

Name	Suyash verma
Project Name	LockedMe.com
Phase and Batch	Java FSD Phase 1 Feb 2022 Cohort 2

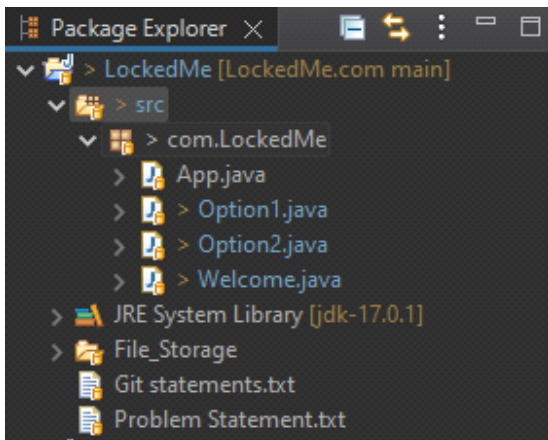
Technology

Java Programming

Java Concept use

- File Handling in Java
- Control Structures
- Java Collections
- Exceptional Handling
- Java Object Oriented Programming
- Naming Standards
- Access Modifiers

Project Folder Structures



Source Code

App.java

```
package com.LockedMe;
import java.util.Scanner;
public class App {

    static Scanner scan = new Scanner(System.in);

    public static void main(String []args) {
        Option1.setCurrentDirectory("LockedMe"); //set new current directory

        Welcome.appInfo();

        Welcome.displayMenu();
    }
}
```

```
}  
  
}
```

Welcome.java

```
package com.LockedMe;  
import java.util.Scanner;  
  
public class Welcome {  
    static Scanner scan = new Scanner(System.in);  
    public static void appInfo() {  
        System.out.println("*****");  
        System.out.println("|*Welcome to LockedMe*|");  
        System.out.println("*****");  
  
        System.out.println("Application Name : LockedMe.com");  
        System.out.println("Developer Name : Suyash verma");  
  
        System.out.println("*****");  
    }  
  
    public static void displayMenu() {  
        System.out.println("Menu : Select ");  
        System.out.println("*****");  
        System.out.println("1 -> View Files in the directory");  
        System.out.println("2 -> Operations on File");  
        System.out.println("3 -> Close Application");  
        System.out.println("*****");  
  
        System.out.println("Enter option number: ");  
        while(true) {  
            int option = scan.nextInt();  
            switch(option) {  
                case 1:  
                    System.out.println("Files in the directory are: ");  
                    Option1.showFiles();  
                    break;  
                case 2:  
                    System.out.println("You can perform following operations on files: ");  
                    menuForOperationsOnFile();  
                    break;  
                case 3:  
                    System.out.println("*****");  
                    System.out.println("***** XXX END XXX *****");  
                    System.out.println("*****");  
                    System.exit(0);  
            }  
        }  
    }  
}
```

```

break;
default:
System.out.println(Option1.getCurrentDirectoryPath());
System.out.println("Choose from the Menu");
System.out.print("<-- Main menu");
}
}
}

public static void menuForOperationsOnFile() {
System.out.println("Menu : Select ");
System.out.println("*****");
System.out.println("1 -> Search File");
System.out.println("2 -> Add a File");
System.out.println("3 -> Delete a File");
System.out.println("4 -> Back to Main menu");
System.out.println("*****");
System.out.println("Enter option number: ");
while(true) {
int option = scan.nextInt();
switch(option) {
case 1:
System.out.println("Search File is selected. Enter file name: ");
String fileName = scan.next();
Option2.searchFile(fileName);
break;
case 2:
System.out.println("Add File is selected. Enter file name: ");
String fileName1 = scan.next();
Option2.addFile(fileName1);
break;
case 3:
System.out.println("Delete File is selected. Enter file name: ");
String fileName2 = scan.next();
Option2.deleteFile(fileName2);
break;
case 4:
System.out.println("Back to main menu: ");
displayMenu();
}
}
}
}

```

Option1.java

```
package com.LockedMe;
```

```

import java.io.File;
import java.util.Arrays;
public class Option1 {

static String directory_path =
"C:\\Users\\verma\\OneDrive\\Desktop\\Simplilearn\\Projects\\LockedMe.com\\File_Storage";
static String directory_name = directory_path + "LockedMe";

public static Boolean setCurrentDirectory(String new_directory_name)
{
    boolean result = false; // Boolean indicating whether directory was set
    File directory; // Desired current working directory
    directory_name =
"C:\\Users\\verma\\OneDrive\\Desktop\\Simplilearn\\Projects\\LockedMe.com\\File_Storage\\" +
new_directory_name;
    directory = new File(directory_name).getAbsolutePath();
    if (directory.exists() || directory.mkdirs())
    {
        result = (System.setProperty("user.dir", directory.getAbsolutePath()) != null);
    }

    return result;
}

public static String getCurrentDirectoryPath() {
return directory_name;
}

public static void showFiles() {
File directoryPath = new File(directory_name);
String files[] = directoryPath.list();
Arrays.sort(files);
System.out.println();
for(int i=1;i<=files.length;i++) {
System.out.println(i + " -> " + files[i-1]);
}
}
}
}

```

Option2.java

```

package com.LockedMe;

import java.io.File;
import java.util.Scanner;
import java.util.Arrays;

```

```

import java.io.FileWriter;
import java.io.IOException;

public class Option2 {

    static Scanner scan = new Scanner(System.in);
    public static void performOption2() {

    }
    //search file in the directory
    public static Boolean searchFile(String fileName) {
        File directoryPath = new File(Option1.directory_name);
        String files[] = directoryPath.list();
        Arrays.sort(files);
        for(int i=0;i<files.length;i++) {
            System.out.println(files[i]);
        }
        for(int i=0;i<files.length;i++) {
            if(files[i].equals(fileName)) {
                System.out.println(fileName + " exists in the folder");
                return true;
            }
        }
        System.out.println(fileName + " doesn't exists in folder");
        return false;
    }
    //add file in the directory
    public static void addFile(String fileName) {
        String file_name = Option1.directory_name + "\\\" + fileName;
        System.out.println(file_name);
        File newFile = new File(file_name);
        if(newFile.exists()) {
            System.out.println("File already exists");
        }
        else {
            try {
                if(newFile.createNewFile()) {
                    addContentInFile(file_name);
                    System.out.println("New file created with filename: " + fileName);
                }
            }catch (Exception e) {
                // TODO Auto-generated catch block
                //e.printStackTrace();
                System.out.println(e);
            }
        }
    }
    //delete a file in the directory

```

```

public static void deleteFile(String fileName) {
String file_name = Option1.directory_name + "\\ " + fileName;
System.out.println(file_name);
File myObj = new File(file_name);
    if (myObj.delete()) {
        System.out.println("Deleted the folder: " + myObj.getName());
    } else {
        System.out.println("Failed to delete the folder.");
    }
}

//add content in the file
public static void addContentInFile(String file_name) {
try {
System.out.print("Enter number of lines: ");
int count = Integer.parseInt(scan.next());

File curr_working_file = new File(file_name);
if(curr_working_file.canWrite()) {
try {
FileWriter myWriter = new FileWriter(file_name);
for(int i=1;i<=count;i++) {
System.out.println("Enter line: ");
myWriter.write(scan.nextLine() + "\n");
}
myWriter.close();
}catch(IOException e) {
System.out.println(e);
}

}
else
{
System.out.println("Do not have write access to the file.");
}
}catch(Exception e) {
System.out.println(e);;
}
}
}
}

```

Project Screenshots

```
Console X
App [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (14-Mar-2022, 8:29:33 pm)

*****
*Welcome to LockedMe*
*****

Application Name : LockedMe.com
Developer Name   : Suyash verma
*****
Menu : Select
*****
1 -> View Files in the directory
2 -> Operations on File
3 -> Close Application
*****
Enter option number:
```

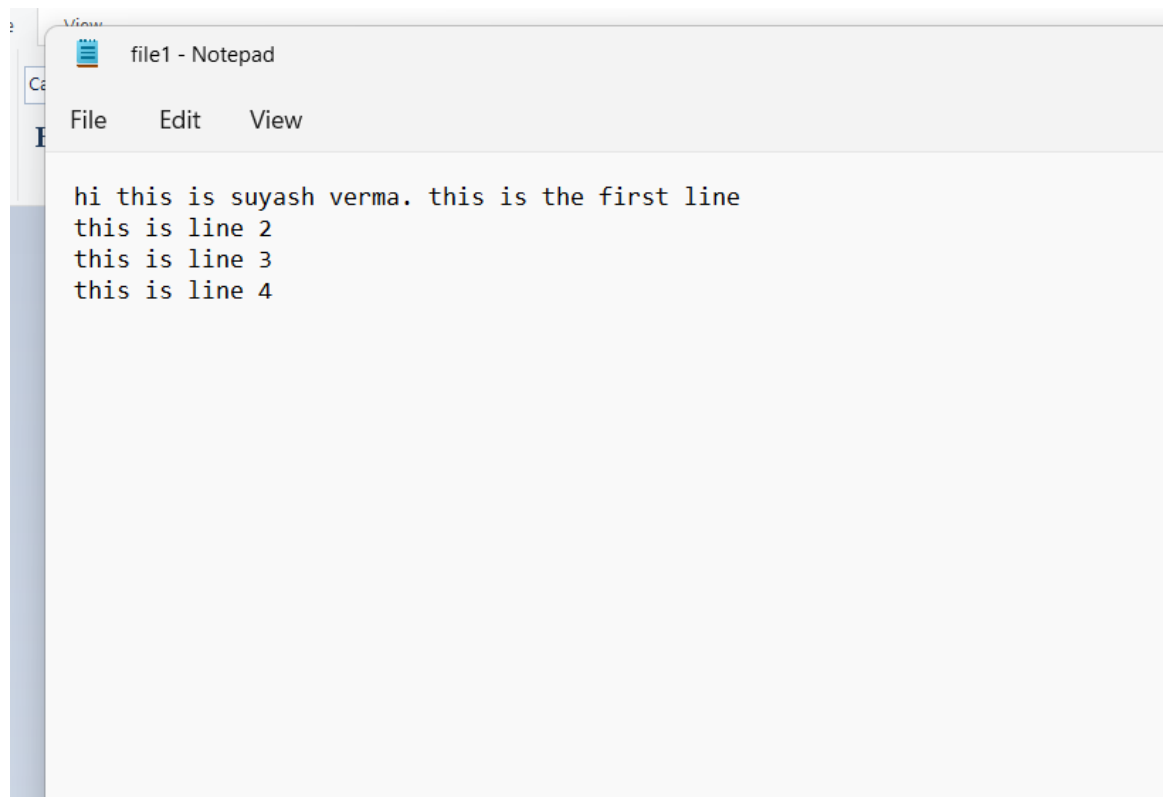
```
Enter option number:
1
Files in the directory are:

1 -> f1.txt
2 -> f2.txt
3 -> suyash.txt
4 -> verma1.txt
5 -> verma2.txt
6 -> verma3.txt
7 -> verma4.txt
```

```
2
You can perform following operations on files:
Menu : Select
*****
1 -> Search File
2 -> Add a File
3 -> Delete a File
4 -> Back to Main menu
*****
Enter option number:
```

```
Enter option number:
1
Search File is selected. Enter file name:
suyash.txt
suyash.txt exists in the folder
```

```
*****
1 -> Search File
2 -> Add a File
3 -> Delete a File
4 -> Back to Main menu
*****
Enter option number:
2
Add File is selected. Enter file name:
file1.txt
Enter number of lines: 4
Enter line:
hi this is suyash verma. this is the first line
Enter line:
this is line 2
Enter line:
this is line 3
Enter line:
this is line 4
New file created with filename: file1.txt
```



file1 - Notepad

File Edit View

hi this is suyash verma. this is the first line
this is line 2
this is line 3
this is line 4


```
Enter option number:
3
Delete File is selected. Enter file name:
verma2.txt
Deleted the file: verma2.txt
3
Delete File is selected. Enter file name:
suyash.txt
No such file exists.

3
Delete File is selected. Enter file name:
xyz.xyz
No such file exists.
```

```
4
Back to main menu:
Menu : Select
*****
1 -> View Files in the directory
2 -> Operations on File
3 -> Close Application
*****
Enter option number:
```

```
Enter option number:
3

*****
***** XXX END XXX *****
*****
```

Git hub [HYPERLINK "https://github.com/suyash-verma22/LockedMe.com"](https://github.com/suyash-verma22/LockedMe.com) [HYPERLINK "https://github.com/suyash-verma22/LockedMe.com"](https://github.com/suyash-verma22/LockedMe.com) [HYPERLINK "https://github.com/suyash-verma22/LockedMe.com"](https://github.com/suyash-verma22/LockedMe.com) repository : [\[https://github.com/suyash-verma22/LockedMe.com\]](https://github.com/suyash-verma22/LockedMe.com)

