**Virtual Key for Your Repositories**

Course-end Project 1

* This application was finalized in the seven steps.
* First of all Code is written to display the welcome screen. It displays:
  + - Application name and the developer name.
    - 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.
* Then the code was written for the first option to retrieve the current file names in the ascending order.
* Then the code was written for the second option in four steps that return 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
      * It return a message if FNF (File not found)
    - Search a user specified file from the main directory
      * It display the result upon successful operation
      * It also display the result upon unsuccessful operation
    - Option to navigate back to the main context
* Then the code was written for the third option to close the application.
* Application Implement the concepts such as exceptions, collections, and searching techniques for source code optimization and increased performance

**I have used:**

* Eclipse 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
* Search and Sort techniques: Linear search is used and file names are displayed on console in sorted manner.

**Conclusion:**

* All steps are passed to GitHub repository:

<https://github.com/hirahul0011/course1_VirtualKeyforYourRepositories/commits/master>

* + Project and developer details
    - Project: Virtual Key for Your Repositories (LockedMe)
    - Developer: Rahul Sharma
  + Core concepts used in the project : Scanner, Switch-Case, Collections, Exceptions, File and Directory Handling Methods and Linear Searching techniques
  + Conclusions on enhancing the application and defining the USPs (Unique Selling Points)
* Application is not closing, exiting, or throwing an exception if the user specifies an invalid input.
* Application takes the inputs from the user and response accordingly, this way it runs dynamically.
* One separate interface is used for the second option in the main menu and user can move conveniently from outer to inner interface and vice versa.
  + Algorithms and flowcharts of the application

Application Opens

File Exists/File Deleted

File doesn’t Exists/ Message Displayed

File Exists/ Message Displayed

File doesn’t Exists/ Message Displayed

Delete the specified file from directory

Search the specified file from directory

Create a new file in the directory

Manage the files in the Directory

Return to the main menu

Close the Application

Display the Files in the Directory