



LockedMe.com

26:01:2022

Hina Naz

Company Lockers Pvt Ltd

SimpLiLearn Phase-1 Assessment

MS FSD DEC 2021 Cohort 1

Overview

Company Lockers Pvt. Ltd. hired you as a Full Stack Developer. They aim to digitize their products and chose LockedMe.com as their first project to start with. You're asked to develop a prototype of the application. The prototype of the application will be then presented to the relevant stakeholders for the budget approval. Your manager has set up a meeting where you're asked to present the following in the next 15 working days (3 weeks):

Goals

1. Code to display the welcome screen. It should display:
 - a. Application name and the developer details
 - b. The details of the user interface such as options displaying the user interaction information
 - c. Features to accept the user input to select one of the options listed
2. The first option should return the current file names in ascending order. The root directory can be either empty or contain few files or folders in it
3. The second option should return the details of the user interface such as options displaying the following:
 - a. Add a file to the existing directory list
 - i. You can ignore the case sensitivity of the file names
 - b. Delete a user specified file from the existing directory list
 - i. You can add the case sensitivity on the file name in order to ensure that the right file is deleted from the directory list
 - ii. Return a message if FNF (File not found)
 - c. Search a user specified file from the main directory
 - i. You can add the case sensitivity on the file name to retrieve the correct file
 - ii. Display the result upon successful operation
 - iii. Display the result upon unsuccessful operation
 - d. Option to navigate back to the main context
4. There should be a third option to close the application

Specifications

- Eclipse: An IDE to code for the application
- Java: A programming language to develop the prototype
- Git: To connect and push files from the local system to GitHub
- GitHub: To store the application code and track its versions
- Scrum: An efficient agile framework to deliver the product incrementally
- Search and Sort techniques: Data structures used for the project is LinkedList

- Specification document: Google Docs

Milestones

1.Sprint1:2 hour

2.Sprint2: 2 hour

3.Sprint 3:2 hour

Total time for project=6 hours

INDEX

LockedMe.comProject for Phase-1	
Full Name	Hina Naz
Batch	MS FSD DEC 2021 Cohort 1
Student email id	hnaz87@gmail.com
Project Title	LockedMe.com
GithubprojectLink	https://github.com/hnaz87/FSDLockedMe.comProject

SOURCE CODE

```
package mypackage;
import java.util.*;
import java.io.*;

public class LockedMe {

    static final String projectFilespath="C:\\Users\\Administrator\\eclipse-workspace\\LockedMe.com\\TextFiles";
    static final String errorMessage="An unexpected error happened. Please contact the admin@Lockedme.com";

    public static void mainOptions()
    {
        Scanner obj = new Scanner(System.in);

        System.out.println("*****");
        System.out.println("\n Explore the world of Information and Contribute to it!!!! \n");
        System.out.println("*****");
        System.out.println("\n 1.Read Existing Pages \n 2.Make you own \n 3.Close \n");
        try
        {
            System.out.println("Enter your choice \n");
            int option= obj.nextInt();
            if(option == 1)
            {
                viewFiles();
                mainOptions();
            }
            else if(option == 2)
            {
                subOptions();
            }
            else if(option==3)
            {
                System.out.println("Thanks for using LockedMe.com.Plz visit again.");
                System.exit(0);
            }
            else
            {
                System.out.println("Invalid choice.Enter a choice from 1-3");
                mainOptions();
            }
        }
        catch(Exception ex)
        {
            System.out.println(errorMessage);
        }
        finally
        {
            obj.close();
        }
    }
}
```

```
public static void subOptions()
{
    Scanner obj = new Scanner(System.in);

    System.out.println("\n 1-Add a file\n 2-Delete a file \n 3-Search a file\n 4-Back to Main
Menu");

    try
    {
        System.out.println("\n Enter your choice :\n");
        int suboption=obj.nextInt();

        switch(suboption)
        {
            case 1: addFile();
                    subOptions();
                    break;
            case 2: deleteFile();
                    subOptions();
                    break;
            case 3: SearchFile();
                    subOptions();
                    break;
            case 4: System.out.println("returning to MainScreen");
                    mainOptions();

                    break;
            case 5: System.out.println("Invalid choice.Enter your choice
from 1-4");

                    subOptions();

        }

    }
    catch(Exception ex)
    {
        System.out.println(errorMessage);

    }
    obj.close();
}
```

```
public static void main(String[] args)throws IOException
{
    // TODO Auto-generated method stub
    /**Welcome Screen of LockedMe.com*/

    System.out.println("=====");
    System.out.println("\t\t\t \b Welcome to LockeMe.com");

    System.out.println("=====");
    System.out.println("\t\t ***** developed by Hina Naz.*****\n\n\n");

    System.out.println("\t\t#### How about getting to know about LockedMe.com ####\n\n\n");
    System.out.println("-----");

    mainOptions();

}

//Function to display the existing files in directory
public static void viewFiles()
{
    System.out.println("Thanks for choosing option 1\n");
    try
    {
        File folder= new File(projectFilespath);
        File[] listOfFiles=folder.listFiles();

        if(listOfFiles.length==0)
        {
            System.out.println("No files Exist in Directory");
        }
        else
        {
            System.out.println("The files in ascending order are: \n");
            for(var l:listOfFiles)
            {
                System.out.println(l.getName());
            }
        }
    }
}
```



```
        }

    }

    catch(Exception ex)
    {

        System.out.println(errorMessage);

    }

}

//Function to create a file and add data to it
public static void addFile()
{
    Scanner obj=new Scanner(System.in);
    try
    {
        System.out.println("Enter the file name to be added \n");
        String filename;
        int linescount;

        filename= obj.nextLine();
        System.out.println("Enter the lines to be written in the file");
        linescount=Integer.parseInt(obj.nextLine());
        FileWriter file= new FileWriter(projectFilespath+"\\ "+filename);
        System.out.println("Enter the text to be written in the file");
        for(int i=0;i<linescount;i++)
        {

            file.write(obj.nextLine()+"\n");

        }
        System.out.println("success");
        file.close();

    }
    catch(Exception ex)
    {

        System.out.println(errorMessage);
        subOptions();

    }

    obj.close();
}
```

```
public static void deleteFile()
{
    Scanner obj=new Scanner(System.in);
    try
    {
        System.out.println("Enter the file name to be deleted \n");
        String filename;

        filename= obj.nextLine();
        File file= new File(projectFilespath+"\\ "+filename);
        if(file.exists())
        {
            file.delete();
            System.out.println("File deleted successfully");
        }
        else
        {
            System.out.println("file does not exist");
        }
    }
    subOptions();
}
catch(Exception ex)
{
    System.out.println(errorMessage);
    System.exit(0);
}

obj.close();
}

public static void SearchFile()
{
    Scanner obj=new Scanner(System.in);
    try
    {
        System.out.println("Enter the file name to be searched \n");
        String filename;

        filename= obj.nextLine();
        File folder= new File(projectFilespath);
        File[] listOfFiles=folder.listFiles();
        LinkedList<String> filenames=new LinkedList<String>();
        for(var l:listOfFiles)
            filenames.add(l.getName());
        if(filenames.contains(filename))
```

```
        System.out.println("File found");
    else
        System.out.println("file not found");
    subOptions();
    }
    catch(Exception ex)
    {
        System.out.println(errorMessage);
        System.exit(0);
    }

    obj.close();

}

}
```



SCREENSHOTS

```
=====
                        Welcome to LockeMe.com
=====
***** developed by Hina Naz.*****

##### How about getting to know about LockedMe.com #####

-----
*****

Explore the world of Information and Contribute to it!!!!

*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice
```

Test Case Scenario-1:

Code to display the welcome screen. It should display:

- Application name and the developer details
- The details of the user interface such as options displaying the user interaction information
- Features to accept the user input to select one of the options listed

Status:Passed

```
-----
                               @ Welcome to LockeMe.com
=====
***** developed by Hina Naz.*****

##### How about getting to know about LockedMe.com #####

-----
*****

Explore the world of Information and Contribute to it!!!!

*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice

1
Thanks for choosing option 1

No files Exist in Directory
*****

Explore the world of Information and Contribute to it!!!!

*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice
```

```
*****

Explore the world of Information and Contribute to it!!!!

*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice

1
Thanks for choosing option 1

The files in ascending order are:

google.txt
Infosys.txt
wipro.txt
*****

Explore the world of Information and Contribute to it!!!!

*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice
```

Test Case Scenario-2:

- The first option should return the current file names in ascending order. The root directory can be either empty or contain few files or folders in it

Status:Passed

Sprint 1:

User Story:Test case Scenario1 &2

core concepts of java,if-else,switch and collections is used.

Time taken:2 hours

First Commit done.

```
*****
Explore the world of Information and Contribute to it!!!!
*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice

2

1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu

Enter your choice :

<
```

Test Case Scenario-3:

The second option should return the details of the user interface such as options displaying the following:

- Add file
- Delete file
- Search file
- Back to main context

Status:Passed


```
*****
Explore the world of Information and Contribute to it!!!!
*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice

2

1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu

Enter your choice :

1
Enter the file name to be added

Microsoft.txt
Enter the lines to be written in the file
1
Enter the text to be written in the file
Microsoft is a good company
success

1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu

Enter your choice :
```

Test Case Scenario-4:

- Add a file to the existing directory list
 - You can ignore the case sensitivity of the file names
- Delete a user specified file from the existing directory list
 - You can add the case sensitivity on the file name in order to ensure that the right file is deleted from the directory list
 - Return a message if FNF (File not found)

Status:Passed

```
2
Enter the file name to be deleted
```

```
wipro.txt
File deleted successfully
```

```
1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu
```

```
Enter your choice :
```

```
2
Enter the file name to be deleted
```

```
hina.txt
file does not exist
```

```
1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu
```

```
Enter your choice :
```

Test Case Scenario-5:

- Delete a user specified file from the existing directory list
 - You can add the case sensitivity on the file name in order to ensure that the right file is deleted from the directory list
 - Return a message if FNF (File not found)

Status:Passed

Sprint 2:

User Story:Test case Scenario3,4 &5

core concepts of java, collections,Files is used.

Time taken:2 hours

Second Commit done

```
Enter your choice :  
  
3  
Enter the file name to be searched  
  
infosys.txt  
file not found  
  
1-Add a file  
2-Delete a file  
3-Search a file  
4-Back to Main Menu  
  
Enter your choice :  
  
3  
Enter the file name to be searched  
  
wipro.txt  
file not found  
  
1-Add a file  
2-Delete a file  
3-Search a file  
4-Back to Main Menu  
  
Enter your choice :  
  
3  
Enter the file name to be searched  
  
Infosys.txt  
File found  
  
1-Add a file  
2-Delete a file  
3-Search a file  
4-Back to Main Menu  
  
Enter your choice :
```

Test Case Scenario-6:

- Search a user specified file from the main directory
 - You can add the case sensitivity on the file name to retrieve the correct file
 - Display the result upon successful operation
 - Display the result upon unsuccessful operation
-

Status:Passed

```
1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu
```

```
Enter your choice :
```

```
4
```

```
returning to MainScreen
```

```
*****
```

```
Explore the world of Information and Contribute to it!!!!
```

```
*****
```

```
1.Read Existing Pages
2.Make you own
3.Close
```

```
Enter your choice
```

Test Case Scenario-7:

- Option to navigate back to the main context

Status:Passed

- 1.Read Existing Pages
- 2.Make you own
- 3.Close

Enter your choice

1

Thanks for choosing option 1

The files in ascending order are:

google.txt
Infosys.txt
Microsoft.txt

Explore the world of Information and Contribute to it!!!!

- 1.Read Existing Pages
- 2.Make you own
- 3.Close

Enter your choice

4

Invalid choice.Enter a choice from 1-3

Explore the world of Information and Contribute to it!!!!

- 1.Read Existing Pages
- 2.Make you own
- 3.Close

Enter your choice

Explore the world of Information and Contribute to it!!!!

- 1.Read Existing Pages
- 2.Make you own
- 3.Close

Enter your choice

2

- 1-Add a file
- 2-Delete a file
- 3-Search a file
- 4-Back to Main Menu

Enter your choice :

5

Invalid choice.Enter your choice from 1-4

- 1-Add a file
- 2-Delete a file
- 3-Search a file
- 4-Back to Main Menu

Enter your choice :

Test Case Scenario-7:

- Option to navigate back to the main context

Status:Passed

```
Enter your choice
2
1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu

Enter your choice :
1
Enter the file name to be added
aa
Enter the lines to be written in the file
ff
An unexpected error happened. Please contact the admin@Lockedme.com

1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu

Enter your choice :
1
*****

Explore the world of Information and Contribute to it!!!!

*****

1.Read Existing Pages
2.Make you own
3.Close

Enter your choice
3
Thanks for using LockedMe.com.Plz visit again.
```

Test Case Scenario-8:

- There should be a third option to close the application

Status:Passed

```
Enter your choice
2
1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu
Enter your choice :
1
Enter the file name to be added
aa
Enter the lines to be written in the file
ff
An unexpected error happened. Please contact the admin@Lockedme.com
1-Add a file
2-Delete a file
3-Search a file
4-Back to Main Menu
Enter your choice :
1
```

Test Case Scenario-9:

Wrong Input provided in creating a file which should be handled.

Status:Passed

Sprint 3:

User Story:Test case Scenario6,7 ,8 &9

core concepts of java, collections,Files is used,LinkedLists and Exception handling

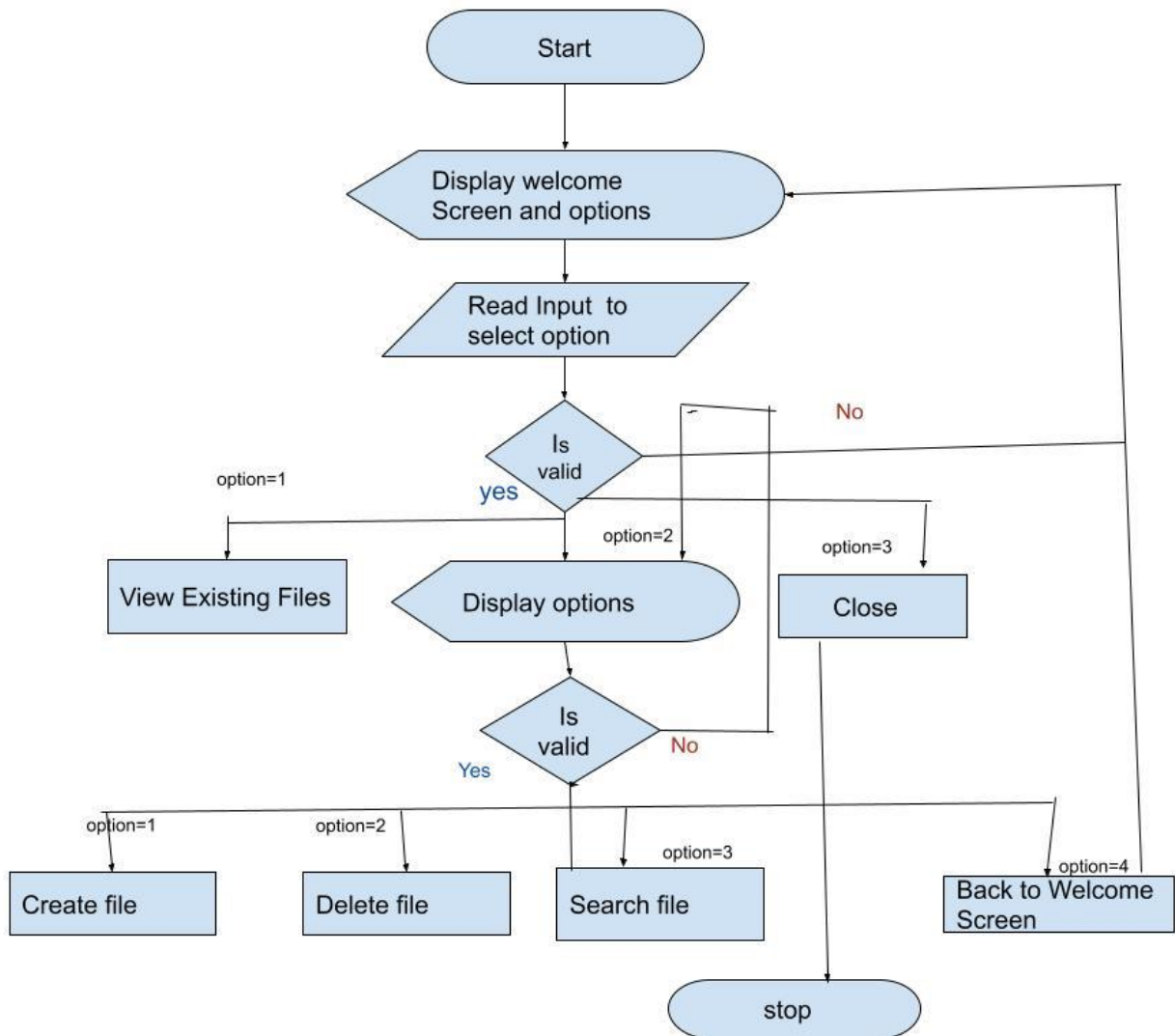
Time taken:2 hours

Third Commit done



Flowchart

Flowchart of LockedMe.com



Conclusion:

The prototyped application LockedMe.com is developed and tested as per the Product backlog. It can be enhanced further by making it a GUI application and working on improving its efficiency in terms of time and memory.
