

module-info.java MainMenu.java × BusinessMenu.java

```
1 package lockedMe.com;
2
3 import java.util.*;
4
5 public class MainMenu {
6
7     public static void welcomeScreen(String applicationName, String developer) {
8         String details = String.format("_____ \n"
9             + "Welcome to the %.s. \n" + "LOCKEDME.COM application was developed by %.s.\n"
10             + "_____ \n", applicationName, developer);
11
12         System.out.println(details);
13     }
14
15     public static void mainMenuOptions() {
16         String mainMenu = "\n\n-----Select any option to perform and press Enter-----\n\n"
17             + "1) Retrieve all files inside the folder in ascending order \n"
18             + "2) Business Operation menu for Files \n"
19             + "3) Exit program\n";
20         System.out.println(mainMenu);
21     }
22
23     public static void businessMenuOptions() {
24         String businessMenu = "\n\n-----Select any option to perform and press Enter-----\n\n"
25             + "1) Add a file to the folder\n"
26             + "2) Delete a file from the folder\n"
27             + "3) Search for a file from the folder\n"
28             + "4) Redirect to Previous Menu\n"
29             + "5) Close and Exit program\n";
30     }
31 }
```

Problems @ Javadoc Declaration Console × Coverage

<terminated> New_configuration [Java Application] C:\Users\ddeve\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (09-Apr-2022, 12:54:42 pm - 12:56:02 pm) [pid: 6608]

```
Welcome to the LockedMe.com.
LOCKEDME.COM application was developed by Aswinkumar M.
```

```
Select any option to perform and press Enter
```

Writable

Smart Insert

1:1:0

ENG
IN12:57
09-04-2022

eclipse-workspace - deepa1/src/lockedMe/com/MainMenu.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

module-info.java MainMenu.java BusinessMenu.java

```
27 + "1) Add a file to the folder\n"
28 + "2) Delete a file from the folder\n"
29 + "3) Search for a file from the folder\n"
30 + "4) Redirect to Previous Menu\n"
31 + "5) Close and Exit program\n";
32
33 System.out.println(businessMenu);
34 }
35
36 public static void handleMainMenuOperations() {
37     boolean running = true;
38     Scanner sc = new Scanner(System.in);
39     do {
40         try {
41             mainMenuOptions();
42             int input = sc.nextInt();
43
44             switch (input) {
45                 case 1:
46                     BusinessMenu.displayAllFiles("main");
47                     break;
48                 case 2:
49                     handleBusinessMenuOperations();
50                     break;
51                 case 3:
52                     System.out.println("Program exited successfully.");
53                     running = false;
54                     sc.close();
55                     System.exit(0);
56                     break;
57                 default:
58                     System.out.println("Please select a valid option from above.");
59             }
60         } catch (Exception e) {
61             System.out.println(e.getClass().getName());
62             handleMainMenuOperations();
63         }
64     } while (running == true);
65 }
66
67 public static void handleBusinessMenuOperations() {
68     boolean running = true;
69     Scanner sc = new Scanner(System.in);
```

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12:58 09-04-2022

module-info.java MainMenu.java BusinessMenu.java

```
66
67 @
68 public static void handleBusinessMenuOperations() {
69     boolean running = true;
70     Scanner sc = new Scanner(System.in);
71     do {
72         try {
73             businessMenuOptions();
74             BusinessMenu.generateMainIfNotExist("main");
75
76             int input = sc.nextInt();
77             String file;
78             switch (input) {
79                 case 1:
80                     // File Add
81                     System.out.println("Enter the name of the file that needs to be added to the folder");
82                     file = sc.next();
83                     BusinessMenu.generateFile(file, sc);
84
85                     break;
86                 case 2:
87                     // delete
88                     System.out.println("Enter the name of the file that needs to be deleted from folder");
89                     file = sc.next();
90
91                     BusinessMenu.generateMainIfNotExist("main");
92                     List<String> deleteFiles = BusinessMenu.showFileLocations(file, "main");
93
94                     String deleteMsg = "\nSelect index of which file to delete?"
95                                     + "\n(Enter 1 if you want to delete)";
96                     System.out.println(deleteMsg);
97
98                     int index = sc.nextInt();
99
100                     if (index != 0) {
101                         BusinessMenu.deleteFileInLoop(deleteFiles.get(index - 1));
102                     } else {
103
104                         // delete all files displayed
105                         for (String path : deleteFiles) {
106                             BusinessMenu.deleteFileInLoop(path);
107                         }
108                     }
109             }
110         }
111     }
112 }
```

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108 : 1 : 3151

ENG
IN12:59
09-04-2022

```
module-info.java  MainMenu.java  BusinessMenu.java
105         BusinessMenu.deleteFileInLoop(path);
106     }
107 }
108
109     break;
110 case 3:
111     // Search
112     System.out.println("Enter the name of the file needs to be searched from folder");
113     String fileName = sc.next();
114
115     BusinessMenu.generateMainIfNotExist("main");
116     BusinessMenu.showFileLocations(fileName, "main");
117
118     break;
119 case 4:
120     // redirect to Previous menu
121     return;
122 case 5:
123     // close and exit
124     System.out.println("Program closed successfully.");
125     running = false;
126     sc.close();
127     System.exit(0);
128 default:
129     System.out.println("Please select a valid option.");
130 }
131 } catch (Exception e) {
132     System.out.println(e.getClass().getName());
133     handleBusinessMenuOperations();
134 }
135 } while (running == true);
136 }
137 public static void main(String[] args) {
138
139     // Create "main" folder if not present in current folder structure
140     BusinessMenu.generateMainIfNotExist("main");
141
142     welcomeScreen("LockedMe.com", "Aswinkumar M");
143
144     handleMainMenuOperations();
145 }
146 }
147 }
```

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105 : 21 : 3094

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09-04-2022


```
module-info.java MainMenu.java BusinessMenu.java ×
1 package lockedMe.com;
2 import java.io.File;
3 import java.io.IOException;
4 import java.nio.file.Files;
5 import java.nio.file.Path;
6 import java.nio.file.Paths;
7 import java.util.ArrayList;
8 import java.util.Arrays;
9 import java.util.Collections;
10 import java.util.List;
11 import java.util.Scanner;
12 import java.util.stream.Collectors;
13 import java.util.stream.IntStream;
14
15 public class BusinessMenu {
16     public static void generateMainIfNotExist(String folderName) {
17         File file = new File(folderName);
18         if (!file.exists()) {
19             file.mkdirs();
20         }
21     }
22
23     public static void displayAllFiles(String path) {
24         generateMainIfNotExist("main");
25         System.out.println("Displaying all the files inside the main folder in the directory structure in ascending order\n");
26
27         List<String> fileNames = showFilesInDirectory(path, 0, new ArrayList<String>());
28         System.out.println("Displaying files in the ascending order\n");
29         Collections.sort(fileNames);
30         fileNames.stream().forEach(System.out::println);
31     }
32
33     public static List<String> showFilesInDirectory(String path, int indent, List<String> listOfFiles) {
34         File directory = new File(path);
35         File[] files = directory.listFiles();
36         List<File> listFiles = Arrays.asList(files);
37         Collections.sort(listFiles);
38         if (files != null && files.length > 0) {
39             for (File file : listFiles) {
40                 if (file.isDirectory()) {
41                     System.out.println("`-- " + file.getName());
42                     listOfFiles.add(file.getName());
43                     showFilesInDirectory(file.getAbsolutePath(), indent + 1, listOfFiles);
44                 }
45             }
46         }
47         return listOfFiles;
48     }
49 }
```

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09-04-2022

```
module-info.java MainMenu.java BusinessMenu.java ×
43 showFilesInDirectory(file.getAbsolutePath(), indent + 1, listOfFiles);
44 } else {
45     System.out.println("|-- " + file.getName());
46     listOfFiles.add(file.getName());
47 }
48 }
49 } else {
50     System.out.println("|-- Empty Directory");
51 }
52 System.out.println();
53 return listOfFiles;
54 }
55
56 public static void generateFile(String fileToAdd, Scanner sc) {
57     generateMainIfNotExist("main");
58     Path pathToFile = Paths.get("./main/" + fileToAdd);
59     try {
60         Files.createDirectories(pathToFile.getParent());
61         Files.createFile(pathToFile);
62         System.out.println(fileToAdd + " created successfully in the main");
63         System.out.println("Would you like to add content to the file if yes press Y or N? (Y/N)");
64         String choice = sc.next().toLowerCase();
65         sc.nextLine();
66         if (choice.equals("y")) {
67             System.out.println("\n\nInput content and press enter\n");
68             String content = sc.nextLine();
69             Files.write(pathToFile, content.getBytes());
70             System.out.println("\nContent written to file " + fileToAdd);
71             System.out.println("Content can be read using Notepad or Notepad++");
72         }
73     } catch (IOException e) {
74         System.out.println("Failed to create file " + fileToAdd);
75         System.out.println(e.getClass().getName());
76     }
77 }
78 }
79
80 public static List<String> showFileLocations(String fileName, String path) {
81     List<String> fileNames = new ArrayList<>();
82     searchFileInLoop(path, fileName, fileNames);
83
84     if (fileNames.isEmpty()) {
85         System.out.println("\n\n-----Could not find any file with the given file name \"" + fileName + "\" -----");
86     }
87 }
```

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85:25:2912

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```
module-info.java MainMenu.java BusinessMenu.java ×
88
89     List<String> files = IntStream.range(0, fileNames.size())
90         .mapToObj(index -> (index + 1) + ": " + fileNames.get(index)).collect(Collectors.toList());
91
92     files.forEach(System.out::println);
93 }
94
95 return fileNames;
96 }
97
98 public static void searchFileInLoop(String path, String fileName, List<String> fileNames) {
99     File directory = new File(path);
100     File[] files = directory.listFiles();
101     List<File> filesList = Arrays.asList(files);
102
103     if (files != null && files.length > 0) {
104         for (File file : filesList) {
105             if (file.getName().startsWith(fileName)) {
106                 fileNames.add(file.getAbsolutePath());
107             }
108             if (file.isDirectory()) {
109                 searchFileInLoop(file.getAbsolutePath(), fileName, fileNames);
110             }
111         }
112     }
113 }
114
115 public static void deleteFileInLoop(String path) {
116
117     File currentFile = new File(path);
118     File[] files = currentFile.listFiles();
119
120     if (files != null && files.length > 0) {
121         for (File file : files) {
122             String fileName = file.getName() + " at " + file.getParent();
123             if (file.isDirectory()) {
124                 deleteFileInLoop(file.getAbsolutePath());
125             }
126             if (file.delete()) {
127                 System.out.println(fileName + " deleted successfully");
128             } else {
129                 System.out.println("Failed to delete the file " + fileName);
130             }
131         }
132     }
133 }
```

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88 : 1 : 3079

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09-04-2022

```
102
103     if (files != null && files.length > 0) {
104         for (File file : filesList) {
105             if (file.getName().startsWith(fileName)) {
106                 fileNames.add(file.getAbsolutePath());
107             }
108             if (file.isDirectory()) {
109                 searchFileInLoop(file.getAbsolutePath(), fileName, fileNames);
110             }
111         }
112     }
113 }
114
115 public static void deleteFileInLoop(String path) {
116     File currentFile = new File(path);
117     File[] files = currentFile.listFiles();
118
119     if (files != null && files.length > 0) {
120         for (File file : files) {
121             String fileName = file.getName() + " at " + file.getParent();
122             if (file.isDirectory()) {
123                 deleteFileInLoop(file.getAbsolutePath());
124             }
125             if (file.delete()) {
126                 System.out.println(fileName + " deleted successfully");
127             } else {
128                 System.out.println("Failed to delete the file " + fileName);
129             }
130         }
131     }
132 }
133
134 String currFileName = currentFile.getName() + " at " + currentFile.getParent();
135 if (currentFile.delete()) {
136     System.out.println(currFileName + " deleted successfully");
137 } else {
138     System.out.println("Failed to delete " + currFileName);
139 }
140 }}
141
142
143
144
```

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144 : 1 : 4616

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IN13:03
09-04-2022

eclipse-workspace - deepa1/src/lockedMe/com/BusinessMenu.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Problems @ Javadoc Declaration Console × Coverage

<terminated> New_configuration [Java Application] C:\Users\ddeve\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (09-Apr-2022, 12:54:42 pm – 12:56:02 pm) [pid: 6608]

```
Welcome to the LockedMe.com.  
LOCKEDME.COM application was developed by Aswinkumar M.  
  
-----Select any option to perform and press Enter-----  
  
1) Retrieve all files inside the folder in ascending order  
2) Business Operation menu for Files  
3) Exit program  
  
2  
  
-----Select any option to perform and press Enter-----  
  
1) Add a file to the folder  
2) Delete a file from the folder  
3) Search for a file from the folder  
4) Redirect to Previous Menu  
5) Close and Exit program  
  
1  
Enter the name of the file that needs to be added to the folder  
deepu  
deepu created successfully in the main  
Would you like to add content to the file if yes press Y or N? (Y/N)  
Y  
  
Input content and press enter  
  
hii  
  
Content written to file deepu  
Content can be read using Notepad or Notepad++  
  
-----Select any option to perform and press Enter-----
```

13:03 09-04-2022

eclipse-workspace - deepa1/src/lockedMe/com/BusinessMenu.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Problems @ Javadoc Declaration Console x Coverage

<terminated> New_configuration [Java Application] C:\Users\ddeve\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (09-Apr-2022, 12:54:42 pm - 12:56:02 pm) [pid: 6608]

```
2) Business Operation menu for Files
3) Exit program

2

-----Select any option to perform and press Enter-----

1) Add a file to the folder
2) Delete a file from the folder
3) Search for a file from the folder
4) Redirect to Previous Menu
5) Close and Exit program

1
Enter the name of the file that needs to be added to the folder
deepu
deepu created successfully in the main
Would you like to add content to the file if yes press Y or N? (Y/N)
Y

Input content and press enter
hii

Content written to file deepu
Content can be read using Notepad or Notepad++

-----Select any option to perform and press Enter-----

1) Add a file to the folder
2) Delete a file from the folder
3) Search for a file from the folder
4) Redirect to Previous Menu
5) Close and Exit program

5
Program closed successfully.
```

Windows taskbar: 13:04 09-04-2022