

CSE 305 -- Principles of Database Systems

Fall 2018

Third and Final Assignment for the Database Programming Project

Out: 20 Oct. 2018

Due: The time at which your team signs up for its final demo. Demo day is Thursday, Dec. 6th.

This assignment is the culmination of the course project. For it, you must create the final interactive system to support your online auction house web site. Since you should have all the database work completed by this point, this assignment will mainly involve the development of the GUI that allows users to interact with your online auction house web site.

As explained in class, you will be given two options for completing this assignment: 1) You will develop all of the required JDBC, JavaScript, JSP, HTML, and GUI code needed for the user interface. 2) The TA will develop a simplified GUI and provide you with an API that you can use to plug in the Java and JDBC code needed for each transaction. Option 1) requires more work on your part, but in the end you will have developed your own fully functional database system, user interface included. Option 2) is simpler to complete, but you will be reliant on the basic UI the TA has provided.

The rest of this document focuses on Option 1). A forthcoming document will describe Option 2) in detail. To help you with Option 1), a tutorial on using JavaScript for building the GUI for the course project will be posted on Blackboard in the Documents folder.

The grading criteria for the demo will mainly focus on the elegance of your database design and user interface, the simplicity of your database interactions, the completeness of your implementation of the required transactions, and your ability to demonstrate and explain how your system works. Your GUI must provide all classes of users with all the functionality they need to get the job done.

On Monday Dec. 3, 2018, a sign-up sheet will be posted on blackboard. Your team will sign up for a time slot on Thursday Dec. 6, 2018 to demonstrate your system to the TAs and/or myself. All team members must be present for the final demo. Your system must run either on a transaction lab machine, or on a laptop you provide. In either case, you must be able to demonstrate all the functionality of your system during the 30-minute demo timeframe. You should have loaded into your system the demo data that was provided for [Project Assignment No. 2](#). You will be asked to add more data and to carry out several operations/transactions your system should support.

We will also ask you to show us the source code you wrote and to describe how it works. In particular, we will want to see some of the SQL statements you wrote and how they are passed to the DBMS and how their results are retrieved.

Please try to do an excellent job on this assignment, culminating in a fully functional and impressive-looking demo. The three top-rated teams will receive award certificates, which is a very nice thing to put on your resumé. All demos will take place in Room 2110 of the Computer Science Building (the Undergraduate TA suite) and must start on time due to the tight schedule. Arrive 30 minutes early and have your system ready to go when it is your turn.

Good Luck! And we'll look forward to seeing the results of your efforts on your project demo.
