Lockedme.com
(Sprint work and project specification)

Version History:

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Purpose	Sprint details and project specification
Date	08/14/2021
Version	1.0

Contents

1. Modules in the project:

1. Display all files
2. Add file
3. Delete file
4. Search file
5. Exit

2. Java technologies used:

1. Object oriented programing

2. File handling

3. Naming Standards

4. Exception Handling

5. Modularity

6. Collections

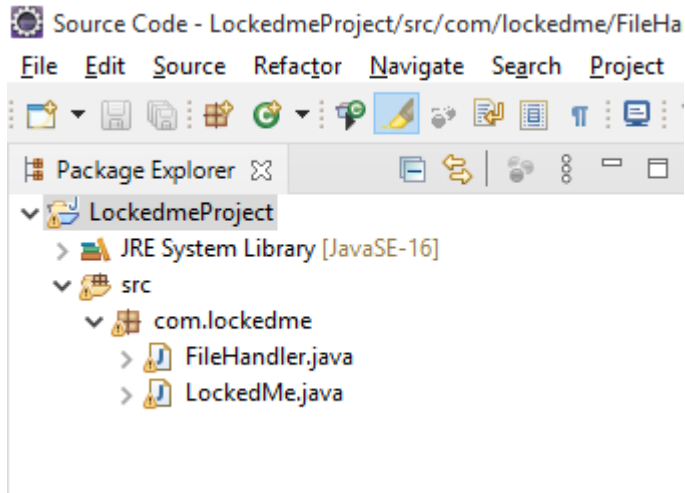7. Data Structures

8. Control structures

3. Sprint wise work:

Sprint number	Modules
1	Display all files: 　　　Display all files present in the folder. Add new files: 　　　Creating new file and adding new content to the file.
2	Delete file: 　　　Checks whether file exists in the folder and deletes it. Search file: 　　　Searches if file is present or not. Testing: 　　　Checking if all the functions are working properly or not. Deployment: 　　　Creating jar file

4. Project GITHUB Link

Repository Name:-
LockedMeProject
GITHUB link:-
https://github.com/Omkar236/LockedMeProject.git

5. Project Code:

1. Folder Structure:-

2. Filehandler.java:-

```java
package com.lockedme;

import java.io.File;
import java.io.FileWriter;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;

public class FileHandler
{
    public static List<String> getAllFiles(String folderpath)
    {
        File f1 = new File(folderpath);
        File[] listOfFiles= f1.listFiles();
        List<String> fileNames= new ArrayList<String>();

        for(File f:listOfFiles)
            fileNames.add(f.getName());

        return fileNames;

    }
```

```java
    /**
     * This file will create or append the content into the file.
     * @param folderpath
     * @param fileName
     * @param content
     * @return boolean
     */
    public static boolean createFile(String folderpath,String fileName,
List<String> content)
    {
        try
        {
            File f1=new File(folderpath,fileName);
            FileWriter fw=new FileWriter(f1);

            for(String s:content)
            {
                fw.write(s+"\n");
            }
            fw.close();

            return true;

        }
        catch(Exception Ex)
        {
            return false;
        }
    }
        /**
         * This method will delete the file name if it exists
         * @param folderpath
         * @param fileName
         * @return
         */
        public static boolean deleteFile(String folderpath,String
fileName)
        {
            File file= new File (folderpath+"\\"+fileName);
            try
            {
                if(file.delete())
                    return true;
                else
                    return false;
            }
            catch(Exception Ex)
            {
                return false;
```

```java
            }
        }

        /**
         * This method will search the file from folder.
         * @param folderpath
         * @param fileName
         * @return
         */
        public static boolean searchFile(String folderpath,String
fileName)
        {
            File file= new File (folderpath+"\\"+fileName);
            if(file.exists())
                return true;
            else
                return false;


        }
}
```

3. LockedMe.java:-

```java
package com.lockedme;

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

public class LockedMe
{
    static final String folderpath="A:\\OMKAR\\java\\Project Files";
    public static void main(String[] args)
    {
        int proceed=1;
        do
        {
            //Variable Declaration
            Scanner obj=new Scanner(System.in);
            int ch;

            //Menu
            displayMenu();
            System.out.println("Enter Your choice:");
            ch=Integer.parseInt(obj.nextLine());

            switch(ch)
```

```java
                    {
                            case 1:getAllFiles();
                            break;
                            case 2:createFiles();
                                        break;
                            case 3:deleteFile();
                                        break;
                            case 4:searchFile();
                                        break;
                            case 5:System.exit(0);
                                        break;
                            default:
                                        System.out.println("Invalid Option");
                                        break;

                    }

            }while(proceed>0);




    }

    public static void displayMenu()
    {
            //Displaying Menu

    System.out.println("*********************************************"
);
            System.out.println("\t\tLockedMe.com");

    System.out.println("*********************************************"
);

            System.out.println("1) Display all 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");

            System.out.println("----------------------------------------
-----");
    }
    public static void getAllFiles()
    {

            //Get File names
            List<String> fileNames=FileHandler.getAllFiles(folderpath);
```

```java
                if(fileNames.size()==0)
                        System.out.println("Empty Folder");
                else
                {
                        System.out.println("List of Files:");
                        for(String f:fileNames)
                                System.out.println(f);
                }
        }


        public static void createFiles()
        {
                // Variable Declaration
                Scanner obj=new Scanner(System.in);
                String fileName;
                int linesCount;
                List<String> content = new ArrayList<String>();

                //Read filename from user
                System.out.println("Enter file Name:");
                fileName=obj.nextLine();

                //Read number of lines from user
                System.out.println("Enter no of lines in file:");
                linesCount=Integer.parseInt(obj.nextLine());


                //Read lines from user
                for(int i=1;i<=linesCount;i++)
                {
                        System.out.println("Enter line "+i+":");
                        content.add(obj.nextLine());
                }

                //Save content to the file
                boolean isSaved= FileHandler.createFile(folderpath, fileName,
content);

                if(isSaved)
                        System.out.println("File and data saved succesfully.");
                else
                        System.out.println("Some error occured. Please contact
admin");

        }

        public static void deleteFile()
        {
                // Code for deleting the file
```

```java
            String fileName;
            Scanner obj=new Scanner(System.in);
            System.out.println("Enter filename to be deleted:");
            fileName=obj.nextLine();

            boolean isDeleted= FileHandler.deleteFile(folderpath,
fileName);
            if(isDeleted)
                   System.out.println("File deleted Succesfully....!");
            else
                   System.out.println("File not found.");
      }

      public static void searchFile()
      {
            // Code for searching the file
            String fileName;
            Scanner obj=new Scanner(System.in);
            System.out.println("Enter filename to be searched:");
            fileName=obj.nextLine();

            boolean isFound= FileHandler.searchFile(folderpath, fileName);
            if(isFound)
                   System.out.println("File is present in the folder....!");
            else
                   System.out.println("File not found.");
      }

}
```