# **Virtual Key for Repositories**

The code for the project is hosted on: GitHub

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This document contains the following sections:

- Sprint Planning
- Core Concepts used in project
- Flow of the Application
- Product capabilities and source code
- Unique Selling point of the Application
- Conclusion

### **Sprint Planning and Task Completion**

Note: A separate document for sprint planning is attached to the Zip.

The project is planned to be completed in two Sprints. The task assumed to be completed are:

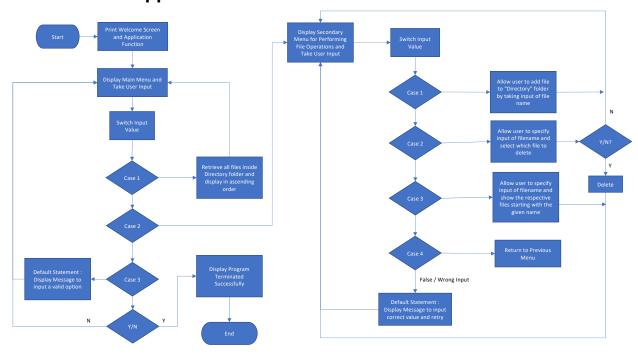
### Sprint 1:

- Flow chart of the application
- Initializing Git repository to track changes of development
- Writing the source code Sprint 2:
- Testing the program with various user inputs
- Pushing project to GitHub
- Creating documentation

## **Core Concepts Used in the Project**

- Collection Framework
- Flow control
- Recursion
- File Handling
- Exception Handling

#### Flow Chart of the Application



### **Product Capabilities**

The application has the following capabilities:

- 1. Show files shows files from the directory in ascending order (Sorted).
- 2. Show files menu shows the following file operations:
  - 2.1.Add a file adds files to the directory.
  - 2.2. Delete a file deletes files from the directory.
  - 2.3. Search for a file searches for file in the directory.
  - 2.4. Return to main menu Returns to main menu.
- 3. Exit the application.

Source code for each of the capabilities with output is shown below: **Note:** Complete source code of the app is zipped please check zip/Gitrepo for reference.

# **Welcome Screen of the Application:**

#### **Show files:**

### Output:

```
Main Menu

1. Show files

2. File Options Menu

3. Exit the application

Existing files:
akanskha.txt
ascii.txt
iphone.txt
logitech.txt
macbookPro.txt
vijay.txt
```

#### File Options Menu: (Add, delete, search, return)

```
obj.MainMenu();
this.MenuHandler();
 public void show() {
        MenuHandler();
    private String getInputSting() {
```

```
System.out.println("Found " + fileName);
```

#### Output:

### FileMenu output:

```
Main Menu

1.Show files

2.File Options Menu

3.Exit the application

2

File Options Menu

1. Add a File

2. Delete a file

3. Search for a file

4. Return to Main Menu
```

### Add file output:

```
File Options Menu

1. Add a File

2. Delete a file

3. Search for a file

4. Return to Main Menu

1

Enter file name:

java.pdf

Adding file:java.pdf

File added: java.pdf
```

### Delete a file output:

```
File Options Menu
1. Add a File
2. Delete a file
3. Search for a file
4. Return to Main Menu
Existing files:
akanskha.txt
ascii.txt
iphone.txt
java.pdf
logitech.txt
macbookPro.txt
vijay.txt
Enter filename to delete:
Deleting file: java.pdf
Are you sure? (Y/N)
Deleted file: java.pdf
```

### Search for a file output:

```
File Options Menu

1. Add a File

2. Delete a file

3. Search for a file

4. Return to Main Menu

5
Enter file name:
Logitech.txt
Searching for file: logitech.txt
Found logitech.txt
```

### **Return Main Menu output:**

```
File Options Menu

1. Add a File

2. Delete a file

3. Search for a file

4. Return to Main Menu

4

Main Menu

1. Show files

2. File Options Menu

3. Exit the application
```

### **Exit the Application:**

```
System.out.println("Quitting the application...");
System.out.println("Are you sure? Y/N");
Scanner sure = new Scanner(System.in);
String s = sure.nextLine(); if(s.equals("y")
|| s.equals("Y")) {
  running = false;
  System.exit(0);} else
{
    MainMenu();
}
```

### **Output:**

```
Main Menu

1.Show files

2.File Options Menu

3.Exit the application

3.

Quitting the application....

Are you sure? Y/N

9.

Application terminated

Process finished with exit code 0
```

### **Unique Selling Points of the Application:**

- 1. The application is designed to keep on running and taking user inputs even after exceptions occur. To terminate the application, appropriate option needs to be selected.
- 2. The application can take any type of file name as input.
- 3. The application provides the list of files while delete. User can enter exact file name from the list to delete.
- 4. The application seamlessly switches between options and return to previous menu after certain file operation is done(adding/deleting/searching)
- 5. The application designed is purely modular. If one wants to update the path, they can change it through source code.

#### **Conclusion:**

Further improvements to the application can be done which may include:

- Functionality to create folders in directory.
- Add and append data to files.
- Search for file based on Type, last modified.