then presented to the relevant stakeholders for the budget approval.

Description:

To develop an application that is used to maintain files virtually.

Generic features and three operations:

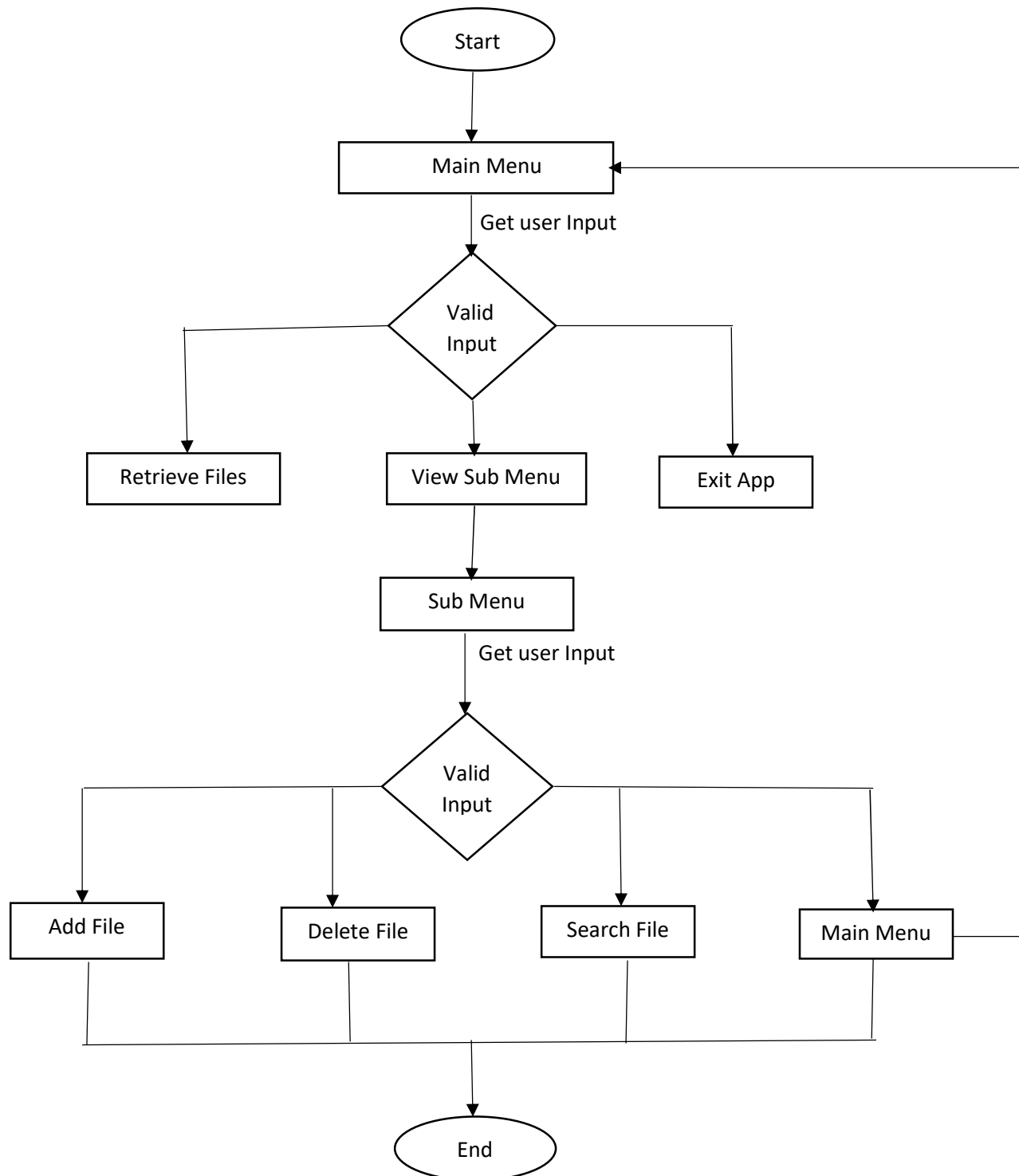
- Retrieving the file names in an ascending order
- Business-level operations:
 - Option to add a user specified file to the application
 - Option to delete a user specified file from the application
 - Option to search a user specified file from the application
 - Navigation option to close the current execution context and return to the main context
- Option to close the application

Developer: Venkata Padmini Bollineni

Sprint Planning: Sprint Duration (1 week)

Sprint	Tasks Achieved
1	Implemented the code for displaying main menu and to perform tasks i.e., Retrieving files, File operations option, Exit Application
2	Implemented the code for displaying sub menu and to perform File Operations i.e., Add file, Delete file, Search file, Switch to main menu
3	Designed code to establish the connection between main menu and sub menu and performed the execution to check against various test cases

Flow Chart:



Algorithm:

1. Start the program.
2. Display the application name and developer details on the welcome screen.
3. Print the Main menu containing options i.e.,
 1. Retrieving files
 2. Sub menu to perform operations on files
 3. Exit Application
4. Get User Input.
5. If the input is '1' then display all the files that are present in the directory in ascending order.
6. If the input is '2' then display Sub Menu
i.e.,
 1. Add File
 2. Delete File
 3. Search file
 4. Main menu and go to step 8.
7. If the input is '3' then exit application.
8. Get User Input.
9. Repeat the process until the user wants to continue.
10. If the input is '1' then read the file name to add. If the file doesn't exist in the directory, then create a file and add it to the directory, else display "File already exists".
11. If the input is '2' then read the file name to delete. If file exists, then delete the file else display "File not found".
12. If the input is '3' then read file name to search. If any file name matches with the given file name, then display "File found at path" else display "File not found".
13. If the input is '4' then go to step 3.
14. Stop.

Core Concepts of java used in the project:

Classes, Objects, Methods, Data Structures, Exception handling, File handling, Collection Framework (ArrayList), Access Modifiers/specifiers, Inbuilt Sort methods, Utility Packages.

GitHub Repository Link:

<https://github.com/Padmini-B/VirtualKeyApplication>

Conclusion:

This Application helps you to maintain files and allows you to perform different operations like adding, deleting, searching and retrieving files Virtually. You can access this application from any device through your browser.