Developing Fabflix

UCI - CS122B Jamshid Esmaelnezhad April 5th, 2016

Project 2

- ★ Check the project webpage: https://grape.ics.uci.
 edu/wiki/public/wiki/cs122b-2016-spring-project2
- ★ Make sure to understand the design diagram completely.
- ★ If something is not specified in the project specification, it is left for you to make a reasonable decision. For example, navigating to/from the shopping cart page.

1- Configure Tomcat's WebApps Manager

- ★ You installed Tomcat web-server in project 1.
- ★ Now, first we need to configure Tomcat so can we can view the WebApps Manager. Add the following tags to the tomcat-users.xml file:

2- Deploy a Tomcat Application

- ★ Download TomcatTest.war and TomcatForm.war from project2's webpage.
- ★ Use the WebApps manager to deploy each war file.
- ★ When deployed, go to the web app directory and get familiar with the internal structure of a tomcat web application.

3- Learn Tomcat Servlet Basics

- ★ Web app internal structure
- ★ Source code: HttpServlet lifecycle (init() and destroy() methods)
- ★ The lifecycle of a request:
 - GET and POST request methods
 - URL mapping and the web.xml file

4- Understand the Request and Response

PrintWriter out = response.getWriter();

5- Learn How to Navigate Between Servlets

- ★ Learn the difference between redirecting and forwarding http://www.javapractices.com/topic/TopicAction.do?ld=181
- ★ Redirecting a request

```
response.sendRedirect("/example.html");
```

★ Forwarding a request

6- JSP

- ★ Try the jspTest.war example from the website.
- ★ Why is JSP useful?
- ★ How to break the application logic between servlets and JSP files?
- ★ How to share information between Servlets and JSPs?

7- Cookies

★ What is a Cookie?

An <u>HTTP cookie</u> is a small piece of data sent from a website and stored in the user's web browser while the user is browsing.

★ Structure:

- Name and value
- Attributes: (Domain and Path, Expires and Max-age, Secure and HttpOnly)

★ Types:

- 1. Session cookies
- 2. Persistent cookies
- 3. Third-party cookies
- 4. etc.

8- Session

- ★ Check the wikipedia page.
- ★ Working with session key-value pairs
- ★ Any concurrency issues?
- ★ Login/logout use cases of session
- ★ Some useful links on session and cookies:
 - http://www.w3schools.com/js/js_cookies.asp
 - http://www.tutorialspoint.com/servlets/servlets-cookies-handling.htm
 - http://www.journaldev.com/1907/java-servlet-session-management-tutorial-with-examples-of-cookies-httpsession-and-url-rewriting