

Optional Homework Assignment
Web Services
ECE 155B – Spring 2009
Due: Friday, June 12

This homework assignment is an optional, extra credit assignment, which is due on Friday, June 13. In this assignment, you will use a Web Service that already exists. That is, you do not need to program the Web Service on the server-side. You only need to program the client-side that invokes the existing Web Service. In this case, the client-side is the Party Planner application.

For this assignment, you will add some more functionality to your Servlets /JSP Project. This assignment requires that you use an existing Web Service that is available on the Web. In this assignment you will use the following Web Service:

- Yahoo! Local Search, <http://developer.yahoo.net/search/local/>

Finding the Closest Caterer

Once the Party Planner has received a party request from a client, the Party Planner application will submit the party information to the caterer that is closest to the facility where the party will be held, using an existing Web Service.

You will use the Yahoo! Local Search Web Service to find the location of the caterer. Details on how you use this service are available on the class Web site. When you use Yahoo! Local Search, the response to your query will be in XML format, e.g.,

```
<Title>Creative Services Catering </Title>
<Address>626 De La Vina St228 Carlo Dr</Address>
<City>Santa Barbara</City>
<State>CA</State>
<Zip>93101</Zip>
<Phone>(805) 965-9121</Phone>
<Latitude>34.443437</Latitude>
<Longitude>-119.837422</Longitude>
```

You will parse this XML for the following information:

- *Title*
- *Address, City, State, Zip code*
- *Phone number, if provided*

Once the closest caterer is selected, the Party Planner application will contact that particular caterer with the party information for the client. (You can assume that it is always the same port number at which the Party Planner application submits the party information).

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 usage of an existing Web Service
- 2) Details on how your implementation works.

README File

You are also required to submit a separate README file that describes how to compile and run your program.