# 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/Niks4u2/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**

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  LockedMeProject
  - ⇒ Marcon JRE System Library [JavaSE-16]
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      ⊕ com.lockedme
      - > I FileManager.java
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#### 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\\golun\\Desktop\\MyPhaseOneProject\\LockedMeFiles";
       public static void main(String[] args)
              //Variable declaration
              int proceed = 1;
              int choice;
              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("********************************);
              System.out.println("\t\tLockedMe.com");
              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);
              // {\tt 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");
       }
}
```