Spring 2020

CSE-5382-001 – Secure Programming

Homework Assignment 11 – Input Validation - Instructions

Name	UTA ID
Goutami Padmanabhan	1001669338

Assumptions :

I have assumed that a latest version of Java has been installed in your machine. I also assume that you have Eclipse IDE installed in your machine.

Dependencies :

You must have the sqlite jar file that I have attached with the code. Please use the same sqlite jar file that I have placed in the submission folder. Please do not modify the contents of the submitted zip folder. I have placed the db file as well.

Instructions :

1. Unzip the submitted folder.
2. Open the command line using cmd and open the directory containing the project in the command line. SecureProgramming\bin
3. Open the project in Eclipse IDE to view the code. SecureProgramming\src\secure
4. Please do not change the contents of the folder submitted. Screenshots of important folders given below.
5. If you want to create a new table in the database provided, you may want to uncomment the lines 40 to 43 in SecureProgramming\src\secure \MainController.java
6. Compile the code with javac *.java. If the compilation does not work, compile each program separately.
    javac MainController.java
    javac PeopleManipulation.java
    javac InputValidation.java

7. MainController.java is the program having the main method. We can add, list, and delete records in the database from the command line using the following commands:

a. java -cp sqlite-jdbc-3.23.1.jar;. secure.MainController ADD "Goutami" "5086567621"

```
D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

ID      Person              Telephone

D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController ADD "Goutami" "5086567621"

The name you entered is valid and matches the standards.

The phone number you entered is valid and matches the standards.

The record you attempted to add was added successfully


D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

ID      Person              Telephone
15      Goutami             5086567621
```

b. java -cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

```
D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

ID      Person              Telephone

D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController ADD "Goutami" "5086567621"

The name you entered is valid and matches the standards.

The phone number you entered is valid and matches the standards.

The record you attempted to add was added successfully


D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

ID      Person              Telephone
15      Goutami             5086567621
```

c. java -cp sqlite-jdbc-3.23.1.jar;. secure.MainController ADD "John Doe" "9876543210"

```
D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController ADD "John Doe" "9876543210"

The name you entered is valid and matches the standards.

The phone number you entered is valid and matches the standards.

The record you attempted to add was added successfully


D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

ID      Person              Telephone
15      Goutami             5086567621
16      John Doe                  9876543210
```

d. java -cp sqlite-jdbc-3.23.1.jar;. secure.MainController DEL "9876543210"

```
D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController DEL "9876543210"

The phone number you entered is valid and matches the standards.

Successfully deleted the record

D:\Gomi\UTA\Spring 2020\CSE 5382 - Secure Programming\Assignments\Assignment 11 Input Validation\SecureProgramming\bin>java
-cp sqlite-jdbc-3.23.1.jar;. secure.MainController LIST

ID      Person              Telephone
15      Goutami             5086567621
```

Screenshots of the contents of important folders:

Unzipped contents from Goutami_Padmanabhan_1001669338_Assignment11_Input_Validation.zip

Name	Type
☐	
📁 SecureProgramming	File folder
📄 Goutami_Padmanabhan_1001669338_Assignment11_Input_Validation_Report	Adobe Acrobat Documer
📄 Goutami_Padmanabhan_1001669338_Assignment11_Instructions	Adobe Acrobat Documer

SecureProgramming folder

Name	Date modified	Type	S
☐			
📁 .metadata	4/29/2020 12:35 AM	File folder	
📁 .settings	4/29/2020 12:34 AM	File folder	
📁 bin	5/8/2020 5:40 PM	File folder	
📁 src	4/29/2020 12:34 AM	File folder	
📄 .classpath	4/28/2020 11:10 PM	CLASSPATH File	
📄 .project	4/28/2020 11:10 PM	PROJECT File	

SecureProgramming\bin

Name	Date modified	Type	S
☐			
📁 secure	5/7/2020 3:25 PM	File folder	
📄 CountryCodes	4/29/2020 1:22 AM	Text Document	
📄 phone_directory	5/8/2020 5:40 PM	Data Base File	
☕ sqlite-jdbc-3.23.1	5/7/2020 12:41 AM	Executable Jar File	

SecureProgramming\bin\secure

Name	Date modified	Type	S
InputValidation.class	5/8/2020 1:11 AM	CLASS File	
MainController.class	5/8/2020 12:15 PM	CLASS File	
PeopleManipulation.class	5/8/2020 12:14 PM	CLASS File	

SecureProgramming\src\secure

Name	Date modified	Type	S
InputValidation	5/8/2020 1:11 AM	IntelliJ IDEA	
MainController	5/8/2020 12:15 PM	IntelliJ IDEA	
PeopleManipulation	5/8/2020 12:14 PM	IntelliJ IDEA	
Phonedata.class	4/28/2020 11:09 PM	CLASS File	
Secured.class	4/28/2020 11:09 PM	CLASS File	
sqlite3.def	4/29/2020 12:03 AM	DEF File	
sqlite3.dll	4/29/2020 12:03 AM	Application extension	
sqlite3	4/29/2020 12:03 AM	Application	
Validation.class	4/28/2020 11:09 PM	CLASS File	