

Write-up for LockedMe Project

LockedMe: Virtual Key for Repositories

Simple Java Console based program to allows user to input menu options for

- Displaying File/Folder structure.
- Search for File/Folder recursively.
- Add/Delete File/Folder recursively.

View project locally

To try out the project in your local machine:

- clone this repository using `git clone`
- Open the folder from Eclipse/IntelliJ
- Open LockedMeMain.java and Run

Component Hierarchy

File	Description
Main.java	This component contains the Main method. It's the entry point of the program.
Menus.java	This component contains methods for displaying menu options.
OperationsDAO.java	This component defines all the operations required for displaying, searching, deleting and adding files/folder. This component contains methods for handling different options from user input and calls respective methods from FileOperations.

To track below deliverables -

Specification document - Product's capabilities, appearance, and user interactions

Java concepts being used in the project

Data Structures where sorting and searching techniques are used.

Generic features and operations available:

- 1) Retrieving the file names in an ascending order
- 2) Business-level operations:
 - Option to add a user specified file to the application
 - Option to delete a user specified file from the application
 - Option to search a user specified file from the application
 - Navigation option to close the current execution context and return to the main context

3) Option to close the application

Code designed to display the welcome screen. It displays:

- 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
- The first option returns the current file names in ascending order. The root directory can be either empty or contain few files or folders in it.
- The second option returns the details of the user interface such as options displaying the following:
 - Add a file to the existing directory list
 - Delete a user specified file from the existing directory list
 - Search a user specified file from the main directory
 - Option to navigate back to the main context
- There is a third option to close the application.

Implemented the concepts such as exceptions, collections, and sorting techniques for source code optimization and increased performance

A simple file handling project in java.

Using the application

Welcome screen displays the application name, developer details, directory information and main menu.

```
*****
*      DEVELOPED BY      Pranav Pandey      *
*****
*      LOCKEDME.COM      *
*****
*  Directory: C:\Users\Consultadd\Main  *
*****

=====
|          MAIN MENU          |
=====
| Select any one of the following: |
|  1 - List All Files           |
|  2 - More Options             |
|  3 - Exit                     |
|                               |
=====
Enter your choice :
```

The user has to select option from the user interface shown.

1. The first option list the current file names in ascending order. User can enter the desired directory name in Main.java.

2. The second option returns the details of the user interface with following options.

- a. Add a file to the existing directory list.
- b. Delete a user specified from the existing directory list.
- c. Search a user specified file from the main directory.
- d. option to navigate back to main menu.

Technologies

Technologies used in project:

- java 8
- Eclipse