

LockedMe.com

(Sprint Work & Project Specification)

Version History:

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1. PROJECT GITHUB LINK:

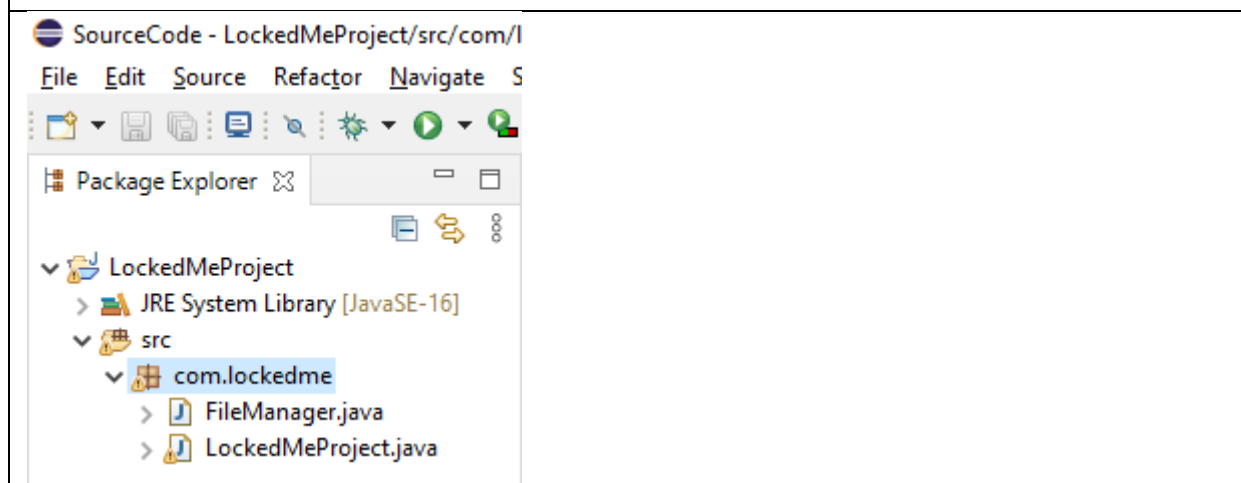
REPOSITORY NAME

Phase1Project-FSD

GITHUB LINK

<https://github.com/kumarabhishek7885/Phase1Project-FSD.git>

2. Folder Structure



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 List<String>
     */
    public static List<String> getAllFiles(String folderpath)
    {
        //Creating File Object
        File fl = new File(folderpath);

        //Getting All the Files into FileArray
        File[] listOfiles = fl.listFiles();

        //Declared a list to store file names
        List<String> fileNames = new ArrayList<String>();

        //Getting file names from array of files
        for(File f:listOfiles)
            fileNames.add(f.getName());

        //Return the List of file names
        return fileNames;
    }

    /**
     * This method will create or append content into the file specified
     * @param folderpath
     * @param fileName
     * @param content
     * @return boolean
     */
    public static boolean createFiles(String folderpath, String fileName,
    List<String> content)
    {
        try
        {
            //Creating file and file writer object
            File fl = new File(folderpath, fileName);
            FileWriter fw = new FileWriter(fl);

            //Writing to file
            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)
{
    //Adding folder path with file name and creating file object
    File file = new File(folderpath+"\\ "+fileName);

    try
    {
        //Deleting file
        if(file.delete())
            return true;
        else
            return false;
    } catch (Exception e) {
        // TODO: handle exception
        return false;
    }
}

/**
 * This method will search the file from a folder
 * @param folderpath
 * @param fileName
 * @return
 */
public static boolean searchFile(String folderpath, String fileName)
{
    //Adding folder path with file name and creating file object
    File file = new File(folderpath+"\\ "+fileName);

    //Search condition
    if(file.exists())
        return true;
    else
        return false;
}
}

```

4. LockedMeProject.java

```
package com.lockedme;

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

public class LockedMeProject
{
    //private static Scanner scan = new Scanner(System.in);
    static final String folderpath="F:\\MyPhase1Project\\LockedMeFiles";

    public static void main(String[] args)
    {
        int goahead=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 case
            switch(ch)
            {
                case 1:      getAllFiles();
                            break;

                case 2: createFiles();
                            break;

                case 3:      deleteFile();
                            break;

                case 4:      searchFile();
                            break;

                case 5: System.exit(0);

                default: System.out.println("Invalid Option");
                            break;
            }

            }while(goahead>0);
        }

        public static void displayMenu()
        {
```

```

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 Files");
System.out.println("3. Delete a File");
System.out.println("4. Search a File");
System.out.println("5. Exit");

System.out.println("_____");
}

/**
 * This method will retrieve files
 */
public static void getAllFiles()
{
    //getting the file names
    List<String> fileNames = FileManager.getAllFiles(folderpath);

    //Edge Condition
    if(fileNames.size()==0)
        System.out.println("No Files in the Directory");
    else
        System.out.println("FILES LIST IS BELOW:\n");

    //Sorting file names in ascending order
    List<String> sortedList = new ArrayList<String>();

    for(String str:fileNames)
        sortedList.add(str.toLowerCase());
        Collections.sort(sortedList);

    //Printing O/P to console
    for(String f:sortedList)
        System.out.println(f);
        System.out.println();
}

/**
 * this method will Create files
 */
public static void createFiles()
{
    //Variables declaration
    Scanner obj = new Scanner(System.in);
    String fileName;
    int linesCount;
    List<String> content = new ArrayList<String>();

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

    //Reading number of lines from user

```

```

file:");
        System.out.println("Enter How Many lines in the
        linesCount = Integer.parseInt(obj.nextLine());

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

        //Saving the content into the file
        boolean isSaved= FileManager.createFiles(folderpath,
fileName, content);

        if(isSaved)
            System.out.println("File and Data Saved
Successfully");
        else
            System.out.println("Some error occured. please
contact Kumar.abhishek7885@gmail.com ");
    }

    /**
     * This method will Delete files
     */
    public static void deleteFile()
    {
        //code for deleting a file
        String fileName;
        Scanner obj = new Scanner(System.in);
        System.out.println("Enter File Name to be Deleted:");
        fileName=obj.nextLine();

        //Deleting file
        boolean isDeleted = FileManager.deleteFile(folderpath,
fileName);

        if(isDeleted)
            System.out.println("File Deleted successfully");
        else
            System.out.println("Either file not there or some
access issues");
    }

    /**
     * This method will search files
     */
    public static void searchFile()
    {
        //code for Searching a file
        String fileName;
        Scanner obj = new Scanner(System.in);
        System.out.println("Enter File Name to be searched:");
        fileName=obj.nextLine();

        //Searching file
        boolean isFound = FileManager.searchFile(folderpath, fileName);

        if(isFound)

```



```
        System.out.println("File is present in the folder");
    else
        System.out.println("File is not present in the folder");
    }
}
```