DOCUMENTATION OF PRODUCT

Company Name => Lockers Pvt. Ltd.

Product Name => LockedMe.com

Developer's Name: AKSHAT SANKHYAN

GitHub Link: https://github.com/akshatsankhyan/JavaFSDPhase1Project.git

About Product

The Product "LockedMe.com" is a CLI(Command Line Interface) based application. This application can be used for various file operations such as creating new files and can write data into it, delete and search the existing files and keep track of all the files present in the directory in a sorted manner.

Language & IDE Used

Java8 & IntelliJ.

Sprint Planning

The Sprints are planned in two halves illustrated below:

Sprint 1:

- Understanding the requirements of the Product/Application.
- Designing the Flow Chart Of The Application.
- Implementing Main Menu Functionality.
- Implementing the functionality to close the application on User's Input.

Sprint 2:

- Implementing File Menu Functionality.
- Testing File operations such as adding, deleting, searching file in the Directory.
- Optimising File operations for better results.
- Implementing the functionality to return to the Main Menu from File Options Menu.
- Creating Documentation and ReadMe file for the product.

Working Of Application

Below is the illustration of features of the application along with snapshots.

WELCOME SCREEN

LIST OF FILES

When there are no existing files in the directory.

```
Main Menu
-> Press 1 To Show Existing Files
-> Press 2 To Show File Options Menu
-> Press 3 To Quit The Application
Enter Your Choice : 1
Sorry No Existing Files Found.

Main Menu
-> Press 1 To Show Existing Files
-> Press 2 To Show File Options Menu
-> Press 3 To Quit The Application
Enter Your Choice :
```

When there are existing files in the directory.

```
Main Menu
-> Press 1 To Show Existing Files
-> Press 2 To Show File Options Menu
-> Press 3 To Quit The Application
Enter Your Choice : 1
The Existing Files Are Listed Below :
Company.txt
Name.txt
Platform.txt
Product.txt
```

FILE OPTIONS MENU

```
Main Menu
-> Press 1 To Show Existing Files
-> Press 2 To Show File Options Menu
-> Press 3 To Quit The Application
Enter Your Choice : 2

!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice :
```

FILE OPERATIONS

ADDING A FILE

```
!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice : 1
Enter the File Name you want to create along with the extension : data.txt
File with name data.txt is created!!!
Do you want to write something in this File ? Press y for Yes and n for No.

g
Enter the content you want to write in file : HELLO WORLD
Data is successfully written in the file.
```

DELETING FILE WHEN THAT FILE IS PRESENT

```
!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice : 2
Enter the File Name you want to delete along with the extension : data.txt
File with name data.txt is deleted!!!
```

• DELETING FILE WHEN THAT FILE IS NOT PRESENT

```
!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice : 2
Enter the File Name you want to delete along with the extension : data.txt
Not Able to delete data.txt. Try Again
```

• SEARCHING FILE WHEN THAT FILE IS PRESENT

```
!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice : 3
Enter the File Name you want to search along with the extension : data.txt
You are searching for a file named: data.txt
File named data.txt Found
```

SEARCHING FILE WHEN THAT FILE IS NOT PRESENT

```
!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice : 3
Enter the File Name you want to search along with the extension : data.txt
You are searching for a file named: data.txt
!!!FILE NOT FOUND!!!
```

RETURNING TO MAIN MENU

```
!!!File Options Menu!!!
-> Press 1 To Add a File
-> Press 2 To Delete a File
-> Press 3 To Search a File
-> Press 4 To Return To Menu
Enter Your Choice : 4
Returning To Main Menu......
Main Menu
-> Press 1 To Show Existing Files
-> Press 2 To Show File Options Menu
-> Press 3 To Quit The Application
Enter Your Choice :
```

QUITTING THE APPLICATION

```
Main Menu
-> Press 1 To Show Existing Files
-> Press 2 To Show File Options Menu
-> Press 3 To Quit The Application
Enter Your Choice : 3

Thank You For Using `LOCKEDME.COM`.Hope You Liked Our Application.

Process finished with exit code 0
```

SOURCE CODE SNAPSHOTS

startPoint.java

```
import WelcomeScreen.WelcomeScreen;

no usages

public class startPoint {
    no usages

public static void main(String[] args) {
    WelcomeScreen welcome = new WelcomeScreen();
    welcome.introMenuPage();
    welcome.userInput();
}
```

• WelcomeScreen.java

```
2 usages
(@Override
public void NavigateOption(int choice) {
    switch(choice) {
        case 1:
            DirService.showFiles();
            break;
        case 2:
            MenuService.setMenu();
            break;

        case 3:
            System.out.println("\n Thank You For Using 'LOCKEDME_COM'.Hope You Liked Our Application. ");
            break;

        default:
            System.out.println("Please Enter Valid Option ");
        break;

        }

2 usages
(@Override
public void userInput() {
        int val = 0;
        char o;
        white(val != 3) {
        this.menuOptions();
        System.out.print("Enter Your Choice: ");
            0 = sc.next().charAt(0);
            val = (int) o - 48;
            this.NavigateOption(val);
        }

        }

}
```

FileOperations.java

```
package FileUI;

import java.io.*;
import java.nio.file.Path;
import java.util.*;
import FileServices.*;

2usages
public class FileOperations {

6usages
Scanner sc = new Scanner(System.in);
9usages
String filename;
3usages
char ch;

1usage
public void AddFile() {
```

```
public void AddFile() {
   File file = new File( pathname: DirService.Path() + "/" + filename);
       boolean flag = file.createNewFile();
           System.out.println("Do you want to write something in this File ? Press y for Yes and n for No.");
           ch = sc.next().charAt(0);
               System.out.print("Enter the content you want to write in file : ");
               String fileData = sc.nextLine();
               try {
                   FileWriter writeData = new FileWriter( fileName: DirService.Path() + "/" + filename);
                   writeData.write(fileData);
                    System.out.println("Data is successfully written in the file.");
               } catch (Exception e) {
                   e.printStackTrace();
   } catch(Exception e) {
       e.printStackTrace();
public void DeleteFile()
   System.out.print("Enter the File Name you want to delete along with the extension : ");
   } catch(Exception e) {
       e.printStackTrace();
```

FileOptions.java

• Screen.java

• Folder.java

• MenuService.java

```
package FileServices;

import FileUI.*;

lusage

public class MenuService {
    lusage

public static void setMenu() {
    FileOptions file = new FileOptions();

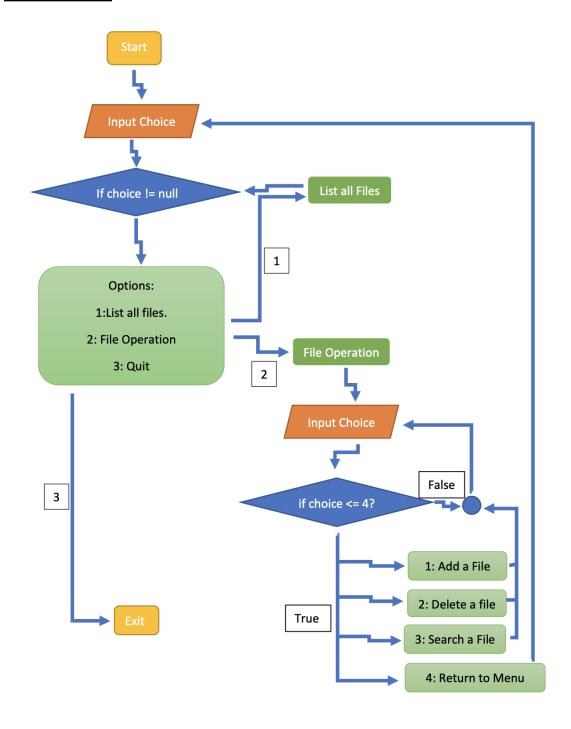
file.userInput();
}

}

}
```

• DirService.java

FLOW CHART



ALGORITHM

- Start
- Input From The User
- While val != 3 perform next Step
- Switch(val)

Case1: List all files in the directory and go back to Step 2 afterwards.

Case2: Go To Step 5

Case3: Go To Step 6

default: Return back to Step 2

[End Of Switch Case Block]

[End Of While Loop]

- Input another choice val from user for File Operations
- While loop val != 4 perform the next Step.
- Switch(val)

Case1: Add a file.

Case2: Delete a file.

Case3: Search a file.

Case4: Return to Step 2.

• default: Return back to Step 5.

[End Of Switch Case Block]

[End Of While Loop]

- End The Program.
- Stop.

CONCLUSION

- The Prototype has a good interface with CLI(Command Line Interface).
- The Prototype is platform independent and robust.
- We can enhance the prototype by a good GUI for more friendly and better user interaction.
- This Prototype can also be upgraded with adding authentication and security features to make it more secure and reliable.
- Users can easily use this prototype and perform the operations.