CSC 415 WEEK 4 COURSE LOG AND MIDTERM STUDY GUIDE

PROFESSOR GODFREY MUGANDA

Here is a list of topics / concepts that you need to understand for the midterm. These are in addition to the topics that you needed to understand for the week 3 quiz.

Java Servlets, the notions of context path and servlet context. HTTP sessions and the three ways of implementing sessions, context attributes, session attributes, and request attributes. Also, the parallel concepts of session scope, request scope, and application-wide scope.

Servlet configuration: the servlet `init()` methods, the `ServletConfig` object, the concept of servlet configuration parameters.

Request dispatchers, the two request dispatcher methods `forward()` and `include()`.

Web listeners and their uses: context listeners, context attribute listeners, request listeners, request attribute listeners, session listeners, session attribute listeners. You need to know what these are and why they are useful to the web developer (or when and why the web developer may want to use them.)

The Web deployment descriptor file.

How file uploads are handled in the browser forms, and how they are handled by servlets. You need to be aware that there is `Part` interface and a request method called `getParts()`, and how these are used. Know some of the most important methods of the `Part` interface: each part has a name, and `Content-Type` header, and there is an input stream that can be used to read the content for the part (usually the contents of a file.) No need to memorize documentation: just remember the main things.

The difference between using `getParameter()` family of methods of the request class and using `getInputStream()` or `getReader()` to read the body of a request.

Buffering of HTTP responses and committing of responses. The fact that you cannot set headers on a request that has been committed.

Be able to define the Model-View-Controller design pattern.