Specification Document

Project: LockedMe.com- Virtual Key for Repositories

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**1.Overview**

LockedMe.com is a prototype Application that allows a user to execute File Handling Operations like display, add, delete, search by accepting user input through a command line Interface.

**2.Sprint Plan**

**Duration**:2 weeks

**Type**: Scrum

**Each Sprint Duration**:1 week

**Sprint 1:**

As a user, I want to be able to view the Welcome Screen which displays the below options:

* 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

1. The first option should return the current file names in ascending order.
2. The second option should display the details of the user interface such as options displaying the following:
3. Add a file to the existing directory list.
4. Delete a user specified file from the existing directory list.

1. Search a user specified file from the main directory.
2. Option to navigate back to the main context
3. There should be a third option to close the application

**Sprint 2:**

Add the functionality to each menu options as below:

1. Display the file names in ascending order.

2. Show another sub menu as below and implement the below functionality.

a. Add a user specified file to the existing directory

Take the filename as user input and add the file to an existing directory which is hardcoded. You can ignore the case sensitivity of the file names.

b. Delete a user specified file from the existing directory.

Take the filename as user input and add case sensitivity on the

filename to ensure that the right file is deleted from the directory list.

Return a message if FNF (File Not Found).

c. Search a user specified file from the main directory.

You can add case sensitivity on the filename to retrieve the correct file.

Display the result upon successful operation

Display the result upon unsuccessful operation

d. Option to go back to the main menu

3.Exit the application or program

**3.Flowchart :**

Main Menu

Enter user Input

2.Business Level Operations

1.Display the filename in ascending order

3.Exit the application

1.Add file

2.Delete file

3.Search file

4.Go back to the Main Menu

Switch case: Input value

Switch case: Input Value

Case:1

Case:3

Case:2

True

True

True

Case:1

Case:2

Case:3

Case:4

True

True





Sub Menu

Enter User Input

False

False

Program terminated successfully

False

False

False

**4.Technical details of the project:**

Below is the list of java files written as part of this project:

1.**LockedMeDemo.java** – This is the file which contains the main method. Logic to Display the Welcome Screen based on user Input is written here.

2.**FileOperationsImpl.java** – This file implements the FileOperationsInterface.java.The methods displayFileNames(), addFile(),deleteFile(),searchFiles() are overridden in this class and the implementation of these methods is written here.

3.**FileOperationsInterface.java** – This is an Interface class that defines the abstract methods displayFileNames(), addFile(),deleteFile(),searchFiles().

**Assumptions** : For running this project , I have assumed the “main” folder to be existed in the path “src/main” where all the files will be added ,deleted ,searched and displayed.

The Core Java concepts used are Abstarction,Exception Handling,Collections,Sorting using Collections.

**5.GitHub Repository Link:**

**https://github.com/Bhakti-Patel/Project1\_LockedMe.com-Virtual-Key-Repositories.git**

**6.Future Release:**

* Instead of using command line interface we can use frontend technology to display the welcome screen and select the file operations from the UI.
* For file add operation ,after creating a new file we can add the option of asking the user if he/she wants to write to that file.
* For file search operation ,instead of asking the user to input the entire filename we can list all the files with the partially entered input value.