

CS644/IT632/CS397K: Internet Computing with Distributed Components

The due day for all the tasks specified here is October 22, 2006.

Tasks to be completed in Weeks 6 and 7 (10/9 - 10/22):

1. Continue to finish the reading of Chapter 3, starting from page 81, of the textbook. Try out all projects covered in your reading.
2. Read Chapter 5, up to page 178, of the textbook. Try out all projects covered in your reading. (We skip Chapter 4; you only need to reference it when it is necessary)
3. **Assignment 2:** Exercise 2 on textbook page 98. Add extra features to your project if you can (Exercise 2 is only the minimum requirement). Document the features that you implemented. The zip file of your extended Web application folder should be attached to your reply posting to this assignment in the *Discussion Board* forum *weeks6and7*.
4. In course *Discussion Board* forum *Weeks6and7*, reply to each of the following questions:
 - a. Which folders should hold the following files of a Web application (Chapter 3)?
 - i. JSP files
 - ii. HTML files
 - iii. JPEG and GIF files
 - iv. JavaBeans classes used by the JSP files
 - v. Java applet classes (tricky one, you may want to research on it a little bit)
 - b. Can Web browsers access any files under the “WEB-INF” folder of your Web application? (Chapter 3)
 - c. In a JSP page, you can declare an *int* variable “x” with either a *declaration* like “<%! int x; %>”, or as part of a *scriptlet* code like “<% int x; %>”. What is the difference between these two variable declarations in terms of their actual location in the resulting Java servlet class? (Please test a simple JSP file containing these two types of variable declarations in a simple Web application on your standalone Tomcat 5.5.9. After you launch the Tomcat and visit the JSP page, the Java servlet class generated from your JSP page is located under “C:\Tomcat5.5\work\Catalina\localhost\[webAppName]\...\jsp”).

Note:

The objective of assignment 2 is to add functions to the JavaFAQ JSP application in Chapter 3. You can extend its function in any way you like, and reuse or not to use any

resources already in the project. The suggested extension is to allow a user to submit a new question so that the new question will be listed in the list of questions (currently we only have a fixed three questions). When a user clicks on any of the questions, if there is already an answer to it, the answer will be displayed. Otherwise the user will be prompted to enter an answer to that question, and that answer will be saved for future query to it. Of course only the first answer will be saved. You can throw away the existing JSP answer files. Instead you extend the Category class so it will maintain a vector of Question objects, each Question object contains a question string and an answer string. When the user clicks on a question, a fixed JSP page will be used to display either the stored answer string to it, or request the submission of an answer to it. Upon receiving an answer, it will be saved in that question's Question object.

I just outlined one possible extension suggested by the book author. You can extend the application in different ways. The objective is to show off what you have learned about JSP. No matter what kind of extension that you implement, you must document your new functions clearly in a separate file inside your assignment submission zip file.