LockedMe.com Project Specification and Sprint Work

Version History:

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|----------|---------------------------------------|--|--|
| Purpose: | Project Specification and Sprint Work | | |
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Modules:

- 1. List all the files from the directory
- 2. Add a file to a directory
- 3. Delete a file from directory
- 4. Search a file in a directory
- 5. Exit

Java Technologies Used:

| Object Oriented Programming |
|-----------------------------|
| Naming Standard |
| Collections |
| Control Structures |
| Data Structures |
| Working with Files |
| Modularity |
| Exception Handling |

Sprints Planning:

| Sprint Number | Modules | |
|---------------|--|--|
| 1 | List all the files from the directory | |
| | Add a file to a directory | |
| | Delete a file from directory | |
| 2 | Search a file in a directory | |
| | Exit | |
| | Main Menu | |
| | Testing Deployment (Creating Jar File) | |
| | Documentation | |

Project GITHUB Link:

| Repository Name: | MyJavaProject |
|------------------|--|
| Github Link: | https://github.com/AdeelAnsariProjects |

Project Code:

case 4 : searchFile();

Folder Structure Project Explorer 🔀 > M JRE System Library [JavaSE-16] ✓ Æ src √ Æ com.folderexplorer > 🚺 AddFile.java > DeleteFile.java > 🔝 FolderExplorer.java > 🗾 RetrieveFiles.java > I SearchFile.java FolderExplorer.java package com.folderexplorer; import java.util.ArrayList; import java.util.List; import java.util.Scanner; public class FolderExplorer static final String folderPath="E:\\FullStackJavaDeveloper\\MyJavaProject\\LockersFolder"; public static void main(String[] args) int proceed = 1; do int ch; //Application Main Menu ch=displayMenu(); switch(ch) case 1: getAllFiles(); break; case 2 : createFiles(); break; case 3 : deleteFile(); break;

```
break;
case 5 : System.exit(0);
break;
default: System.out.println("Invalid option selected.");
}
}
while(proceed>0);
public static int displayMenu()
//Variable Declaration
Scanner obj = new Scanner(System.in);
int ch;
//Application Main Menu
System.out.println("=========");
System.out.println("| Company Lockers Pvt. Ltd. (LockedMe.com) | ");
System.out.println("========");
System.out.println(" | 1. List all the files from a directory | ");
System.out.println(" | 2. Add a file to a directory
                                                 |");
System.out.println(" | 3. Delete a file from a directory | ");
System.out.println(" | 4. Search a file in a directory
                                                   |");
System.out.println(" | 5. Exit
System.out.println("=========");
System.out.println("Enter Your Choice:");
ch = Integer.parseInt(obj.nextLine());
return ch;
}
public static void getAllFiles()
//Variable Declaration
List<String>fileNames = RetrieveFiles.getAllFiles(folderPath);
//Listing all the files exist in the specified folder
for(String f:fileNames)
System.out.println(f);
}
public static void createFiles()
//Declaring variables
Scanner obj = new Scanner(System.in);
String fileName;
int linesCount;
```

```
List<String> content = new ArrayList<String>();
//Prompting user to enter file name
System.out.println("Enter File Name:");
//Taking file name from the user and storing in file Name variable
fileName=obj.nextLine();
//Prompting user to enter number of line he would like to add
System.out.println("How many lines you would like to add in the file:");
//Taking user input for number of lines into linesCount variable
//linesCount=obj.nextInt();
linesCount=Integer.parseInt(obj.nextLine());
//running for loop for the number lines he want to add to prompt user and take user input
for(int i=1;i<=linesCount;i++)</pre>
//Prompting user to add line
System.out.println("Enter line "+i+":");
//Taking user input for each line and storing into content array
content.add(obj.nextLine());
}
//saving content into the file
boolean is Saved = AddFile.createFiles(folderPath, fileName, content);
//Notifying user if the file saved successfully or not
if(isSaved)
System.out.println("File and lines saved successfully.");
}
else
System.out.println("Some error occured. Please contact system admin.");
}
public static void deleteFile()
//Variable Declaration
String fileName;
Scanner obj = new Scanner(System.in);
//Showing user a list files that currently exists in the given folder
List<String> fileNames = RetrieveFiles.getAllFiles(folderPath);
```

```
System.out.println("LIST OF FILES:");
for(String f:fileNames)
System.out.println(f);
//Prompting user to give file name to be deleted
System.out.println("Enter the file name you want to delete:");
//Taking file name from user input
fileName=obj.nextLine();
//Deleting file from the given folder
boolean is Deleted = Delete File.delete File (folder Path, file Name);
//Notifying user if the file deleted successfully or not
if(isDeleted)
System.out.println("File deleted successfully.");
else
System.out.println("Either the given file is not exist or some access issue.");
}
public static void searchFile()
//Variable Declaration
String fileName;
Scanner obj = new Scanner(System.in);
//Prompting user to give file name to search
System.out.println("Enter the name of the file you want to search:");
//Taking file name from user input
fileName=obj.nextLine();
//Search file from in the given folder
boolean isExist = SearchFile.searchFile(folderPath, fileName);
//Notifying user if the file exist or not
if(isExist)
System.out.println("The specified file exist in the folder.");
else
System.out.println("Either the specified file is not exist or some access issue.");
```

```
}
RetrieveFiles.java
package com.folderexplorer;
import java.io.File;
import java.util.ArrayList;
import java.util.List;
public class RetrieveFiles
{
* This method will return the name of all the files exist in the given folder path
* @param folderpath
* @return List<String>
public static List<String> getAllFiles(String folderPath)
//Creating file objects
File folderName = new File(folderPath);
//Getting all the files into FileArray
File[] listOfFiles = folderName.listFiles();
//Declared a list to store file names
List<String>fileName = new ArrayList<String>();
//Getting file name one by one and adding into file Name
for(File f:listOfFiles)
fileName.add(f.getName());
//return the list
return fileName;
}
AddFile.java
package com.folderexplorer;
import java.io.File;
import java.io.FileWriter;
import java.util.List;
public class AddFile
{
* This method will create file in the given folder path
```

```
* @param folderPath
* @param fileName
* @param content
* @return boolean
*/
public static boolean createFiles(String folderPath, String fileName, List<String> content)
try
//Creating file objects
File fl = new File(folderPath, fileName);
FileWriter fw = new FileWriter(fl);
//Adding content to file object line by line
for(String s:content)
{
fw.write(s+"\n");
//closing object
fw.close();
//returning true if succeed
return true;
catch(Exception Ex)
//return false if failed
return false;
}
}
DeleteFile.java
package com.folderexplorer;
import java.io.File;
public class DeleteFile
* This method will delete user specified file from the given folder
```

* @param folderPath * @param fileName * @return boolean

public static boolean deleteFile(String folderPath, String fileName)

```
//Creating file objects
File fI = new File(folderPath+"\"+fileName);

try
{
   if(fI.delete())
{
    //if file successfully deleted return true
   return true;
}
   else
{
   //if file id not deleted return false
   return false;
}
}
catch(Exception Ex)
{
   //if deletion is failed return false
   return false;
}
}
```

SearchFile.java

```
package com.folderexplorer;
import java.io.File;
public class SearchFile
* This method will search a file name in the specified folder
* @param folderPath
* @param fileName
* @return boolean
public static boolean searchFile(String folderPath, String fileName)
//Creating file object
File fl = new File(folderPath+"\\"+fileName);
//check if file exist in the specified folder, return true if exist else false
if(fl.exists())
{
return true;
}
else
```

| return false; | | |
|---------------|--|--|
| } | | |
| } | | |
| } | | |