**Project Name**:Locked Me Application

**Developer**: Saivinay Koneru

**Sprint Planning**:

Product Backlog:

1. Display home page & developer details.
2. Display home page should contain user interface with can display below 3 options and able to collect input from Console using a welcome page class

* To show all existing files in ascending order
* To add/delete/search files
* To close Application.

1. In welcome page class which able to perform ascending order & also able to direct home page.
2. Create code for close application code & call that method in home page.
3. In welcome page class also create option to display below 3 options, able to collect input from console & method to recall this welcome page class.

* To add
* To delete
* To Search

1. Create java class for each Add, Delete & search option to perform.

Sprint 1:

1. Create a flow chart for application.
2. Create a Git hub account & repository.
3. Display home page & developer details
4. Create class home page & print developer details

4. Display home page should contain user interface 3 options and able to collect input from Console.

1. Create a class welcome page class which can display options for user.
2. Create Input collector class which should contain methods for string & integer value from console.
3. In Home page should call welcome page, display welcome page options & collect input from console from using Input collector integer method.

Sprint 2:

1. In welcome page class which able to perform ascending order & also able to direct home page.
2. Create a class having ascending order code.
3. In welcome options class call this method using switch case.
4. Create Add, Delete, Search, return Main Memu options using switch case in option selection
5. Create 3 individual class to perform Add, Delete, Search Operations.
6. Display options, collect input using switch case call these classes & post direct to these option selection and Last option in switch case should return to welcome page options.

Sprint 3:

1. Testing the written program.
2. Test the program using test cases & collect those screenshots with cases.
3. Push the code into Git hub
4. Documentation the entire process.

Flow Chart & Algorithm:

A

1. Display Application Name & User Details.
2. Display applications options

User Input

Switch case

To Stop

System.exit(0) in Switch case

2.Display options:

----------------------

1.Add

2.Delete

3. Sort

4. Go to Main Menu

1.Display file in

Ascending Order

3. STOP

1. Create new File object with root directory path
2. 2.Create an array of type File
3. Read all files from the directory to the array using listFiles()
4. Use sort function of arrays
5. Display the files using Println

B

A

User Input

Switch  
Case

A

1. Add

3. Search

2. Delete

B

B

B

For Search:

1. Prompt the user to enter file name to be searched
2. Convert the user input to File object
3. Use try block to search the file using exists()
4. Print success message if it exists else print file does not exist
5. Catch IOException

For Delete:

1. Prompt the user to enter file name to be deleted
2. Convert the user input to File object
3. Use try block to delete the file using delete()
4. Print success message if deleted else catch NoSuchFileException
5. Catch IOException

For Add:

1. Prompt the user to enter file name to be created
2. Convert the user input to File object
3. Use try block to create the new file using createNewFile()
4. Print success message
5. Catch IOException

Core Java Concepts used:

1. Inheritance -- for using super class method in subclass directly.
2. Switch case – for selecting options.
3. Scanner—for getting input from console using default input system.in
4. Encapsulation- used getter & setter method for better code reusability.
5. IO stream File class- for creating, deleting, searching & sorting file type objects.
6. If-else condition- is used for getting conformation regarding file operations.
7. For each, arrays & sort are used to get file output in ascending order.

Git Hub Repository Link: <https://github.com/Saivinay08/Phase-1-LockedMeProject>

Conclusion:

Developed application is very user-friendly & able to perform File handling below operations.

* Using Application we can Add, Delete, Search files.
* We can able to sort existing files.
* This application has well defined flow from starting till existing of application.

Thank You