

Homework Assignment 5

Java Servlets / Java Server Pages

ECE 155B – Spring 2009

Due Friday, June 5

In this assignment you will explore Java Servlets / Java Server Pages as a method of augmenting HTML Web pages with dynamic content to create a Web-based Party Planner Service System.

Requirements

This assignment requires that you modify your Party Planner Service System to run using HTML Web pages and Java Servlets / Java Server Pages, using HTTP instead of Java sockets for connectivity between the client and the Party Planner Service. The client is a Web browser that provides the same Graphical User Interface (GUI) but with HTML components (tables, buttons, forms, etc.) and the same functionality of the Party Planner Service. On the server-side, a Java Servlet performs all of the processing that the Party Planner Service requires and provides dynamic content to the clients, such as their parties, client information, facility scheduling, etc. The Java Servlet will connect to the MySQL database using JDBC, as in Assignment 4. You should be able to use the Database class from Assignment 4 without modification. You will continue to use RMI communication between the Party Planner and the caterer, as in Assignment 3. For this assignment, you may choose to use Java Server Pages (which you might find easier to code) to create your Java Servlet.

Optional [10 points]

For extra points, you may also provide a Web interface for the Caterer using Java Servlets / Java Server Pages to enable a Party Planner, acting as client of the Caterer, to check his / her party preparation status. The Party Planner client will submit his / her information using a Web browser, and the Caterer will list the parties for the Party Planner client.

Design Considerations

When developing your Web-based Party Planner Service System, you can organize your code into templates that can be pieced together dynamically by your Java Servlet. This type of implementation can substantially reduce your overall code size. The same types of GUI elements are available in HTML as you used previously and, thus, you can maintain the overall look and feel of your GUI. Feel free to use a Web page template, such as that provided at <http://www.solucija.com/home/css-templates/>

Report

In addition to the program, you will need to submit a small report. The report should be clear, well organized, and concise. It needs to include the following:

- 1) An overview of your Web-based Party Planner Service System using Java Servlets / Java Server Pages
- 2) Details of how your implementation works.

Submission (10%)

You will submit a compressed file (*tar*). You will need to type “*ant submission*” in order to create your submission file. If there is anything missing in the submission file, edit the *build.xml* file to include the missing information. Make sure you modify the *User* property in the *build.xml* file. The *ant* call will create the submission file with the username you provide.

The compressed file should include a folder with all project content necessary to build / run the program (.java, .jsp, README, Report). The projects are to be sent to ece155b.ta@gmail.com with the subject line “Project 05: FirstName LastName”.