Lab 3. Internet computing in Java – Java Server Pages (.jsp)

Part 1. Exploring internet GIS
1.1 Navigate in MapQuest (addresses, locations, zip codes, …). Is this a thin-client application or thick-client application? What operations can you perform in MapQuest? How do you think these operations are implemented?

1.2 Open ArcCatalog, under "GIS Servers" (left pane), open "Geography Network Services hosted by ESRI". Explore some of the services (image services and feature services). Answer the same questions as 1.1.

1.3 Open http://128.95.212.16:8080/wa_cip1, explore the functions. Answer the same questions as 1.1.

Part 2. A walkthrough for server-side computing – the .jsp approach
Take the JBuilder tutorial: "Creating a JSP using the JSP wizard"
JBuilder Help >> Developing Web Applications >> Tutorials: Web Applications >> Tutorial: Creating a JSP using the JSP wizard

Assignments, due Mon., Jan. 24:
1. Suppose you are writing a thin-client web application that accepts user input of a state name and returns all city names of that state, and the data are stored in an ArcSDE database. Draw a diagram that describes the flow of data (input/output) and the logic required to process the data. A resource for diagramming the sequencing of tasks is located at:
   http://www.agilemodeling.com/artifacts/sequenceDiagram.htm.
2. Recall the code we explored in Lab 2 and describe a thick-client implementation of this function (query cities by state name).