

# Assignment #2

**Due Date: 5/15/17 by 9:00am**

## Deliverables:

- Extend Assignment #1, **to add the features listed below to BestDeal** web-app developed in Assignment #1.
- Use the object-oriented design principles and utilize the MVC architecture discussed in the class to produce an object-oriented web-based enterprise application that is reusable, flexible, and extensible.
- Use **Servlets** to implement the functionalities listed below.
- Record 5 minutes demo (Video and Audio) of your assignment's run using screencast. The tool can be downloaded from this URL <http://screencast-o-matic.com/home>
- Capture most important 10 screen-shots of your output and save them in a file called output.pdf
- All source code and byte code shall be submitted.
- Readme text file that illustrates how to compile/install/run your application
- Post your homework as a single zipped (winzip format only) file online with the name "HW2\_YourLastName,FirstName"
- Please **do NOT hard-code** your name, file path/directory name, or login id in your source-code .... Since I need to install and run your code on a local machine in order to grade your Assignment.

## Important Notes:

- The intent of the provided Code-snippets, Tutorial, and template is to coach you on the thinking of how to build the object-oriented web-based application for the enterprise
- It is your TASK to refactor/reuse the given template to produce REUSABLE/FLEXIBLE/EXTENSIBLE object-oriented web-based application for the enterprise
- NO IDE or SOFTWARE FRAMEWORKS to be used in any shape/form for auto-code generation of the code that will be used in the implementation of your assignment
- Do NOT communicate or share your assignment with others

## High-Level Requirements:

Extend Assignment #1 for the online retailer BestDeal to add the following features:

- All accounts login information must be stored in SQL database (MySQL)
- All Customers transactions/orders must be stored in SQL database (MySQL)
- All order updates to insert/delete/update orders must be reflected in the MySQL database; not only the HashMap objects
- All new code added for MySQL shall be placed in a class called MySQLDataStoreUtilities.java

## Required Features/Functionalities:

Extend Assignment #1 to use MySQL database engine to support the following features/functionalities:

1. Account Management Feature: Use MySQL to store all accounts login information
2. Order/Transaction Management Feature: Use MySQL to store All Customers transactions/orders