Final Exam Review

LESSON 9 - Ajax

- What is a single page web app?
- Understand all the options of $.ajax() method?
- Ajax calls and how we handle success and fail.
- What is the same domain origin policy ?
- What is the purpose of the data option for the jQuery ajax method?
- What is JSON? How does it relate to XML?

LESSON 10 – Servlets and Web Container

- Servlet container
- Lifecycle
- init and service operations
- Deployment descriptor file (web.xml)
- Thread model

Servlets

- servlet request and response objects,
- request.getParameter,
- doGet and doPost
- Request dispatch vs Redirect

LESSON 11 – Maintaining State

- post vs get message
- Attributes
    - Versus input parameters
    - attribute as name/value pair
    - web container holds attributes for managing state in servlets
    - states correspond to the different scopes for saving state
- State management
    - Request
    - Session
        - session implementation and timeout
    - Context/application
- scope thread safety
- Cookies
    - cookies for server side and client side state management

- o Temporary
- o Permanent
- url rewriting

LESSON 12 - JSP

- JSP lifecycle and JSP-servlet
- Implicit objects
- JSP "elements"
  - o Scriptlet
  - o JSP expression
  - o Comment
  - o Declaration
  - o Directive
  - o Action
  - o EL expression
- Separation of process and view principle
  - o Model 1 architecture
  - o Model 2 architecture (MVC)
    - servlet (controller)
    - POJO (model)
    - JSP (view)
  - o Servlet does in MVC
- Get input params
- Validation
- Insert info to model
- Dispatch the results to JSP
  - o Request object (attributes here)
  - o Response object (headers, cookies .. here)
- POJO does all the business logic and operations
- Should be able to move this with few or no changes to other application environments
- JSP generates the http response using the results in the request object (and possibly response object)

LESSON 13 - JSTL

- What is the purpose of useBean and how we use it?
- JSP Actions, standard actions, JSTL
- Tag attributes, tag body, taglib directive
- Tag class, attribute setters, doTag
- Markup generation

ALL HOMEWORK ARE IMPORTANT