



LOCKEDME.COM

Secure app

Abstract

To develop the features of the application by planning the development in terms of sprints and then push the source code to the GitHub repository. As this is a prototyped application, the user interaction will be via a command line.

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PROJECT DESCRIPTION

Objective:

As a Full Stack Developer, complete the features of the application by planning the development in terms of sprints and then push the source code to the GitHub repository. As this is a prototyped application, the user interaction will be via a command line.

Requirements

- Code to display the welcome screen. It should display:
 - Application name and the developer details
 - The details of the user interface such as options displaying the user interaction information
 - Features to accept the user input to select one of the options listed
- The first option should return the current file names in ascending order. The root directory can be either empty or contain few files or folders in it
- The second option should return the details of the user interface such as options displaying the following:
 - Add a file to the existing directory list
 - You can ignore the case sensitivity of the file names
 - Delete a user specified file from the existing directory list
 - You can add the case sensitivity on the file name in order to ensure that the right file is deleted from the directory list
 - Return a message if FNF (File not found)
 - Search a user specified file from the main directory
 - You can add the case sensitivity on the file name to retrieve the correct file
 - Display the result upon successful operation
 - Display the result upon unsuccessful operation
 - Option to navigate back to the main context
- There should be a third option to close the application

Software Use:

- Eclipse: An IDE to code for the application

Programming Language:

- Java: A programming language to develop the prototype

Version Control System

- Git: To connect and push files from the local system to GitHub
- GitHub: To store the application code and track its versions

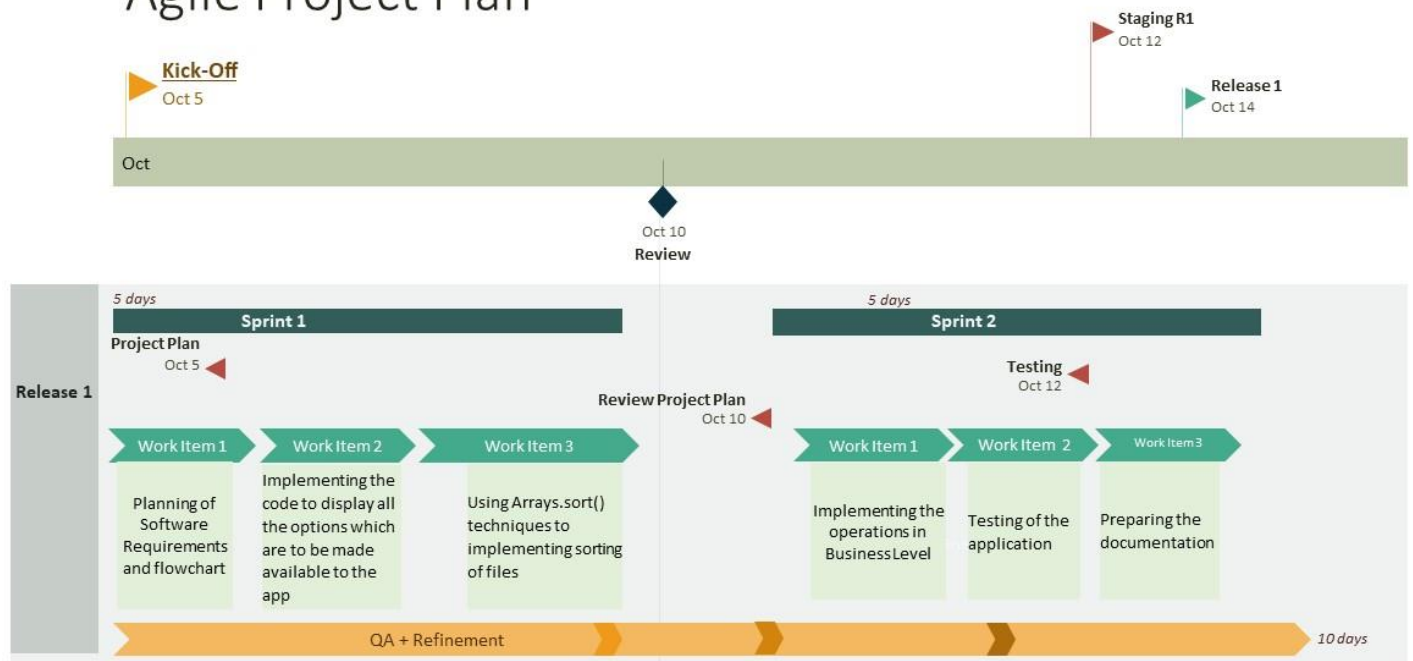
GITHUB LINK

Repository link to LockedMe.com Project:

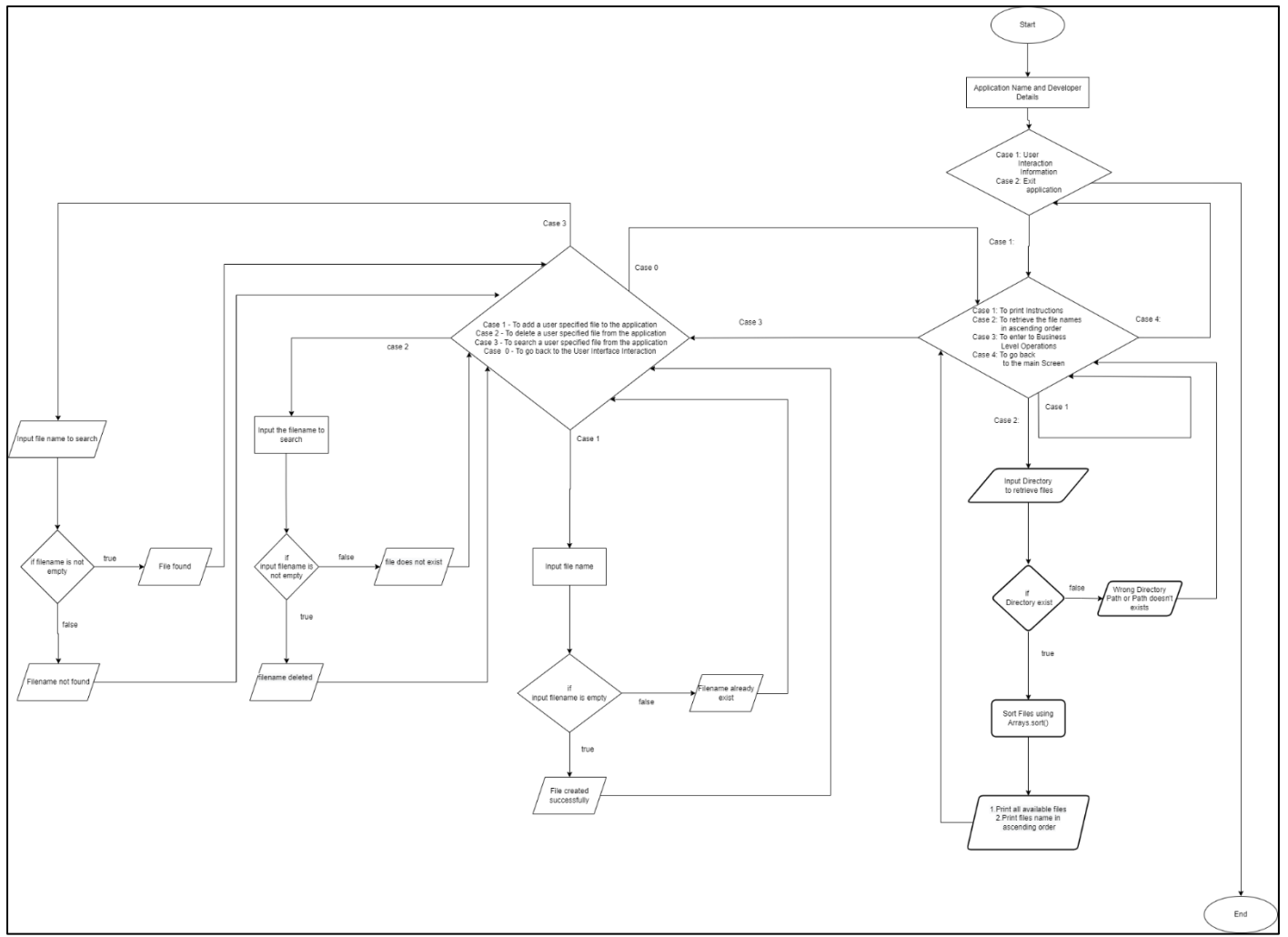
<https://github.com/manbha03/ProjectPhase1/tree/main/LockedMe.com>

SPRINT PLANNING

Agile Project Plan



FLOWCHART



SOURCE CODE

Main Class

```
package com.lockers;
import java.util.Scanner;

public class Main {
    private static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {

        System.out.println("\n*****\n\n");
        System.out.println("\tWelcome to LockeMe.com secure app\n\n\n");
        System.out.println("\tDeveloped by: Dakamanbha Ryngkhlem\n" + "\n\tSeptember, 2022");
        System.out.println("\n*****\n\n");

        displayInfo();

        boolean quit = false;
        while(!quit) {
            System.out.println("\nEnter your choice: ");
            int choice = sc.nextInt();
            switch(choice) {

                case 1:
                    UserInfo.userInteraction();
                    break;

                case 2:
                    quit=true;
                    System.out.println("Exiting from the application...");
                    break;

                default:
                    System.out.println("Please enter only numbers from 0-1");
                    break;

            }
        }

        public static void displayInfo() {
            System.out.println("Press #1 To continue");
            System.out.println("Press #2 To exit");
        }
    }
}
```

User Interaction Information

```
package com.lockers;
import java.io.File;
import java.io.FileFilter;
import java.util.Arrays;
import java.util.Comparator;
import java.util.Scanner;

public class UserInfo{

    private static Scanner sc = new Scanner(System.in);

    public static void userInteraction() {

        boolean quit = false;
        int choice = 0;

        printInstructions();

        while(!quit){
            System.out.println("Enter the action to perform in User Interaction: "
                               + "(1 - Display Instructions) ");
            choice = sc.nextInt();

            switch(choice) {
                case 1:
                    UserInfo.printInstructions();
                    break;
                case 2:
                    sortFiles();
                    break;
                case 3:
                    BusinessLevelOperations.operation();
                    break;
                case 0:
                    quit = true;
                    Main.displayInfo();
                    break;
                default:
                    System.out.println("Please enter only numbers from 0-3");
                    break;
            }
        }
    }

    private static void printInstructions() {
        System.out.println("User Interaction Information");
        System.out.println("\t 1 - Display all instructions");
        System.out.println("\t 2 - To retrieve the file names in an ascending order");
        System.out.println("\t 3 - To enter to Business-level operations");
        System.out.println("\t 0 - To go back to the main screen");
    }

    private static void sortFiles() {

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the file path: ");
        String dirPath = sc.nextLine(); // Takes the directory path as the user input

        File folder = new File(dirPath);
        if(folder.isDirectory()) {

            File[] fileList = folder.listFiles();

            Arrays.sort(fileList);
        }
    }
}
```

```

System.out.println("\nTotal number of items present in the directory: " + fileList.length );

System.out.println("\nPrinting all available files in the directory");

// Lists only files since we have applied file filter
for(File file:fileList) {
    System.out.println("\t" +file.getName());
}
System.out.println("-----\n");

// Creating a filter to return only files.
FileFilter fileFilter = new FileFilter()
{
    @Override
    public boolean accept(File file) {
        return !file.isDirectory();
    }
};

fileList = folder.listFiles(fileFilter);

// Sort files in ascending order alphabetically
Arrays.sort(fileList, new Comparator<Object>()
{
    @Override
    public int compare(Object f1, Object f2) {
        return ((File) f1).getName().compareToIgnoreCase(((File) f2).getName());
    }
});
System.out.println("Printing only files in ascending order\n ");
//Prints the files in file name ascending order
for(File file:fileList)
{
    System.out.println(file.getName());
}
System.out.println("*****");
}
else {
    System.out.println("Wrong Directory Path or Path doesn't exists");
}
}
}

```

Business Level Operations

```
package com.lockers;
import java.io.File;
import java.io.IOException;
import java.util.Scanner;

public class BusinessLevelOperations{

    private static Scanner sc = new Scanner(System.in);

    public static void operation() {
        printInstructions();

        boolean quit = false;
        int choice = 1;
        while(!quit) {
            System.out.println("Enter the operations you would like to perform in Business Operation: ");
            choice = sc.nextInt();
            switch(choice) {
                case 0:
                    quit=true;
                    break;
                case 1:
                    addfile();
                    break;
                case 2:
                    deleteFile();
                    break;
                case 3:
                    searchForFile();
                    break;
                default:
                    System.out.println("Please enter only numbers from 0-3");
                    break;
            }
        }
    }

    private static void printInstructions() {
        System.out.println("Entering Business Level-Operations"
            +"\n 1 - To add a user specified file to the application"
            +"\n 2 - To delete a user specified file from the application"
            +"\n 3 - To search a user specified file from the application"
            +"\n 0 - To go back to the User Interface Interaction");
    }

    private static void searchForFile() {
        System.out.println("Enter your file name you would like to search: ");
        String inputFile = sc.next();
        sc.nextLine();
        File searchFile = new File(inputFile);
        if(searchFile.exists()){
            System.out.println("\n"+searchFile.getName()+" found. " );
        }
        else{
            System.out.println("\n" +searchFile.getName()+" file is not found or file does not exist");
        }
    }
}
```

```

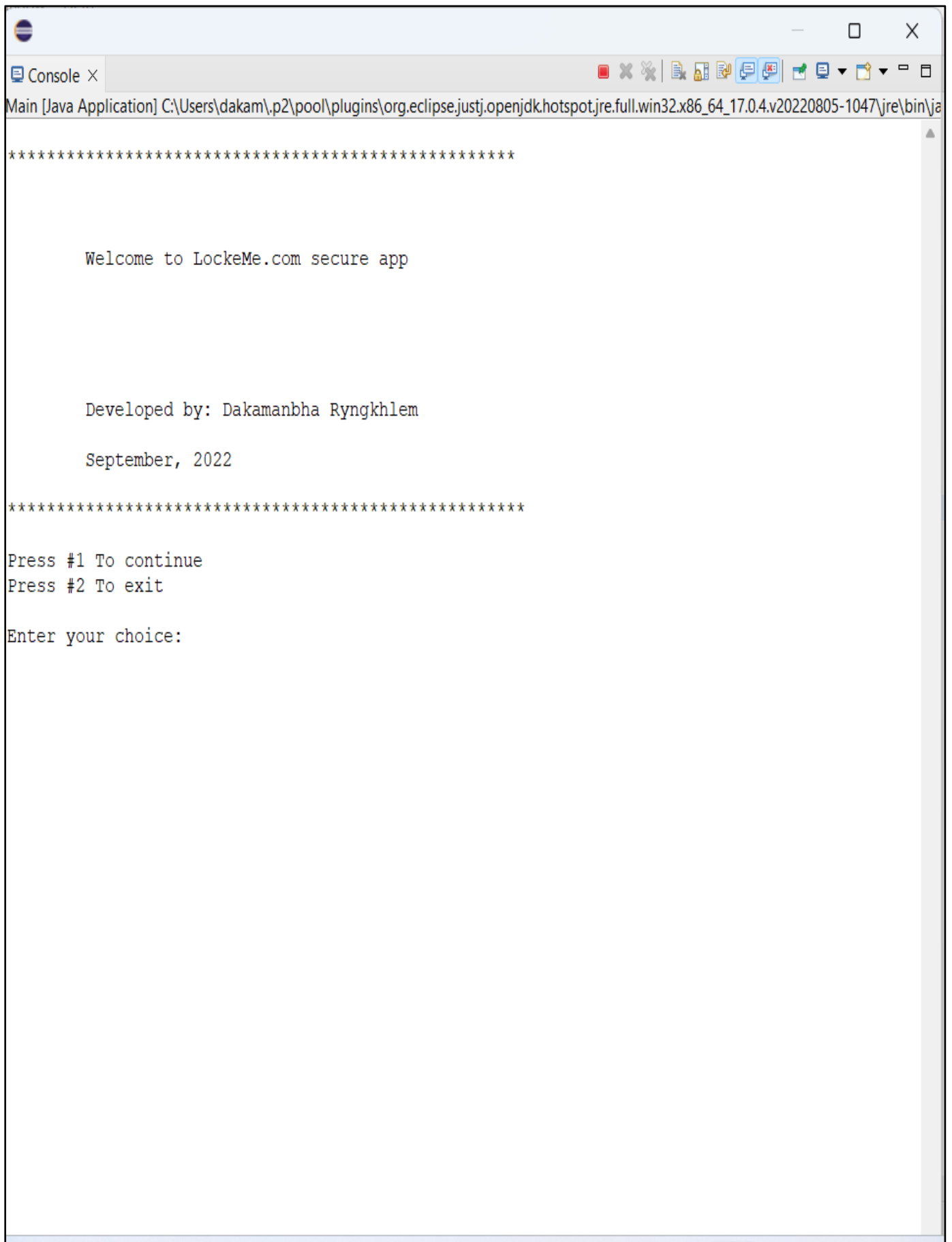
private static void deleteFile() {
    System.out.println("Enter your file name you would like to delete: ");
    String filename = sc.next();
    File myfile = new File(filename);
    if(myfile.delete()) {
        System.out.println("\n"+myfile.getName() +" is deleted successfully ");
    }
    else {
        System.out.println("\n"+myfile.getName() +" failed to be deleted or file does not exist");
    }
}
private static void addfile() {
    try {
        System.out.println("Enter your file name you would like to create: ");
        String filename = sc.next();

        File myObj = new File(filename);
        if(myObj.createNewFile()) {
            System.out.println("\n" +filename+ " File Created Successfully");
        }
        else {
            System.out.println("\nFile already exist");
        }
    } catch (IOException e) {
        System.out.println("\nAn error occured");
        e.printStackTrace();
    }
}
}

```

OUTPUT

Figure 1: Welcome Screen



The screenshot shows a Java application window titled "Console X". The window displays the following text:

```
Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\ja

*****

Welcome to LockeMe.com secure app

Developed by: Dakamanbha Ryngkhlem

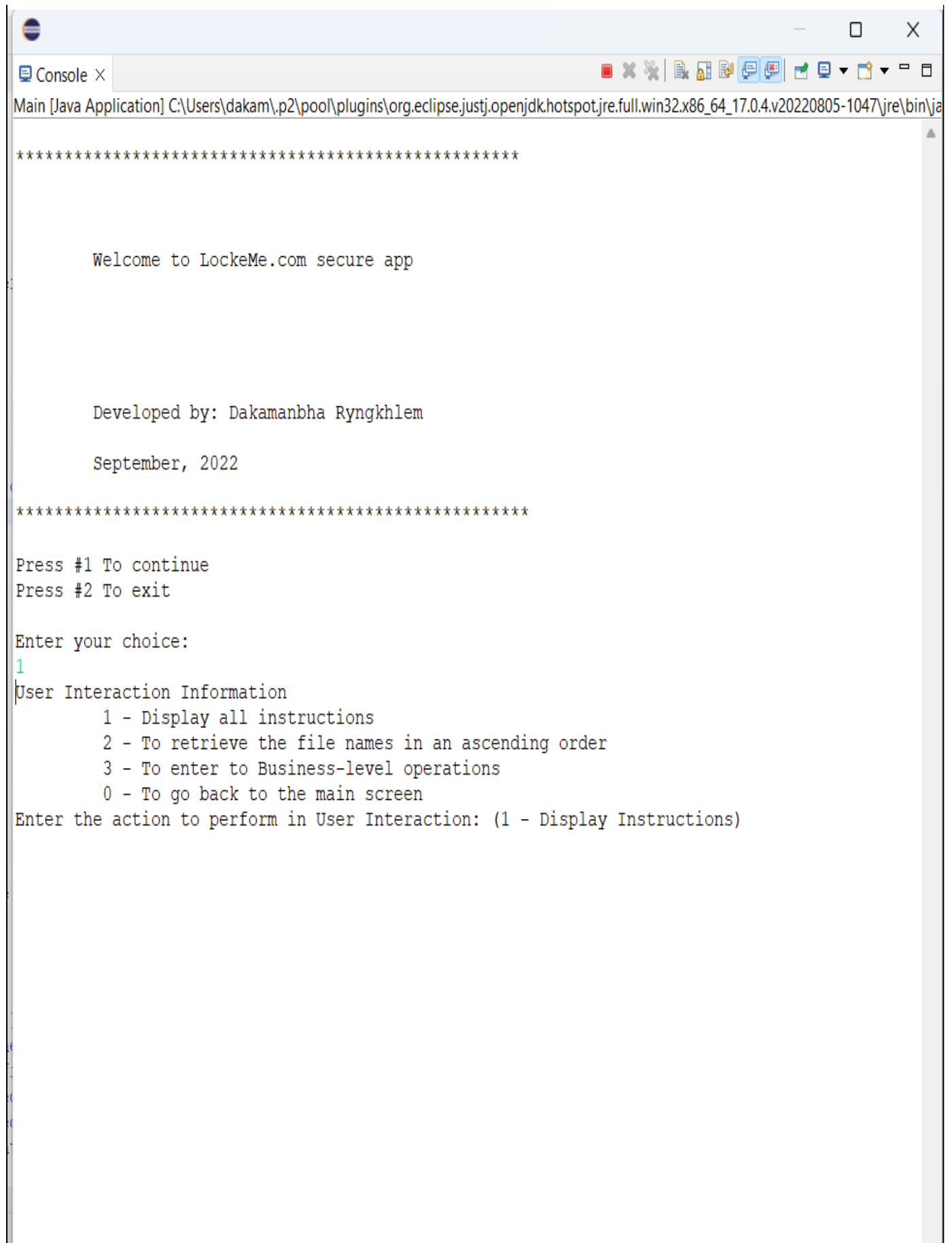
September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
```

Figure 2: Option1: (From Welcome Screen



The screenshot shows a Java application window titled 'Console X' with a standard Windows title bar. The application path is visible in the title bar: 'Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\ja'. The console output is as follows:

```
*****

Welcome to LockeMe.com secure app


Developed by: Dakamanbha Ryngkhlem

September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
```

Figure 3: Option 1: (From User Interaction Information)

```
Console X
Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\ja

*****

Welcome to LockeMe.com secure app

Developed by: Dakamanbha Ryngkhlem

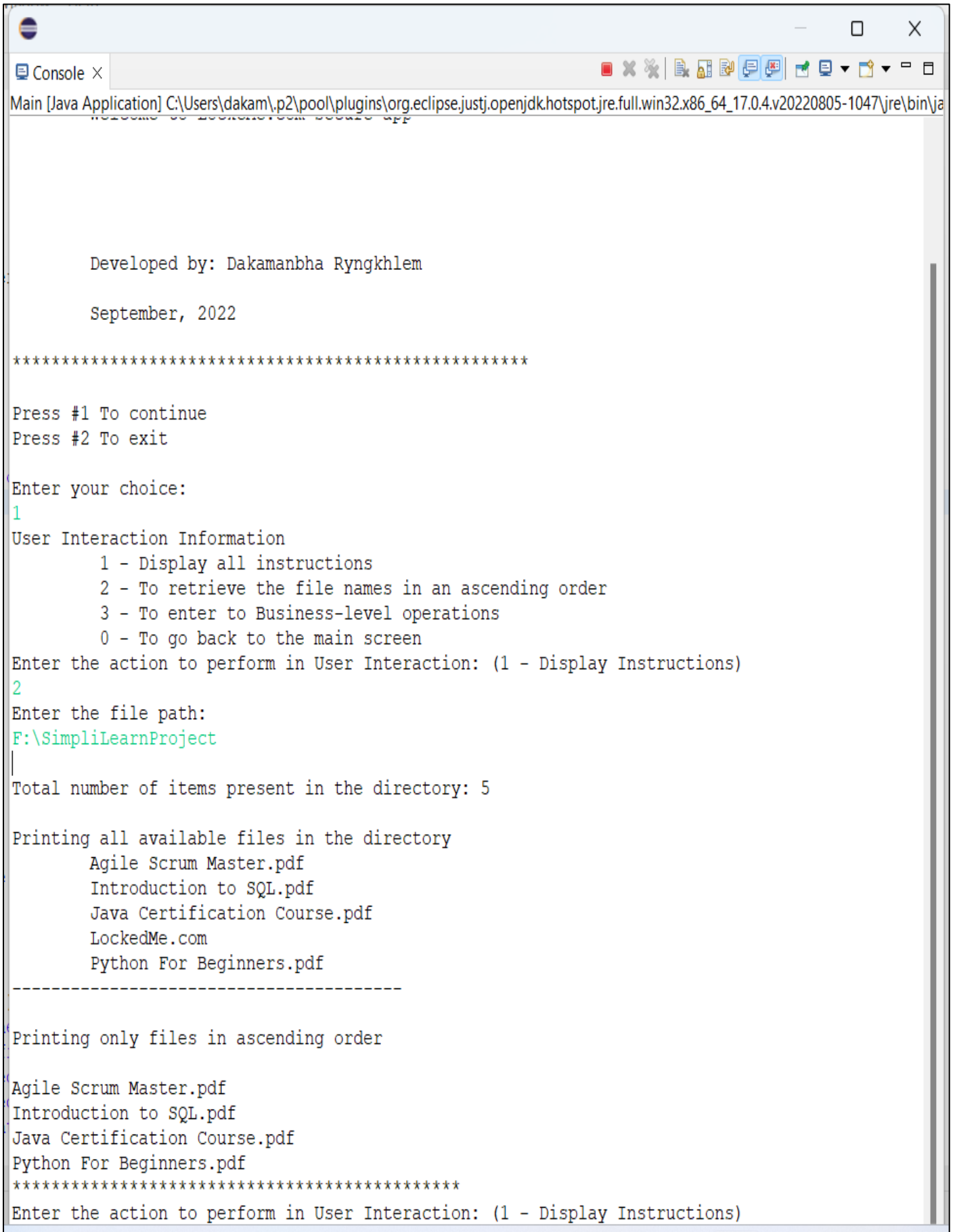
September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
```

Figure 4: Option 2: (From User Interaction Information)

A screenshot of a Java application window titled "Console X". The window's title bar includes standard Windows window controls (minimize, maximize, close) and a toolbar with various icons. The main content area displays the following text:

```
Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\ja
Welcome to SimpliLearnProject Desktop App

Developed by: Dakamanbha Ryngkhlem

September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
2
Enter the file path:
F:\SimpliLearnProject
|
Total number of items present in the directory: 5

Printing all available files in the directory
    Agile Scrum Master.pdf
    Introduction to SQL.pdf
    Java Certification Course.pdf
    LockedMe.com
    Python For Beginners.pdf
-----

Printing only files in ascending order
Agile Scrum Master.pdf
Introduction to SQL.pdf
Java Certification Course.pdf
Python For Beginners.pdf
*****
Enter the action to perform in User Interaction: (1 - Display Instructions)
```

Figure 5: Option 3: (From User Interaction Information to Business Level Operations)

```
Console X
Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\j...

*****

Welcome to LockeMe.com secure app

Developed by: Dakamanbha Ryngkhlem

September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
3
Entering Business Level-Operations
    1 - To add a user specified file to the application
    2 - To delete a user specified file from the application
    3 - To search a user specified file from the application
    0 - To go back to the User Interface Interaction
Enter the operations you would like to perform in Business Operation:
```

Figure 6: Option 1: (From Business Level Operation)

```
Console x
Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\

Welcome to LockeMe.com secure app

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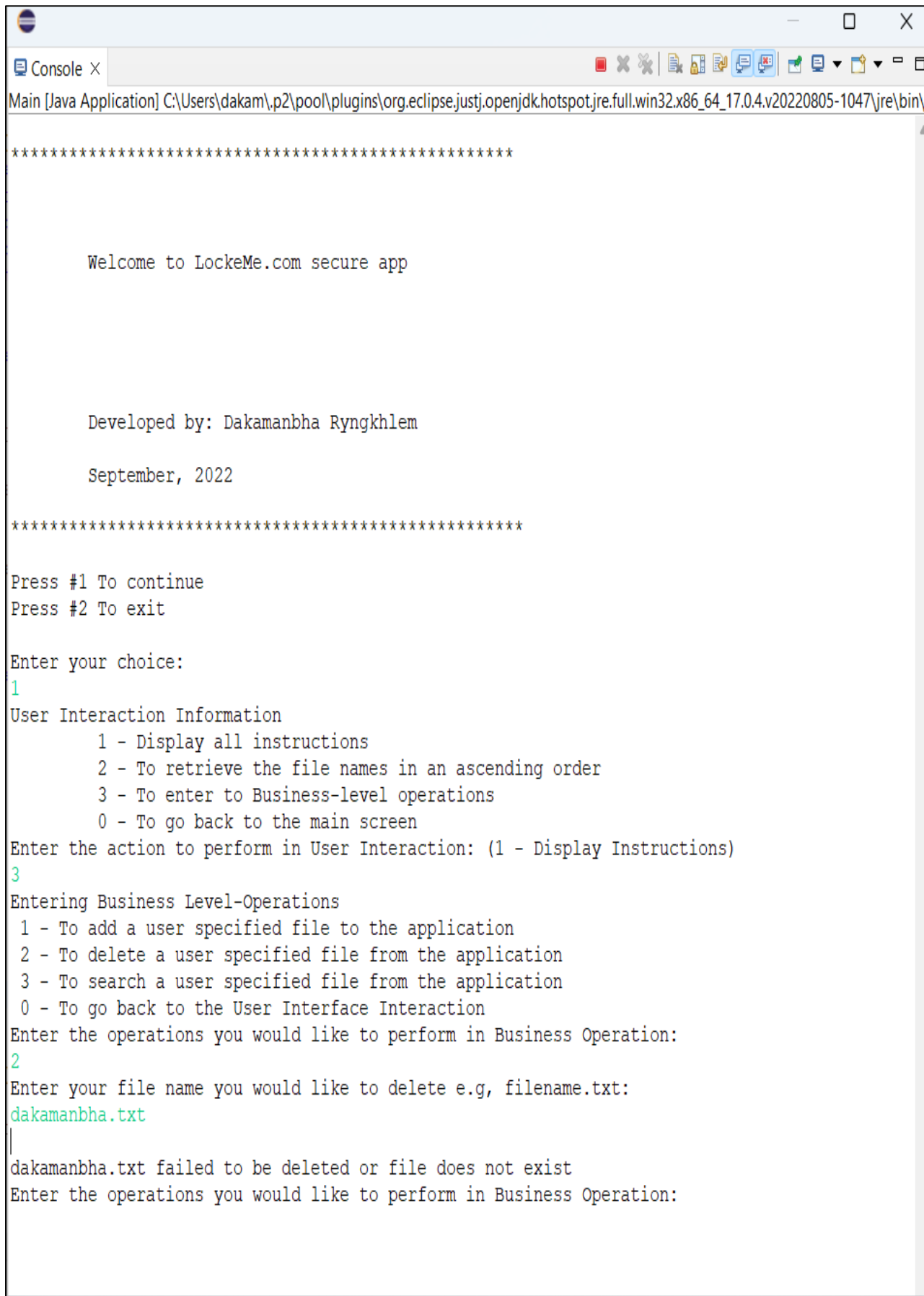
September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
3
Entering Business Level-Operations
    1 - To add a user specified file to the application
    2 - To delete a user specified file from the application
    3 - To search a user specified file from the application
    0 - To go back to the User Interface Interaction
Enter the operations you would like to perform in Business Operation:
1
Enter your file name you would like to create e.g, filename.txt:
dakamanbha.txt
dakamanbha.txt File Created Successfully
Enter the operations you would like to perform in Business Operation:
1
Enter your file name you would like to create e.g, filename.txt:
dakamanbha.txt
File already exist
Enter the operations you would like to perform in Business Operation:
```


Figure 7: Option 2: (From Business Level Operations)



```
*****

Welcome to LockeMe.com secure app

Developed by: Dakamanbha Ryngkhlem

September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
3
Entering Business Level-Operations
    1 - To add a user specified file to the application
    2 - To delete a user specified file from the application
    3 - To search a user specified file from the application
    0 - To go back to the User Interface Interaction
Enter the operations you would like to perform in Business Operation:
2
Enter your file name you would like to delete e.g, filename.txt:
dakamanbha.txt
|
dakamanbha.txt failed to be deleted or file does not exist
Enter the operations you would like to perform in Business Operation:
```

Figure 8: Option 3: (From Business Level Operations)

```
Console X
Main [Java Application] C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\ja

Welcome to LockeMe.com secure app

Developed by: Dakamanbha Ryngkhlem

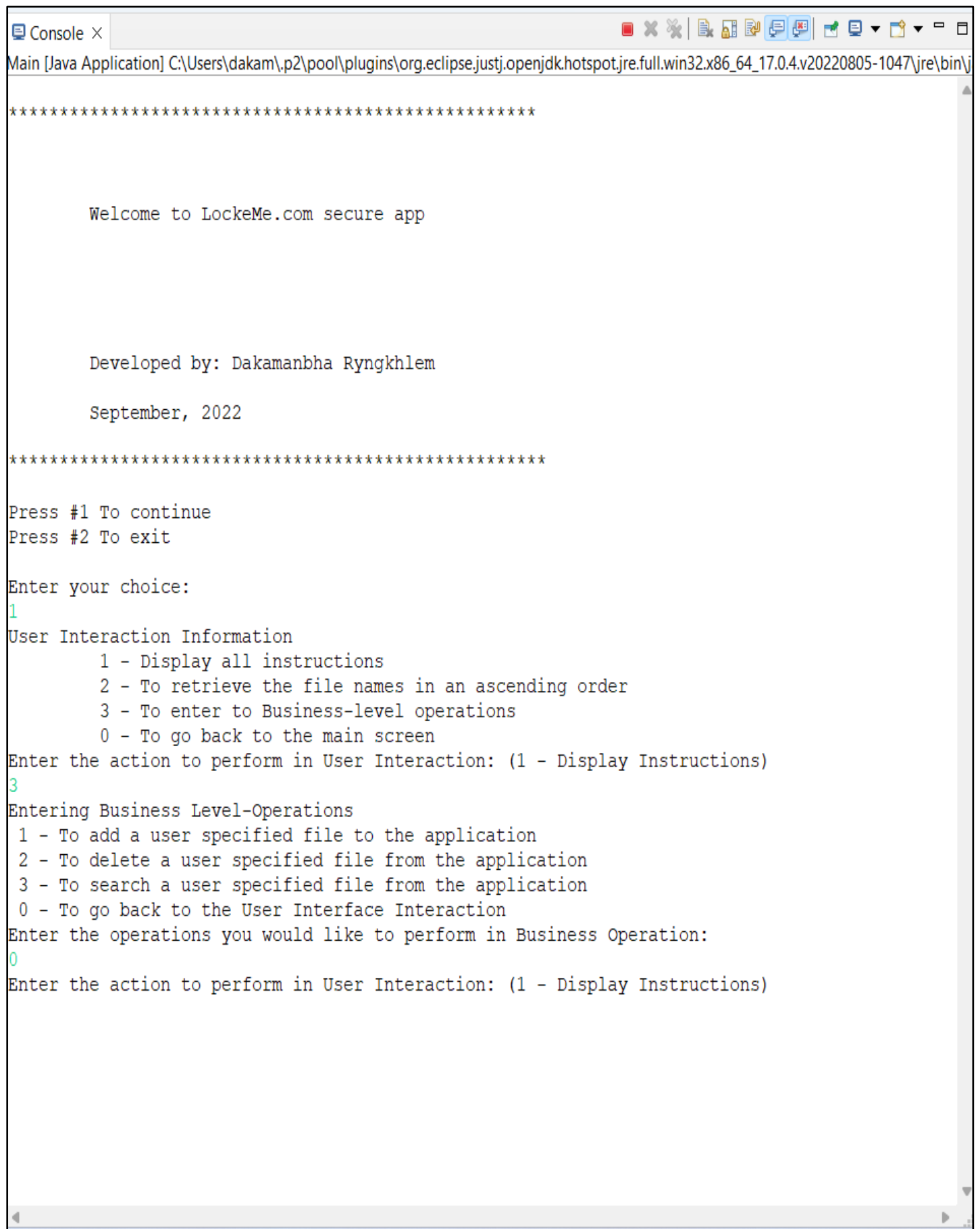
September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
3
Entering Business Level-Operations
    1 - To add a user specified file to the application
    2 - To delete a user specified file from the application
    3 - To search a user specified file from the application
    0 - To go back to the User Interface Interaction
Enter the operations you would like to perform in Business Operation:
3
Enter your file name you would like to search e.g, filename.txt:
try.txt
try.txt file is not found or file does not exist
Enter the operations you would like to perform in Business Operation:
3
Enter your file name you would like to search e.g, filename.txt:
testing.txt
testing.txt found.
Enter the operations you would like to perform in Business Operation:
```

Figure 9: Option 0: (From Business Level Operations)



```
*****

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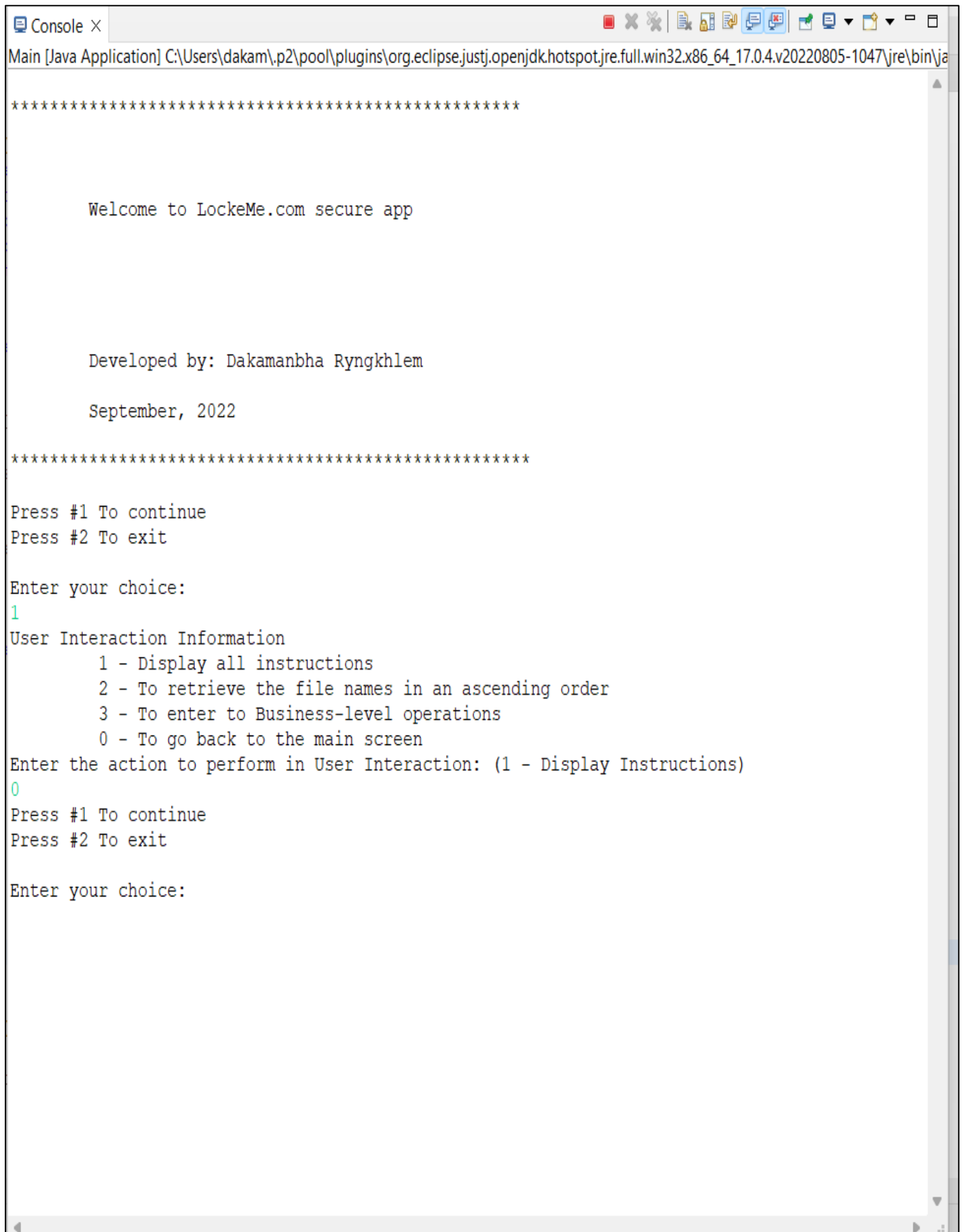
September, 2022

*****

Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
3
Entering Business Level-Operations
    1 - To add a user specified file to the application
    2 - To delete a user specified file from the application
    3 - To search a user specified file from the application
    0 - To go back to the User Interface Interaction
Enter the operations you would like to perform in Business Operation:
0
Enter the action to perform in User Interaction: (1 - Display Instructions)
```

Figure 10: Option 0: (From User Interaction Information)



The screenshot shows a Java application window titled 'Console x'. The main text area displays the following content:

```
*****

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September, 2022

*****

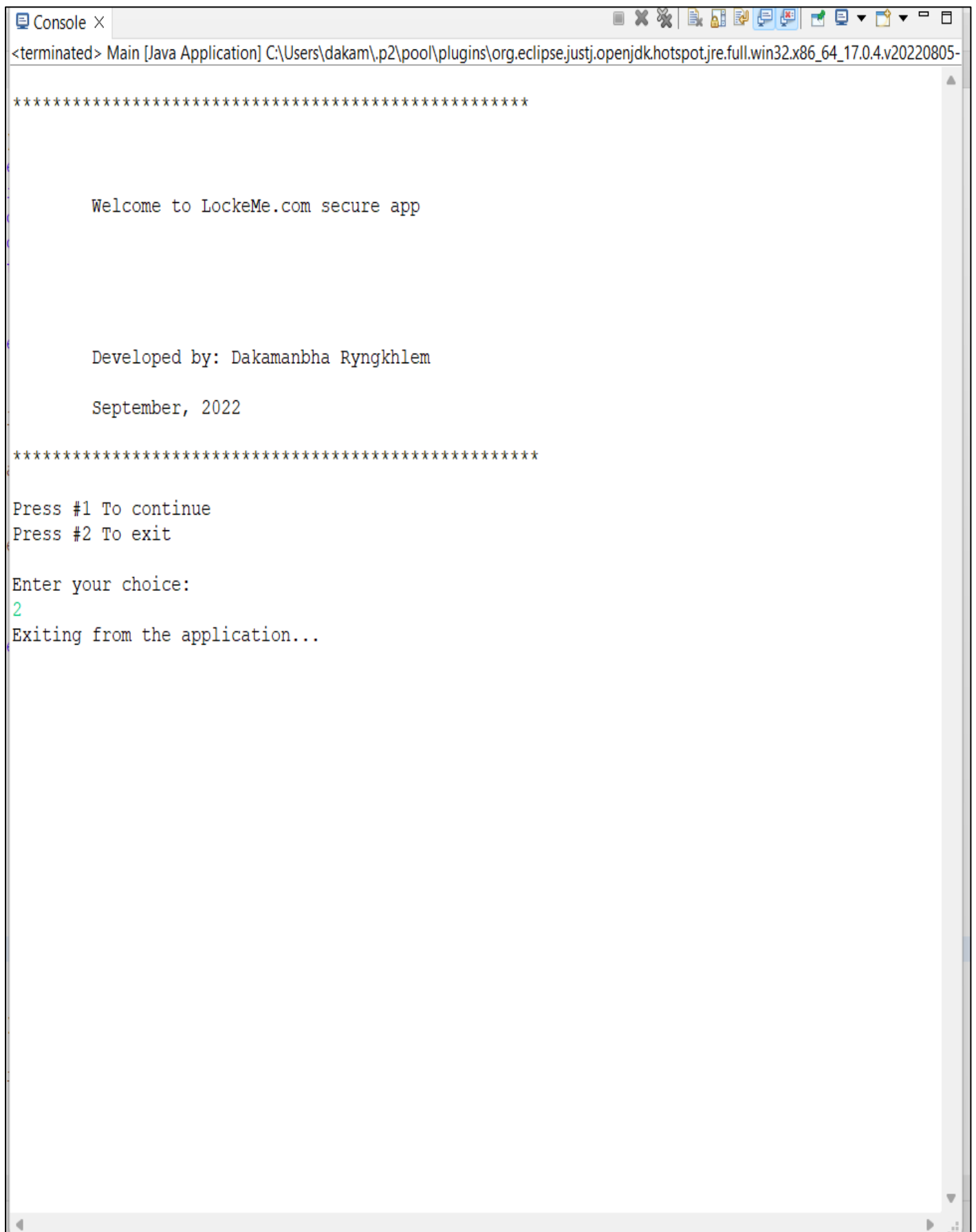
Press #1 To continue
Press #2 To exit

Enter your choice:
1
User Interaction Information
    1 - Display all instructions
    2 - To retrieve the file names in an ascending order
    3 - To enter to Business-level operations
    0 - To go back to the main screen
Enter the action to perform in User Interaction: (1 - Display Instructions)
0
Press #1 To continue
Press #2 To exit

Enter your choice:
```

The application is running in a Java environment, as indicated by the title bar and the file path in the address bar: `C:\Users\dakam\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\java`.

Figure 11: Option 2: (From Welcome Screen)



```
<terminated> Main [Java Application] C:\Users\dakam\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-
*****

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*****

Press #1 To continue
Press #2 To exit

Enter your choice:
2
Exiting from the application...
```