LockedMe.com (Project Source Code)

Version History:

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Purpose	Source Code of the application
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Version	1.0

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1. Project GitHub Link

Repository Name	LockedMe
GitHub Link	https://github.com/Niks4u2/LockedMe

2. Folder Structure

- ✓

 LockedMeProject
 - > A JRE System Library [JavaSE-16]
 - - √

 ⊕ com.lockedme
 - > 🛭 FileManager.java
 - > 🗓 LockedMe.java

3. 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;
}
```

4. 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\\golun\\Desktop\\MyPhaseOneProject\\LockedMeFiles";
       public static void main(String[] args)
              //Variable declaration
              int proceed = 1;
              int choice;
              do
              {
                     welcomeScreen();
                     //Read choice from user
                     System.out.println("Please enter your choice:");
                     choice = Integer.parseInt(scan.nextLine());
                     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("**********************************);
              System.out.println("\t\tLockedMe.com");
              System.out.println("\t\t Nikhil Jain");
              System.out.println("***********
              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");
              System.out.println("***********************************);
       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
              if(isFound)
                      System.out.println("File is present in the directory.\n");
              else
                      System.out.println("File is not present in the directory.\n");
       }
}
```