Source code
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Github Link

https://github.com/yoonus86/Lockedme.com-project.git

Class LockedMe

```
package com.lockedmeproject;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Scanner;



public class LockedMe {
    // Location Files
    static final String location="E:\\yoonus\\phase 1 project\\LockedMeFiles";

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int start=1;
        do {
            int character ;
            character= displayMenu();

            // switch method to perform the necessary method specified by user
            switch(character) {
                case 1 : fetchTheFile();
                            break;
                case 2 : forgeFile();
                            break;
                case 3 : deleteFile();
                            break;
                case 4 : searchFile();
                            break;
                case 5 : System.exit(0);
                            break;
                default : System.out.println("Invalid options");
                            break;
            }

        }
        while(start>0);
    }
```

```java
/**
 * display application menu
 */
public static int displayMenu() {
    Scanner obj = new Scanner(System.in);
    int character;

    System.out.println("==================================================");
    System.out.println("\t\t LockedMe.com");
    System.out.println("==================================================");
    System.out.println(" ------------------Apploation menu------------------");
    System.out.println("(1)- View all files");
    System.out.println("(2)- Add file to the directory");
    System.out.println("(3)- Delete a file from the directory");
    System.out.println("(4)- Search a file in the directory");
    System.out.println("(5)- quit the aplication");
    System.out.println("Choose the option : ");
    character=Integer.parseInt(obj.nextLine());
    return character;

}
```

```java
/**
 * method that helps to get all file names
 */
public static void fetchTheFile() {
    List<String> fileNames=FileManagerRepository.retrieveAllFiles(location);

    if (fileNames.size()==0) {
        System.out.println("No such files exists");

    }
    else {
        System.out.println("------ File list------");
    }
    Collections.sort(fileNames);
    for(String f:fileNames) {
        System.out.println(f);
    }
}
```

```java
/**
 * method to add new file
 */
public static void forgeFile() {
    Scanner obj=new Scanner(System.in);
    String nameOftheFile;
    int lines;
    List<String> sentences=new ArrayList<String>();

    //Fetch the file name from the input
    System.out.println("Enter the file name : ");
    nameOftheFile=obj.nextLine();

    // specify the number of line to add to the file
    System.out.println("Enter how many lines to add to the file : ");
    lines=Integer.parseInt(obj.nextLine());

    //adding the content into teh file
    for(int i=1;i<=lines;i++) {
        System.out.println(i+ " : ");
        sentences.add(obj.nextLine());
    }
```

```java
    boolean saveTheWords=FileManagerRepository.addNewFile(location, nameOftheFile, sentences);

    if(saveTheWords) {
        System.out.println("A new file "+nameOftheFile+ " has added to the directory");
    }
    else {
        System.out.println("An error detected");
    }


}
```

```
    * this is a method to delete file
    public static void deleteFile() {
        String nameOfFile;
        Scanner obj=new Scanner(System.in);
        System.out.println("Enter the file that has to be deleted");
        nameOfFile=obj.nextLine();

        boolean toDelete=FileManagerRepository.deleteFiles(location, nameOfFile);

        if(toDelete) {
            System.out.println("The file "+nameOfFile+" has been successfully deleted");
        }
        else {
            System.out.println("there is no such files in the directory ");
        }

    }
```

```
    * method that helps to delete file
    public static void searchFile() {
        String nameOfFile;
        Scanner obj=new Scanner(System.in);
        System.out.println("Enter the file that has to be searched");
        nameOfFile=obj.nextLine();

        boolean toSearch=FileManagerRepository.searchFile(location, nameOfFile);

        if(toSearch) {
            System.out.println("The file exists in the folder");
        }
        else {
            System.out.println("there is no such files in the directory ");
        }
    }

}
```

Class FileManagerRepository

```java
package com.lockedmeproject;

import java.io.File;

public class FileManagerRepository {
    public static List<String> retrieveAllFiles(String path){
        // create a file object
        File file=new File(path);

        //Fetching all files to file array
        File[] fileList=file.listFiles() ;

        // String list to store file names created
        List<String> namesOfFiles=new ArrayList<String>();

        // Looping through file array to get the name and save to the nameOfFiles
        for(File f: fileList) {
            namesOfFiles.add(f.getName());
        }
        // return the List of file names
        return namesOfFiles;
```

```java
    }
    /**
     * Using this method we can add new files into the directory
     * @param fileName
     * @param sentence
     * @return
     */
    public static boolean addNewFile(String path, String fileName,List<String> sentence) {

        try {
            File file=new File(path,fileName);
            FileWriter writer=new FileWriter(file) ;

            for(String words:sentence) {
                writer.write("new content" +words+"\n");
            }
            writer.close();
            return true;
        }
        catch(Exception Ex) {
            return false;
        }
```

```
    }
    /**
     * Method to delete user entered files from directory
     * @param path
     * @param nameOfFile
     * @return
     */
    public static boolean deleteFiles(String path, String nameOfFile) {
        // file location
        File file = new File(path+"\\"+nameOfFile);
        // return true if file deleted successfully else false
        try {
            if(file.delete()) {
                return true;
            }
            else {
                return false;
            }
        }
        catch(Exception Ex) {
            return false;
        }
```

```
74      }
75      /**
76       * this is a method to search a file in the directory
77       * @param path
78       * @param nameOfFile
79       * @return
80       */
81      public static boolean searchFile(String path, String nameOfFile) {
82
83          //file path to search
84          File file=new File(path+"\\"+nameOfFile);
85          // checking weather the file exists or not
86          if(file.exists()) {
87              return true;
88          }
89          else {
90              return false;
91          }
92      }
93
94
95  }
96
```