

# CSCI-599 Information Integration on the Web

## Homework 7: Heracles

Using the Heracles framework, you will write an application with 4 templates that reuses some of the wrappers that you have already built:

- In the top-level template the user will input an address and a business category and subcategory. You should write a constraint that uses the Geocoder wrapper to obtain the latitude and longitude of the address. Then, three subtemplates will take the geolocated address as input and display relevant information.
- Subtemplate 1 will just show the address and the latitude and longitude. (You have a choice of writing the geocoder constraint in the top-level template or in this template, don't forget to pass the values to other templates).
- Subtemplate 2 will display an image centered at the address using the BuildingFinder wrapper. Show also the address and the corresponding latitude and longitude.
- Subtemplate 3 will query the Yahoo Yellow Pages wrapper for businesses (of the business category and subcategory specified in the top level template) around the given address. Display the resulting business information in a table. Show also the address, and the business category and subcategory.

The homework is due Friday, March 14, 2003 at 5PM. Submit a hardcopy with the code for the templates and a screen shot of each template with an illustrative example. Slide the document under the door of PHE 416.

You can download Heracles from: <http://pegasus2.isi.edu/~public/downloads/heracles/> using the same user name and password as the Theseus download. Download two files:

- HeraclesCS599\_100.exe: this is an InstallShield that will install Heracles in C:\Program Files\Heracles-cs599. The examples seen in class are in the C:\Program Files\Heracles-cs599\template\cs599 directory. You should create a subdirectory of \template called hw7 and put your homework files in it. The top-level template file must be called hw7.xml.
- OracleXquery.zip (optional): This includes a simple file to test XML queries using Oracle XML Query. Heracles uses Oracles XML Query internally. However, for debugging purposes, it is often more convenient to try the queries directly with OracleXquery, since their implementation of the standard is incomplete.