Family Map Server DAO / Junit Test Assignment

Updated: 2/14/2020

Purpose

The purpose of this assignment is to get you started designing the database portion of your Server. This assignment will provide you with experience in connecting to your database and designing test cases for your DAO classes as part of good programming practices.

Instructions

Before starting anything, please read the specifications for the server carefully and thoroughly. For this assignment, you will implement two DAO classes that each contain 3 methods, and then implement test cases for each method as described below.

DAO classes
- The 2 DAO classes you will show to the TA for pass-off are the **UserDAO class** and the **PersonDAO class**.
- The 3 methods you will implement inside each DAO class will handle **inserting** new data into the table, **retrieving** information from a table, and **clearing** all information from the table.

Junit Test Cases
- For your test cases, create a positive and a negative test case for the **insertion** and **retrieval** methods of each DAO class and a single positive test case for the **clear** method of each DAO class. This means we are looking for a minimum of **10 good quality test cases**, 5 for each of the 2 DAO classes.
- For a positive test case, we want the test case to try using a DAO class method where the SQL operation works successfully. For a negative test case, we want the test case to try using a DAO class method where the SQL operation does not work successfully and check to see that the method handles the problem correctly.

Pass-off

You will be asked to come to the TA's office and present 2 DAO classes with 3 operations in each DAO class (Note: This does not mean that your DAO classes will only have 3 operations in them when you are implementing the full Family Map Server).

When you come to the TA office, have your code either pulled up on a laptop or a lab machine ready to show the TA (1) Your 2 DAO classes and (2) The 10 Junit test cases. Once the TA has reviewed your DAO's and your test cases, you will be asked to run your test cases and show that they all pass. There is no partial credit for this assignment.

When we are passing you off we are looking to see that you understand how to connect to your database using DAO classes, perform SQL operations on your database with the DAO classes, and write test cases to test the functionality of your DAO classes.