LockedMe.com (Sprint work and Project Specification)

Version History:

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Purpose	Scrum details and specifications of the application
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1. Modules in the project

- 2. Display all the files.
- 3. Add a new file.
- 4. Delete a file.
- 5. Search a file.

2. Sprint wise work

Sprint number	Modules
1	Display all the files Add a new file
2	Delete a file Search a file
3	Close application Testing Deployment(Creating a jar file)

Display all the files: This module will return all the file names present in the directory.

Add a new file: This module will create and append content to the file.

Delete a file: This module will delete the file name specified if exists.

Search a file: This module will search the file from the folder.

3. Project GitHub Link

Repository Name	LockedMe
GitHub Link	https://github.com/Jaydeep-K- Mandal/LockedMe

4. Cored Java Concepts Used

- Working with files
- Naming Standards
- Modularity
- Object Oriented Programming
- Collections
- Control structures
- Data Structures

5. Project Code

Folder Structure

```
✓ 

✓ src

✓ 

✓ com

✓ 

Iockedme

FileManager.java

LockedMe.java
```

FileManager.java

```
package com.lockedme;
import java.io.File;
import java.io.FileWriter;
import java.util.ArrayList;
import java.util.List;
public class FileManager
       * This method will return the file names from the folder
       * @param folderpath
       * @return ArrayList
      public static List<String> getAllFiles(String folderpath)
             //Creating file object
             File folder = new File(folderpath);
             //Getting all the files into file array
             File[] listOfFiles = folder.listFiles();
             //Declare a list to store file names
             List<String> fileNames = new ArrayList<String>();
             //Getting file names from array of files
             for(File f : listOfFiles)
                    fileNames.add(f.getName());
             //return the list of file names
             return fileNames;
      }
       * This method will create and append content to the file specified
       * @param folderpath
       * @param fileName
       * @param content
       * @return boolean
       */
      public static boolean createAndWriteToFile(String folderpath, String
fileName, List<String> content)
      {
             try
             {
```

```
//Creating file and file writer object
             File file = new File(folderpath, fileName);
             FileWriter fwrite = new FileWriter(file);
             //Writing to file
             for(String s : content)
                    fwrite.write(s+"\n");
             fwrite.close();
             return true;
      catch(Exception ex)
             return false;
}
* This method will delete the file name specified if exists
* @param folderpath
 * @param fileName
 * @return boolean
public static boolean deleteFile(String folderpath, String fileName)
{
      //Creating file object
      File file = new File(folderpath+"\\"+fileName);
      try
      {
             //Deleting file
             if(file.delete())
                    return true;
             else
                    return false;
      catch(Exception ex)
      {
             return false;
      }
}
 * This method will search the file from the folder
* @param folderpath
 * @param fileName
 * @return boolean
public static boolean searchFile(String folderpath, String fileName)
      //Creating file object
      File file = new File(folderpath+"\\"+fileName);
      //Search condition
      if(file.exists())
             return true;
      else
             return false;
}
```

```
LockedMe.java
package com.lockedme;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Scanner;
public class LockedMe
      private static Scanner scan = new Scanner(System.in);
      private static final String FOLDERPATH = "C:\\Users\\Jay
Deep\\Desktop\\Cohort2\\Eclipse\\src\\com\\lockedme";
      public static void main(String[] args)
             //Variable declaration
             int proceed = 1;
             int choice = 0;
             do
             {
                    welcomeScreen();
                    try
                    //Read choice from user
                    System.out.println("Please enter your choice:");
                    choice = Integer.parseInt(scan.nextLine());
                    catch(Exception e)
                          System.out.println("Please enter valid choice between
integer 1 to 5.\n");
                          continue;
                    switch(choice)
                          case 1 : getAllFileNames();
                                              break;
                          case 2 : addFile();
                                              break:
                          case 3 : deleteFile();
                                              break;
                          case 4 : searchFile();
                                              break;
                          case 5 : System.out.println("Thank you for using the
application.");
                                              System.exit(0);
                                              break;
                          default : System.out.println("Invalid Option. Please
enter correct choice between 1 to 5.");
             }while(proceed != 0);
      }
```

```
public static void welcomeScreen()
System.out.println("\t\t
                               LockedMe.com");
      System.out.println("\t\t Jaydeep Kumar Mandal");
System.out.println("1. Display all the files");
System.out.println("2. Add new file");
System.out.println("3. Delete a file");
System.out.println("4. Search a file");
      System.out.println("5. Exit\n");
public static void getAllFileNames()
      //Variable declaration
      List<String> fileNames = FileManager.getAllFiles(FOLDERPATH);
      //Edge condition
      if(fileNames.size() == 0)
            System.out.println("No files in the directory.\n");
      else
            System.out.println("Below is the file list:\n");
      //Sorting file names in ascending order
      Collections.sort(fileNames);
      //Print output to console
      for(String fileName : fileNames)
            System.out.println(fileName);
      System.out.println();
}
public static void addFile()
      //Variable declaration
      String fileName;
      int linesCount=0;
      boolean isAdded;
      List<String> content = new ArrayList<String>();
      //Read file name from user
      System.out.println("Enter file name: ");
      fileName = scan.nextLine();
      try
      {
            //Read number of lines from user
            System.out.println("Enter number of lines:");
            linesCount = Integer.parseInt(scan.nextLine());
      catch(Exception ex)
```

```
{
                    System.out.println("Please enter only integer values. To add
content to the file.\n");
                    isAdded=false;
             //Read lines from user
             for(int i = 1; i <= linesCount; i++)</pre>
                    System.out.println("Enter line "+i);
                    content.add(scan.nextLine());
             //Save content to file
             isAdded = FileManager.createAndWriteToFile(FOLDERPATH, fileName,
content);
             //Print output to console
             if(isAdded)
                    System.out.println("File added successfully.\n");
             else
                    System.out.println("Error occured. Please try again.\n");
      }
      public static void deleteFile()
             //Variable declaration
             String fileName;
             boolean isDeleted;
             //Read file name from user
             System.out.println("Enter file name to be deleted: ");
             fileName = scan.nextLine();
             //Check for deletion
             isDeleted = FileManager.deleteFile(FOLDERPATH, fileName);
             //Print output to console
             if(isDeleted)
                    System.out.println("File deleted successfully.\n");
             else
                    System.out.println("File not found or some access
issue.\n");
      public static void searchFile()
             //Variable declaration
             String fileName;
             boolean isFound;
             //Read file name from user
             System.out.println("Enter file name to be searched: ");
             fileName = scan.nextLine();
             //Check for search result
             isFound = FileManager.searchFile(FOLDERPATH, fileName);
             //Print output to console
```