

LockedMe

Project Specifications and Sprint works

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| Purpose | Screenshot of the Application |
| Date | 11 th August 2021 |
| Version | 1.0 |

Modules in the Project

1. Display all Files
2. Add a file
3. Delete a file
4. Search a file

Sprint Work

| Sprint Number | Modules |
|---------------|-------------------------------------------------------------------------------|
| 1 | Display All Files Add a new File |
| 2 | Delete a file Search a file Testing Deployment (Creating a jar file) |

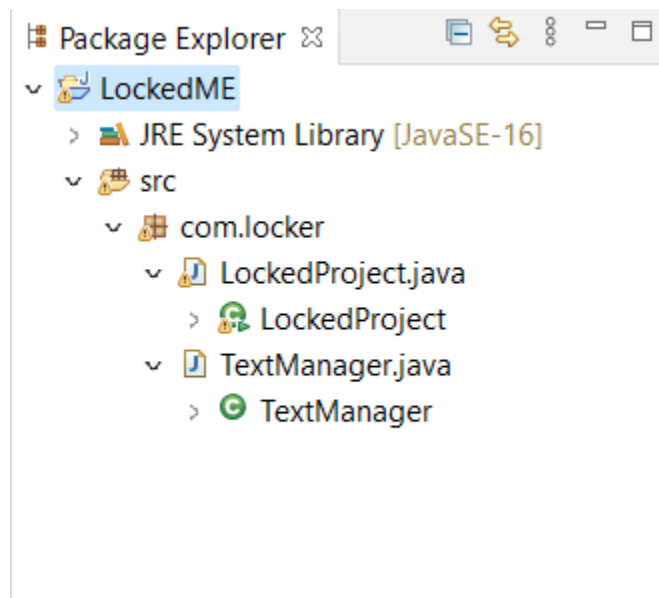
Java Technologies used:

- Exception Handling.
- Working with Files
- Naming Standards
- Modularity
- Oops
- Collections
- Control Structure
- Data Structures

Project link in GitHub:

Project Code:

Folder Structure:



LockedMe code :

```
package com.locker;  
  
import java.util.ArrayList;  
import java.util.List;  
import java.util.Scanner;
```

```

public class LockedProject
{
    static final String folderpath="E:\\MyPhaseProject1\\Files";
    public static void main(String[] args)
    {
        int proceed =1;

        do {
            //Variable declaration

            int ch;

            //Display Menu
            ch=displayMenu();

            switch(ch)
            {
                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");
            }

        }while (proceed>0);

    }

    public static int displayMenu()
    {
        Scanner obj = new Scanner(System.in);
        //Menu
        int ch;
        System.out.println("*****$$$$$$$$$$$$$$$$$*****");
        System.out.println("\tWelcome to LockedME");
        System.out.println("*****$$$$$$$$$$$$$$$$$*****");
        System.out.println("1. Display all files");
        System.out.println("2. Add a new file");
        System.out.println("3. Delete a file");
        System.out.println("4. Search a file");
        System.out.println("5. Exit");
        System.out.println("*****");
        System.out.println("Enter your choice : ");
        ch=Integer.parseInt(obj.nextLine());
        //obj.close();
        return ch;
    }
    /**
     * This Method is used to get all files from the folder path
     */
}

```

```

public static void getAllFiles()
{
    // Get file name
    List<String> fileNames = TextManager.getAllFiles(folderpath);
    for(String f:fileNames)
        System.out.println(f);
}

/**
 * This Method is used to add a file
 */
public static void createFiles()
{
    //Add file Code

    //Variable declaration
    Scanner obj = new Scanner(System.in);
    String fileName;
    int linesCount;
    List<String> content = new ArrayList<String>();

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

    //Read number of lines from user
    System.out.println("Enter how many lines in the 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 the content into the file
    boolean isSaved = TextManager.createFiles(folderpath,
fileName, content);

    if(isSaved)
        System.out.println("File and data saved
succesfully");
    else
        System.out.println("Some error occured, Please
contact admin@zadesrujan");
    //close Scanner object
    //obj.close();
}

/**
 * This Method is used to delete a file
 */
public static void deleteFile()
{

```

```

        //Delete a file

        //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();

        boolean isDeleted = TextManager.deleteFile(folderpath, fileName);

        if(isDeleted)
            System.out.println("File deleted Successfully");
        else
            System.out.println("Either file not there or some access
issued");
    }

    /**
     * This Method is used to search a file
     */
    public static void searchFile()
    {
        //Search a file

        //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();

        boolean isSearch = TextManager.searchFile(folderpath,
fileName);

        if(isSearch)
            System.out.println("File detected Successfully");
        else
            System.out.println("File not detected");
    }
}

```

TextManager Code :

```

package com.locker;

import java.io.File;
import java.io.FileWriter;

```

```

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

public class TextManager
{
    /**
     * 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 f1 = new File(folderpath);

        //Getting all files into FileArray
        File[] listOfFile = f1.listFiles();

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

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

        //return list
        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 {
            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)
    {
        //adding folderpath with filename and creating file object
        File file = new File(folderpath+"\\ "+fileName);

        try
        {
            if(file.delete())
                return true;
            else
                return false;
        }
        catch(Exception Ex)
        {
            return false;
        }
    }
}

/**
 * This Method will search the file name if exists
 * @param folderpath
 * @param fileName
 * @return
 */
public static boolean searchFile(String folderpath, String fileName)
{
    //adding folderpath with filename and creating file object
    File file = new File(folderpath+"\\ "+fileName);

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

}

```

