



Centre for Continuing Education

420-P43-AB

EJBs and Frameworks

Class Exercise 2 (Worth: 10%)

Due: July 6th, 2018

Late assignments are not accepted.

This assignment integrates the following competencies:

1. Research and find the required information
2. Read the instructions carefully
3. Specify the information needed
4. Consult and extract the necessary information

Steps required to complete the exercise.

Research and create a report on the followings

1. A software development company is changing from a traditional **SDLC to Agile**. Explain methodology, benefits and how can the developers adapt to this methodology.
2. What is **MVC and explain its architecture**. How it works and benefits project? Find advantages and disadvantages. Include diagrams for your answer.
3. What is **JSP**? What are the different tags in JSP? What are the benefits of using JSP in a project? Compare JSP vs HTML.
4. What is **Maven**? Add screenshots of step by step tutorial of creating a Maven Project in eclipse. Copy and paste pom.xml and explain its code.
5. What are the benefits of using **Spring over J2EE** applications? Also, find some benefits of having **Hibernate** in a project.
6. Complete the program below and show it in the class.

Create an application using Maven, Servlets, JDBC, MySQL database

- Create **User table** in database with username and password for admin and user as admin/admin, user/user.
- **Product Table** for product ID, name and price
- Admin after login (do not hard code username, password; instead check this username and password from the database) can add/delete products to the database from the JSP page. Also, can see the list of all the products on the same page or new page.
- User can login (from database) and see all the products with name and price

Note: This assignment requires you to research online and find best solutions/answers. Write answers in the word file. Your answer should **not more than 20 lines for each question**. However, you can **include diagrams** in the answers to make it clear. Also, don't copy paste the answers directly from the internet. If any student has **plagiarism in their answers, that answer will be marked as 0.**

Submission:

1. Project for question 6 should be Exported as a WAR file for the project with your studentID.war
2. Also, Export project as a zip archive save it on desktop with name studentID.zip. This is for the source code.
3. Answers to first 5 questions of assignment should be written in a word file and save it as PDF with name studentID_firstName.pdf. Follow the text standard given below.
4. ZIP all three files together
5. Submit it online in Assignment 2 in LEA.

Text Standard:

Your submission should have your name and student ID on top of the page.

Don't change header and footer of the word file.

Use font "Arial, size 12" as standard for submission for the textual questions. With single line spacing.