

LockedMe.com

Developed By :

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Code: https://github.com/kish02/LockedMe_Assesment_FSD1

```
LockedMeMain [Java Application] C:\Users\ksrirajk\.p2\pool\plugins\org.eclipse.justj.openjdk
|
***** LockedMe.com *****
***** Patwa Kishankumar *****

DIRECTORY : C:\Users\ksrirajk\eclipse-workspace\LockedMe\files

MAIN MENU - Select any of the following:
1 -> List files in directory
2 -> Add, Delete or Search
3 -> Exit Program
```

Contents

- Sprint plan and task completion
- The flow of the application
- Concepts used in the project
- Product capabilities, appearance and user interactions
- Unique selling points of the application
- Future Enhancements

Sprints plan and task completion

I planned two sprints to finish the project.

Sprint 1 Backlog

- I want to version control.
- I want a welcome screen.
- I want the main menu.

- I want the expert mode where the user can perform operations on the files.
- I want the application to automatically create a folder and store default files at the start.
- I want to see all files stored in a sorted manner.
- I want the ability to search for files.
- I want the ability to create/add new files.
- I want the ability to write to a file. (create it if it does not exist)
- I want the ability to delete files.
- I want the ability to go back to the main menu.
- I want the ability to exit the application.
- I want my application to be robust.

Sprint 2 Backlog

- I want a better welcome screen.
- I want the options to be better laid out in terms of use.
- I want better error messages in case of exceptions.
- I want to sort like File 1, File 2 and File 10 instead of File 1, File 10 and File 2.
- I want the application to handle invalid inputs and close when the user specifies.
- I want the application to be tested against generally expected errors.
- I want my source code to be better laid out.
- I want detailed documentation.

Source Code :

```
import java.io.File;

import java.io.IOException;

import java.util.Arrays;

import java.util.Scanner;

public class LockedMeMain {

    static String DIRECTORY;

    File folder_name;
```

```

public LockedMeMain() {

    DIRECTORY = System.getProperty("user.dir");

    folder_name = new File(DIRECTORY+"/files");

    if (!folder_name.exists())

        folder_name.mkdirs();

    System.out.println("DIRECTORY : "+ folder_name.getAbsolutePath());

}

private static final String WELCOME_PROMPT =

"\n***** LockedMe.com *****"+

"\n***** Patwa Kishankumar *****\n";

private static final String MAIN_MENU_PROMPT =

"\nMAIN MENU - Select any of the following: \n"+

"1 -> List files in directory\n"+

"2 -> Add, Delete or Search\n"+

"3 -> Exit Program";

private static final String SECONDARY_MENU_PROMPT =

" \nSelect any of the following: \n"+

" a -> Add a file\n"+

" b -> Delete a file\n"+

" c -> Search a file\n"+

" d -> GoBack";

void showPrimaryMenu() {

    System.out.println(MAIN_MENU_PROMPT);

    try{

        Scanner scanner = new Scanner(System.in);

        int option = scanner.nextInt();

        switch (option){

```

```
case 1 : {

showFiles();

showPrimaryMenu();

}

case 2 : {

showSecondaryMenu();

}

case 3 : {

System.out.println("Thank You");

System.exit(0);

}

default: showPrimaryMenu();

}

}

catch (Exception e){

System.out.println("Please enter 1, 2 or 3");

showPrimaryMenu();

}

}

void showSecondaryMenu() {

System.out.println(SECONDARY_MENU_PROMPT);

try{

Scanner scanner = new Scanner(System.in);

char[] input = scanner.nextLine().toLowerCase().trim().toCharArray();

char option = input[0];

switch (option){

case 'a' : {
```

```
System.out.print("\n Adding a file...Please Enter a File Name : ");

String filename = scanner.next().trim().toLowerCase();

addFile(filename);

break;

}

case 'b' : {

System.out.print("\n Deleting a file...Please Enter a File Name : ");

String filename = scanner.next().trim();

deleteFile(filename);

break;

}

case 'c' : {

System.out.print("\n Searching a file...Please Enter a File Name : ");

String filename = scanner.next().trim();

searchFile(filename);

break;

}

case 'd' : {

System.out.println("Going Back to MAIN menu");

showPrimaryMenu();

break;

}

default : System.out.println("Please enter a, b, c or d");

}

showSecondaryMenu();

}

catch (Exception e){
```

```

System.out.println("Please enter a, b, c or d");

showSecondaryMenu();

}

}

void showFiles() {

if (folder_name.list().length==0)

System.out.println("The folder is empty");

else {

String[] list = folder_name.list();

System.out.println("The files in "+ folder_name +" are :");

Arrays.sort(list);

for (String str:list) {

System.out.println(str);

}

}

}

void addFile(String filename) throws IOException {

File filepath = new File(folder_name + "/" + filename);

String[] list = folder_name.list();

for (String file: list) {

if (filename.equalsIgnoreCase(file)) {

System.out.println("File " + filename + " already exists at " + folder_name);

return;

}

}

filepath.createNewFile();

System.out.println("File "+filename+" added to "+ folder_name);

```

```

}

void deleteFile(String filename) {
    File filepath = new File(folder_name + "/" + filename);
    String[] list = folder_name.list();

    for (String file: list) {
        if (filename.equals(file) && filepath.delete()) {
            System.out.println("File " + filename + " deleted from " + folder_name);
        }
    }

    return;
}

System.out.println("Delete Operation failed. FILE NOT FOUND");
}

void searchFile(String filename) {
    String[] list = folder_name.list();

    for (String file: list) {
        if (filename.equals(file)) {
            System.out.println("FOUND : File " + filename + " exists at " + folder_name);
        }
    }

    return;
}

System.out.println("File NOT found (FNF)");
}

public static void main(String[] args) {
    System.out.println(WELCOME_PROMPT);

    LockedMeMain menu = new LockedMeMain();

    menu.showPrimaryMenu();
}

```

}

Screenshots :

Select any of the following:

- a -> Add a file
- b -> Delete a file
- c -> Search a file
- d -> GoBack

a

↳ Adding a file...Please Enter a File Name : abc

File abc added to C:\Users\ksrirajk\eclipse-workspace\LockedMe\files

Select any of the following:

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MAIN MENU - Select any of the following:

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2

Select any of the following:

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b

↳ Deleting a file...Please Enter a File Name : kishan

File kishan deleted from C:\Users\ksrirajk\eclipse-workspace\LockedMe\files

Select any of the following:

- a -> Add a file
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 - c -> Search a file
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-

Select any of the following:

- a -> Add a file
- b -> Delete a file
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- d -> GoBack

d

Going Back to MAIN menu

MAIN MENU - Select any of the following:

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3

Thank You

MAIN MENU - Select any of the following:

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1

The files in C:\Users\ksrirajk\eclipse-workspace\LockedMe\files are :

abc
kishan
test

Select any of the following:

- a -> Add a file
- b -> Delete a file
- c -> Search a file
- d -> GoBack

c

4 Searching a file...Please Enter a File Name : test

FOUND : File test exists at C:\Users\ksrirajk\eclipse-workspace\LockedMe\files

Select any of the following:

- a -> Add a file
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-

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