Course Title: Introduction to Struts 2

Course Description:
Struts 2 is an open-source Java application development framework built on the popular Model-View-controller design pattern. The Struts framework jumpstarts web development by providing a reusable infrastructure ("the plumbing") common to well designed dynamic web sites. This course covers the practical knowledge required to build Struts-based applications. Example implementations will be examined and the students will build Struts applications. The student will also have the opportunity to use several open-source tools including Eclipse, Jakarta Tomcat, Ant and Log4j. Struts 2 is the latest version of Struts but it is not just an upgrade to Strut1, it is a completely redesigned architecture that is more in line with current Java web development methodologies.

Course Prerequisite(s):
Java Web Application Development I and knowledge of JSP custom tags

Course Objectives:
1. Be able to effectively use modern web (application) servers.
2. Be proficient in advanced server-side Java programming.
3. Understand the basic components of the Struts Framework (version 1.3)
4. Learn the basic steps required to design, build and maintain a Struts application.
5. Understand, and be proficient in the use of the JSP Filters
6. Gain familiarity in the use of Ant and Log4J.
7. Be able to use HTML, JSPs, Servlets, Struts and database functionality to produce advanced comprehensive dynamic web sites.

Textbook(s):
Struts 2 in Action
Brown, Davis, and Stanlick, Manning Books
ISBN: 978-1933988078

Next Class Possibilities:
Introduction to Spring, Spring MVC, Introduction to Hibernate.

Lesson Plan – by week or session
Session 1: Introduction to Web frameworks, MVC & Struts 2. Setting up Struts
Session 2: Simple Struts examples.
Session 3: Struts Controller, Actions, and Value Stack
Session 4: Struts 2 Tag libraries
Session 5: Struts Interceptors
Session 6: Validation, Tiles, and I18N.