JAC444 Workshop 10: JDBC and GUI Programming

Due on: August 2, 2014 23:59

Value: 2% of final mark

Point: 10

Late Penalty: 10% per day up to 7 days. A one-week delay will result in 0 mark.

PROBLEM DSECRIPTION

You are asked to use Java Swing classes to build a GUI such that a user may request **five operations/commands**. The GUI has a button group of two radio buttons to **connect**¹ and **disconnect**² remote database access. It provides the user with three text fields for adding or deleting the address value, the x-coordinate and y-coordinate of a location. If the user has entered non-numeric values as x-coordinate and y-coordinate, the GUI must catch an exception and display an error message in a message dialog box. It also uses three buttons to perform three operations, namely **add**³, **delete**⁴ and **createReport**⁵. Finally it has a scrollable text area to display all the locations retrieved from a remote database.

You are given the freedom to design the layout of the GUI. The design should be user-friendly (in terms of ease of use) and elegant (in terms of symmetry and colors) if you want to receive grade A or A+.

Coding Requirements

- 1. Your code should include both named inner classes and anonymous inner classes.
- 2. Your JDBC code is not allowed to appear in GUI class; put them in a separate class.
- **3.** You should use System.out.println() in your event handlers to demonstrate that your event handling logic is correct.

Submission Requirements for this Workshop

- 1. Use default packages.
- 2. Your workshop should be submitted as three JAR files.

The first JAR file is named as "ws10-source.jar."

It consists of the Java source files and the ReadMe.txt file for the workshop.

- a) All the Java source files must be documented with brief comments.
- b) In the ReadMe.txt file, you must list all the commands that should be used to compile, package and run your GUI-JDBC application.

(Warning: If I encounter errors in running your application, you will lose 20% immediately.)

The second JAR file is named as "ws10-GUI-JDBC.jar."

It consists of all the class files that must be used to run the GUI-JDBC program.

3. How to submit:

Compress all jar files into a ZIP or 7z file and submit the compressed file onto the Blackboard (where the workshop is posted). The compressed file should be named as lastname.firstname ws10.zip or lastname.firstname ws10.zz.