Assignment # 1–Developing a Spring MVC application

Due Date: Week 5

Purpose: By finishing this assignment you will practice to:
- Develop and code a spring app with MVC capabilities.
- Debug and run a spring MVC app.

References: Read the lecture slides week 2 – 4 and lab exercises. This material provides the necessary information you need to complete the exercises.

Instructions and rules:

-This lab should be completed by every student **individually**.
 -You will have to demonstrate your solution in a scheduled lab session and submitting the project **through the assignment link on Blackboard**. You must name your Eclipse project according to the following rule:

Your Name_COMP303_AssignementNumber

Example: John**_COMP303_Assignment1**

Each file submitted in the solution should have student name, student number and submission date in the top of the code file.

Comments may be necessary inside the functions or predicates but that the names of the functions and predicates and the comments you include to explain each are especially important.

Student must hand in the assignment to e-centennial drop box **before in-class demonstration**.

Description

In this assignment, students are asked to develop a spring MVC application by creating the following programs: Configuration files: POM.xml, dispatcher-servlet.xml and web.xml and controller java file, Model java file, JSP view files.

Task 1:

Design a JSP page named "**index.jsp**" that handles a POST request and an action on "**YogaController**" java using a **@RequestMapping**. The page should have "Yoga class registration" form to get user input as shown in this snap shot given in the next page:

Complete this page design with a "Confirm Registration!" submit button and all other html elements (controls) to make this page user friendly with basic validation. Your design should use appropriate layout using div or tables and other formatting features with colors, fonts and styles.

Yoga Class Registration

Your Name

Email Id

Contact Number

Gender

○ Male

○ Female

Age

Batch That fits your timing!

○ Morning: 6:30 to 8:30

○ Morning: 8:30 to 10:30

○ Evening: 4:30 to 6:30

○ Evening: 6:30 to 8:30

Yoga you want to register for!

☐ Anusara

☐ Ashtanga

☐ Bikram

☐ Power

☐ Jivamukti

☐ Kundlini

City

Confirm Registration !

Task 2:

Create a class "**YogaBean.java**" with the appropriate properties and methods to handle the user input data.

Task 3:

Define a "**YogaController.java**" class to get the data from "**index.jsp**" form page and publish the output as the following format in the **pages/view_details.jsp** page.

You should use an unordered list or table to show the registration details.

Welcome John.

Your registration details are as follows:

- **Email Address:** ajohn@yahoo.com
- **Phone Number**: 600-900-8000
- **Gender**: Male
- **Age**: 23
- **Batch**: Evening 4:30 to 6:30
- **Yoga**: Anusara, Power
- **City:** Toronto

**Your online registration completed.
Class will be starting soon.**

Deliverables

1. Your app must include at least the following code files:
   - Controller file – YogaController.java
   - Model file – YogaBean.java
   - View file – view_details.jsp
   - Index.jsp and other jsp files if needed
   - Configuration files – web.xml, dispatcher-servlet.xml and pom.xml
   - Formatting CSS files.

2. The assignment source code (exported and compressed Eclipse project and other necessary files) .zip file format.

Assessment Rubrics:

Functionalities: Developing an app with MVC capabilities including all the files listed in the deliverables. Provide explanation when asked during the demonstration of the app.	75%
Configuration of XML files	5%
UI friendliness (proper layout, colors, fonts, use of CSS)	10%
HTML form controls validations	5%
Code stands, use of variables, comments, and naming conventions.	5%
Total	**100%**

Late submission:

There is a **20% off per day** late penalty which means if a student submits an assignment one day late and does perfect work, the most they can obtain is 80/100.

For example, if a student submits one day late and obtains 8/10 as an assignment then the professor will need to deduct 20% from this grade (8 x .20 = 1.6, 8-1.6 = 6.4/10 - record 6.4). If a student submits two days late then 40% will be deducted, for example, assume the student obtains 9/10 (9 x .40 = 3.6, 9-3.6 = 5.4/10). By day five the student receives zero.

Academic honesty (Plagiarism and cheating)

All students must follow the academic honesty policies regarding Plagiarism and cheating on assignments, Quizzes or Tests. Centennial college's Academic Policy will be strictly enforced. To support academic honesty at Centennial College, all academic work submitted by students may be reviewed for authenticity and originality, with utilizing software tools.

For more details, please visit the Academic Honesty site on
https://www.centennialcollege.ca/mycentennial/your-support/academic-support/student-academic-advising/academic-honesty/