LockedME.com

Sprint work and project specification

Version History

Author	Meenakshi Yadav
Purpose	Sprint work and project specification
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- Create and add file
- Delete file
- Search file

2. Java Technologies used

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- Objected Oriented Programming
- Modularity
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- Exceptional Handling
- Collections
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3. Sprint wise work

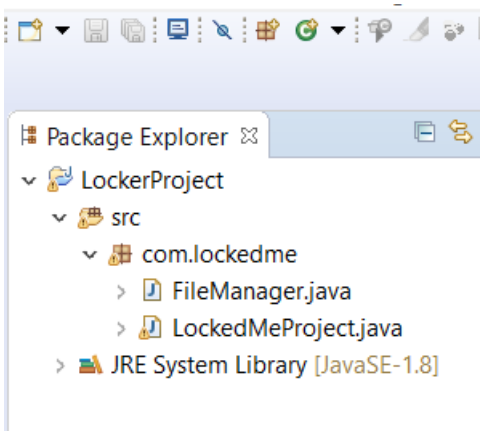
Sprint Number	Modules
1	Display all files Add new file
2	Delete file Search file
3	Testing Deployment

4. Project link in Github:

Repository Name	LockedME
Github Link	https://github.com/Meenakshi-Yadav/LockedME.git

5. Project codes:

Folder Struture



FileManager.java

```
package com.lockedme;
import java.io.File;
import java.io.FileWriter;
import java.util.*;
import java.util.stream.Collectors;

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[] listOfFiles=fl.listFiles();

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

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

		//return the list in sorted order
		List<String> sortedList = fileNames.stream().sorted().collect(Collectors.toList());
		return sortedList;
	}
```

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

		for(String s:content)
		{
			fw.write(s+"\n");
		}
		fw.close();
		return true;
	}
	catch(Exception Ex)
	{
		return false;
	}

}

/**
 * This method will delete the specified file
 * @param folderpath
 * @param fileName
 * @return boolean
 */

public static boolean deleteFile(String folderpath, String fileName)
{
	//adding folderpath with file name
	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 specified by the user
	 * @param folderpath
	 * @param fileName
	 * @return boolean
	 */
	public static boolean searchFile(String folderpath,String fileName)
	{
		//adding folderpath with file name and creating file object
		File file=new File(folderpath+"\\"+fileName);
		 try
		 {
			if(file.exists())
				return true;
			else
				return false;
		 }
		 catch(Exception Ex)
		 {
			return false;
		 }
	}

}
```

LockedMeProject.java

```
package com.lockedme;
import java.util.*;
import java.util.List;

public class LockedMeProject
{
	static final String
folderpath="C:\\Users\\Lenovo\\Desktop\\SimplilearnDocs\\Phase1Project\\LockedMeFiles";
	public static void main(String[] args)
	{
		int proceed=1;
		do
		{
			displayMenu();
			//Variable declaration
			Scanner obj= new Scanner(System.in);
			int ch;

			System.out.println("Enter your choice: ");
			ch=Integer.parseInt(obj.nextLine());
			switch(ch){
			case(1):
				getAllFiles();
				break;
			case(2):
```

```
                        createFile();
                        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()
{
        System.out.println("*************************************************");
        System.out.println("\tWelcome to LockedME.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=FileManager.getAllFiles(folderpath);

        for(String f:fileNames)
        {
                System.out.println(f);
        }
}
public static void createFile()
{
        //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 line from user
		for(int i=1;i<=linesCount;i++)
		{
			System.out.println("Enter line"+i+":");
			content.add(obj.nextLine());
		}

		//save the content in 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 the admin.");
	}
	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();

		boolean isDeleted=FileManager.deleteFile(folderpath, fileName);
		if(isDeleted)
			System.out.println("File deleted successfully");
		else
			System.out.println("Either file not present or some access issue");
	}
	public static void searchFile()
	{
		String fileName;
		Scanner obj=new Scanner(System.in);
		System.out.println("Enter file name to be searched: ");
		fileName=obj.nextLine();

		boolean isFound=FileManager.searchFile(folderpath, fileName);
		if(isFound)
			System.out.println("File is present");
		else
			System.out.println("File is not present");

	}
```

```
}
```