

Project: LockedMe.com

Company Lockers Pvt. Ltd.

Vighnesh Gajula

Prototype of the application

Phase One Project

GitHub:-https://github.com/Vighnesh3232/PhaseOneProject

Overview

The application's prototype operates without a graphical user interface as a Command Line Interface (CLI). It is used to perform file operations like creating new files with content, deleting files, or searching for files in a particular directory before listing them in a sorting order.

The implementation is carried out with the assistance of IntelliJ's IDE and Java 19.0.1

Sprint Planning

The Execution is finished in two Sprint which are referenced beneath:

Sprint 1:

- Make the requirements and specifications clearer.
- Put the view content mechanism into use.
- Create a list of all files in alphabetical order.
- Implement features for a secure program termination.

Sprint 2:

- Add the capability to create files alongside the content.
- Include a way to delete a file if it's in a directory specified by the user.
- Carry out usefulness to look through a document in a similar catalog.
- Documentation

DOCUMENTATION OF THE FUNCTIONALITY

The various options from which the user can select specific file operations are listed here.

This the FrontScreen which user interacts

Option 1) Show all files in sorted order.

This option will let the user see a list of files in the specified directory in sorted order.

```
Library/Java/JavaVirtualMachines/jdk-19.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ
                                ***** Welcome To LockedMe.com *****
عر
                                      Developed::Vighnesh Gajula
Ō
Ð
       1. Show all files in sorted order
==
       2.Operations
       3.Exit from the opertaions
       .DS_Store
       Aadhar_Card.txt
       Bank_passbook.txt
       Caste_certificate.txt
       Driving_License.txt
       Employee_Id.txt
       Nationality_certificate.txt
       PanCard.txt
       Pranesh.txt
       Ramesh.txt
       Umarani.txt
       Vighnesh.txt
       Voter_ID.txt
```

Option 2) Operations:

```
Run: 🗐 main
       /Library/Java/JavaVirtualMachines/jdk-19.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ
                               ***** Welcome To LockedMe.com *****
J 4
                                      Developed::Vighnesh Gajula
∄
       1. Show all files in sorted order
=
       2.Operations
       3.Exit from the opertaions
       Please select an option from below
       1.Add a file to the Directory
       2.Delete a file from Directory
       3. Search a file in the Directory
       4. Move to the main menu
```

This option will let users provide several file operations with.

The Operations command gives us a few operations to perform such as:

- 1.Add a file to the Directory
- 2.Delete a file from Directory
- 3. Search a file in the Directory
- 4. Move to the main menu

For the operations in Operations command.

1.Add a file to the Directory:- Creates File

```
Run: main ×

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1.Show all files in sorted order
2.Operations
3.Exit from the operations

Please select an option from below

1.Add a file to the Directory
2.Delete a file from Directory
3.Search a file in the Directory
4.Move to the main menu

Enter the File Name

Test_file
/Users/viggajul/Downloads/PhaseOneProject/target/files/Test_file.txt
File created Successfully: Test_file
```

2. <u>Delete a file from Directory</u>: This command will delete the created file.

```
Please select an option from below

1.Add a file to the Directory
2.Delete a file from Directory
3.Search a file in the Directory
4.Move to the main menu
2
Enter the file name to delete

Test_file
/Users/viggajul/Downloads/PhaseOneProject/target/files/Test_file.txt
File Test_file.txt has been deleted successfully
```

3. Search a file in the Directory: This command will search the created file.

```
Please select an option from below

1.Add a file to the Directory
2.Delete a file from Directory
3.Search a file in the Directory
4.Move to the main menu
3
Enter the file name to search
Aadhar_Card
File present in the Application
```

4. Move to the main menu: This command will exit back from the Operations.

```
Please select an option from below

1.Add a file to the Directory
2.Delete a file from Directory
3.Search a file in the Directory
4.Move to the main menu

End of the operations
1.Show all files in sorted order
2.Operations
3.Exit from the opertaions
```

Option 3) Exit:- This will permit clients to exit from the program securely.

SOURCE CODE

1) Front Screen / welcome screen

```
1 usage

public static void second(){

ArrayList<String> screen= new ArrayList<~>();

screen.add("1.Add a file to the Directory ");

screen.add("2.Delete a file from Directory");

screen.add("3.Search a file in the Directory");

screen.add("4.Move to the main menu");

for(String str: screen){

System.out.println(str);
}

public void screen1(ArrayList<String> opt){

for(String str: opt){

System.out.println(str);
}

System.out.println(str);
}

public void screen1(ArrayList<String> opt){

System.out.println(str);
}

}
```

2) Files component

```
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import jown in
```

```
public static ArrayListsStringp getFiles(){
    File obj = new File(dir);
    String[] contents = obj.List();
    ArrayListsStringp fanalList = new ArrayList<>();
    for (String str contents){
        finalList.odd(st);
    }
    collections.sort(finalList);
    return finalList;
}

lusage
public static void ListAllFiles(){
    System.out.println(dir);
    ArrayListStringp ls = getFiles();
    for(String str:ls){
        System.out.println(str);
    }
    System.out.println(str);
}

system.out.println();

lusage
public static void Delete(String name){
    File file = new File( pathnamed dir*"/"*name*".txt");
    System.out.println(file);
    searchFiles(name);
    if (file.delete()){
        System.out.println("File "*name*".txt has been deleted successfully");
    }-late {
        System.out.println("Unable to delete the file");
    }
}

}
```

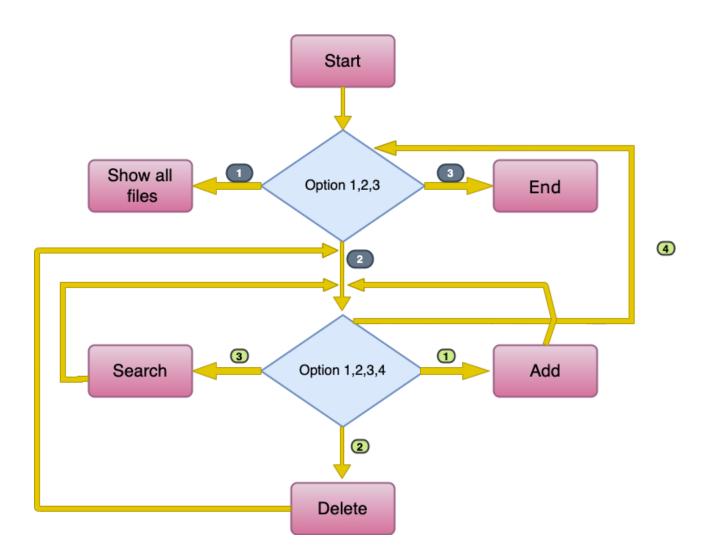
3) Operations component

```
Scanner sc = new Scanner(System.in);
boolean flag = true;
while (flag) {
    System.out.println("\nPlease select an option from below\n");
    int opt = sc.nextInt();
switch (opt) {
              String name=sc.next();
              String NAME= sc.next();
```

4) Main Component

```
public static void main(String[] args) {
    Scanner sc = new Scanner( System.in);
    FrontScreen.main();
   while (flag ){
        FrontScreen.first();
        switch (opt){
                Files.ListAllFiles();
                Operations.main();
                flag = false;
                System.out.println(" please select valid options");
System.out.println("End of application");
```

FLOW DIAGRAM



> Core Concepts used in this project are mostly basic Java libraries such as Class & Objects, Packages, Interfaces, Collections, ArrayList, Access specifier, Try-catch block, File Handling Concepts, Error Exception handling, Inheritance, abstract, final, static methods.

Algorithm

```
Step 1- Start
```

Step 2- Input Choice from the Client.

Step 3- While Flag != False at that point go to step 4.

Step 4- Switch(opt)

case 1:List all files within the indicated registry and then go back to step 2.

case 2: Go to step 5.

default: Return back to step 2.

[End of switch case block]

[End of while loop]

Step 5- Input another choice opt from the user to perform file operations.

Step 5.1 - Flag != False then go to step 5.2.

Step 5.2 - Switch(opt)

case 1:Add a file to the Directory.

case 2: Delete a file from Directory

case 3:Search a file in the Directory.

case 4: Move to the main menu which sends to step 2.

default: Return back to step 5.

[End of switch case block]

[End of while loop]

Step 6- End the program.

Step 7- Stop.

Conclusion

- 1: The model is strong and stage autonomous.
- 2: Clients can effectively utilize the model and securely exit out of it.
- 3: The model includes a great interface with CLI (Command Line Interface).
- 4: As an engineer, we will upgrade it by presenting a few modern highlights such as adding in a record or overwriting a record and the record points of interest for which the client selected.
- 5: This model in spite of the fact that it is strong but client can as it were associated with terminal or CLI so we can create a great GUI interface for more superior user-friendly.
- 6: This model can moreover be executed with multithreading to empower way better performance.
- 7: And lastly, this prototype can be upgraded by implementing with authentication, validators, and securities patches to make it more versatile and secure in both local environment and global.