

LockedMe.com

(Sprint work and Project Specification)

Version History:

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Purpose	Scrum details and specifications of the application
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1. Modules in the project

2. Display all the files.
3. Add a new file.
4. Delete a file.
5. Search a file.

2. Sprint wise work

Sprint number	Modules
1	Display all the files Add a new file
2	Delete a file Search a file
3	Close application Testing Deployment(Creating a jar file)

Display all the files: This module will return all the file names present in the directory.

Add a new file: This module will create and append content to the file.

Delete a file: This module will delete the file name specified if exists.

Search a file: This module will search the file from the folder.

3. Project GitHub Link

Repository Name	LockedMe
GitHub Link	https://github.com/Niks4u2/LockedMe

4. Cored Java Concepts Used

- Working with files
- Naming Standards
- Modularity
- Object Oriented Programming
- Collections
- Control structures
- Data Structures

5. Project Code

Folder Structure

```
└─ LockedMeProject
   └─ JRE System Library [JavaSE-16]
      └─ src
         └─ com.lockedme
            ├── FileManager.java
            └─ LockedMe.java
```

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 ArrayList
     */
    public static List<String> getAllFiles(String folderpath)
    {
        //Creating file object
        File folder = new File(folderpath);

        //Getting all the files into file array
        File[] listOfFiles = folder.listFiles();

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

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

        //return the list of file names
        return fileNames;
    }

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

```

        //Writing to file
        for(String s : content)
            fwrite.write(s+"\n");

        fwrite.close();
        return true;
    }
    catch(Exception ex)
    {
        return false;
    }
}

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

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

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

```

LockedMe.java

```

package com.lockedme;

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

```

```

public class LockedMe
{
    private static Scanner scan = new Scanner(System.in);

    private static final String FOLDERPATH =
"C:\\Users\\golun\\Desktop\\MyPhaseOneProject\\LockedMeFiles";

    public static void main(String[] args)
    {
        //Variable declaration
        int proceed = 1;
        int choice;

        do
        {
            welcomeScreen();

            //Read choice from user
            System.out.println("Please enter your choice:");
            choice = Integer.parseInt(scan.nextLine());

            switch(choice)
            {
                case 1 : getAllFileNames();
                           break;
                case 2 : addFile();
                           break;
                case 3 : deleteFile();
                           break;
                case 4 : searchFile();
                           break;
                case 5 : System.out.println("Thank you for using the
application.");
                           System.exit(0);
                           break;
                default : System.out.println("Invalid Option. Please enter
correct choice between 1 to 5.");
            }

        }while(proceed != 0);
    }

    public static void welcomeScreen()
    {
        System.out.println("*****");
        System.out.println("\t\tLockedMe.com");
        System.out.println("\t\tNikhil Jain");
        System.out.println("*****\n");

        System.out.println("1. Display all the 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\n");

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

    public static void getAllFileNames()
    {
        //Variable declaration
        List<String> fileNames = FileManager.getAllFiles(FOLDERPATH);

        //Edge condition
        if(fileNames.size() == 0)
    }
}

```

```

        System.out.println("No files in the directory.\n");
    else
        System.out.println("Below is the file list:\n");

    //Sorting file names in ascending order
    Collections.sort(fileNames);

    //Print output to console
    for(String fileName : fileNames)
        System.out.println(fileName);
    System.out.println();
}

public static void addFile()
{
    //Variable declaration
    String fileName;
    int linesCount=0;
    boolean isAdded;
    List<String> content = new ArrayList<String>();

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

    try
    {
        //Read number of lines from user
        System.out.println("Enter number of lines:");
        linesCount = Integer.parseInt(scan.nextLine());
    }
    catch(Exception ex)
    {
        System.out.println("Please enter only integer values. To add
content to the file.\n");
        isAdded=false;
    }

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

    //Save content to file
    isAdded = FileManager.createAndWriteToFile(FOLDERPATH, fileName, content);

    //Print output to console
    if(isAdded)
        System.out.println("File added successfully.\n");
    else
        System.out.println("Error occured. Please try again.\n");
}

public static void deleteFile()
{
    //Variable declaration
    String fileName;
    boolean isDeleted;

    //Read file name from user
    System.out.println("Enter file name to be deleted: ");
    fileName = scan.nextLine();

    //Check for deletion

```



```

        isDeleted = FileManager.deleteFile(FOLDERPATH, fileName);

        //Print output to console
        if(isDeleted)
            System.out.println("File deleted successfully.\n");
        else
            System.out.println("File not found or some access issue.\n");
    }

    public static void searchFile()
    {
        //Variable declaration
        String fileName;
        boolean isFound;

        //Read file name from user
        System.out.println("Enter file name to be searched: ");
        fileName = scan.nextLine();

        //Check for search result
        isFound = FileManager.searchFile(FOLDERPATH, fileName);

        //Print output to console
        if(isFound)
            System.out.println("File is present in the directory.\n");
        else
            System.out.println("File is not present in the directory.\n");
    }
}

```