# Project - Virtual Key for your Repositories

#### Source Code -

##### [File 1 - LockedMeWelcomeScreen.java](#_File 1- LockedMeWelcomeScreen.java)

##### [File 2- LockedMeMain.java](#_File 2- LockedMeMain.java_1)

##### [File 3- LockedMeInputHandling.java](#_File 3- LockedMeInputHandling.java_1)

##### [File 4 - LockedMeFileHandling.java](#_File 4 - LockedMeFileHandling.java_1)

##### *File 1- LockedMeWelcomeScreen.java*

**It will basically Display the Welcome Screen and Create the Folder Directory for storing files. This file contains methods to display Main Menu and Sub Menu as well.**

package lockedMePack;  
  
public class LockedMeWelcomeScreen {  
   
 public static void printWelcomeScreen(String applicationName, String developerName){  
   
 System.*out*.println("--------------------------------Welcome to "+applicationName+"!--------------------------------");  
   
 System.*out*.println("----------------My Name is "+developerName+", the developer of this application---------------\n");  
  
 LockedMeFileHandling.*createMainFolderIfNotPresent*("fileStoragePackage");  
 }  
   
 public static void mainMenu(){  
 System.*out*.println("\nMain Menu- \n");  
   
 System.*out*.println("1. Retrieve all the existing files from a directory.\n"+  
 "2. Add, Delete or Search the files.\n"+  
 "3. Exit from the application.\n");  
   
 System.*out*.print("Enter the choice from the above operations here - ");  
 }  
  
 public static void subMenu(){  
 System.*out*.println("\nSub Menu - \n");  
  
 System.*out*.println("1. Add files in a directory.\n"+  
 "2. Delete files from a directory.\n"+  
 "3. Search files from a directory.\n"+  
 "4. Back to Main Menu.\n");  
  
 System.*out*.print("Enter the choice from the above operations here - ");  
 }  
}

##### *File 2- LockedMeMain.java*

**This file contains main method i.e it will be called first and therefore will call the “printWelcomeScreen” inorder to display the Welcome Screen passing the Application Name and Developer Details to the method and also call the method Main Menu**

package lockedMePack;  
  
public class LockedMeMain {  
  
 public static void main(String[] args) {  
 *// TODO Auto-generated method stub* LockedMeWelcomeScreen.*printWelcomeScreen*("LockedMe.com", "Naman Uppal");  
  
 LockedMeInputHandling.*firstMenuHandleChoices*();  
 }  
}

##### *File 3- LockedMeInputHandling.java*

**This file contains methods that handles the choice entered by the user in the Main and Sub Menu.**

**Code -**

package lockedMePack;  
  
import java.util.Scanner;  
  
public class LockedMeInputHandling {  
  
 *//This method will handle choices made in the Main Menu* public static void firstMenuHandleChoices(){  
 LockedMeWelcomeScreen.*mainMenu*();  
 try{  
 Scanner scanner = new Scanner(System.*in*);  
 int choiceEntered = scanner.nextInt();  
 switch(choiceEntered){  
 case 1:  
 LockedMeFileHandling.*displayAllFiles*();  
 *firstMenuHandleChoices*();  
 break;  
 case 2:  
 *secondMenuHandleChoices*();  
 break;  
 case 3:  
 System.*out*.println("\nApplication Closed Successfully.");  
 System.*exit*(0);  
 default :  
 *printErrorMessage*();  
 *firstMenuHandleChoices*();  
 }  
 } catch (Exception e){  
 *printErrorMessage*();  
 *firstMenuHandleChoices*();  
 }  
 }  
  
 *//This method will handle choices made in the Sub Menu* public static void secondMenuHandleChoices(){  
 LockedMeWelcomeScreen.*subMenu*();  
 try{  
 Scanner scanner = new Scanner(System.*in*);  
 int choiceEntered = scanner.nextInt();  
 switch(choiceEntered){  
 case 1:  
 System.*out*.println("\nPlease Enter the name of the File you want to add -");  
 String addingFileName = scanner.next();  
 LockedMeFileHandling.*addFiles*(addingFileName);  
 break;  
 case 2:  
 System.*out*.println("\nPlease Enter the name of the File you want to delete -");  
 String deleteFileName = scanner.next();  
 LockedMeFileHandling.*deleteFiles*(deleteFileName);  
 break;  
 case 3:  
 System.*out*.println("\nPlease Enter the name of the File you want to search -");  
 String searchFileName = scanner.next();  
 LockedMeFileHandling.*searchFiles*(searchFileName);  
 break;  
 case 4:  
 *firstMenuHandleChoices*();  
 default :  
 *printErrorMessage*();  
 }  
 *secondMenuHandleChoices*();  
 } catch (Exception e){  
 *printErrorMessage*();  
 *secondMenuHandleChoices*();  
 }  
 }  
  
 public static void printErrorMessage(){  
 System.*out*.println("\nPlease enter only 1,2 or 3.");  
 }  
}

##### *File 4 - LockedMeFileHandling.java*

**This file contains methods that handles the operations of the application such as retrieve files, add files, delete files, search files.**

**Code -**

package lockedMePack;  
  
import java.io.File;  
import java.io.IOException;  
import java.util.Arrays;  
  
public class LockedMeFileHandling {  
  
 *//Constants for fileStoragePackage directory inside Project* public static String *getLocalDirectory* = System.*getProperty*("user.dir");  
 public static String *setMainDirectory* = *getLocalDirectory*+File.*separator*+"fileStoragePackage";  
 private static File *file*;  
  
 *//Creating fileStoragePackage directory if not present in the Project directory* public static void createMainFolderIfNotPresent(String folderName) {  
 *file* = new File(folderName);  
 if (!*file*.exists()) {  
 *file*.mkdirs();  
 }  
 }  
  
 *//Method to display all the files present inside fileStoragePackage package* public static void displayAllFiles(){  
 *file* = new File(*setMainDirectory*);  
 if (*file*.list().length == 0) System.*out*.println("\nThe Folder is empty. Please add files in the directory \n"+*setMainDirectory*);  
 else{  
 System.*out*.println("\nFiles present in this directory are -\n");  
 String[] allFiles = *file*.list();  
 Arrays.*sort*(allFiles);  
 for (String eachFile: allFiles) {  
 System.*out*.println("-> "+eachFile);  
 }  
 }  
 }  
  
 *//Method to add the files in inside fileStoragePackage package* public static void addFiles(String fileName) throws IOException {  
 String filePath = *setMainDirectory* +File.*separator*+fileName;  
 File newFile = new File(filePath);  
 String[] filesList = *file*.list();  
 for (String existingFile : filesList) {  
 if (fileName.equalsIgnoreCase(existingFile)){  
 System.*out*.println("-> File Already exists. Returning back to Sub Menu");  
 return;  
 }  
 }  
 newFile.createNewFile();  
 System.*out*.println("-> "+fileName+" has been created!");  
 }  
  
 *//Method to delete the files in inside fileStoragePackage package* public static void deleteFiles(String deleteFile){  
 File filepath = new File(*setMainDirectory* +File.*separator*+deleteFile);  
 *file* = new File(*setMainDirectory*);  
 String[] existingFiles = *file*.list();  
 for (String existingFile: existingFiles) {  
 if(existingFile.equals(deleteFile)){  
 filepath.delete();  
 System.*out*.println("\n-> File "+deleteFile+" is deleted from the directory \n"+*setMainDirectory*);  
 return;  
 }  
 }  
 System.*out*.println("\n-> File Not Found. Returning back to Sub Menu");  
 }  
  
 *//Method to search the files in inside fileStoragePackage package* public static void searchFiles(String searchFile){  
 *file* = new File(*setMainDirectory*);  
 String[] existingFiles = *file*.list();  
 for (String existingFile: existingFiles) {  
 if(existingFile.equals(searchFile)){  
 System.*out*.println("\n-> "+searchFile+" file is present in the directory");  
 return;  
 }  
 }  
 System.*out*.println("\n-> "+searchFile+" file Not Found. Returning back to Sub Menu");  
 }  
}