

Assignment #1

Due Date: 4/21/17 by 11:59pm

Deliverables:

- Consider the provided **GameSpeed** template to **REUSE, REFACTOR, and FINE-TUNE** its code to build your application for **BestDeal** application for Assignment #1. Please **do NOT blindly copy-&-paste the provided code**, since that will result in getting **ZERO** credit for your Assignment.
- 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 "HW1_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 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:

BestDeal Electronics Retailer

We are the real-deal



Consider the following high-level description for the online retailer

BestDeal:

- The intent is to build servlet-based web application that will allow customers to place orders online from BestDeal website
- Currently, the retailer has the products categories:
 1. Smart Phones
 2. Tablets
 3. Laptop
 4. TV

The following is the high-level description for BestDeal website:

- The intent is to build servlet-based web application that will allow customers to place orders online from BestDeal website
- The store has a StoreManager, Customers, and Salesmen
- The retailers sells different types of products
- The StoreManager can Add/Delete/Update products
- Salesman can create Customer accounts and can Add/Delete/Update customers' orders
- Every product might have accessories that could be bought separately
- Retailer offers warranty that can be purchased by the customer for every console
- The customer must be able to create an account online
- The customer must be able to place an order online, check the status of the order, or cancel the order.
- The customer will pay using a credit card
- Some of the products may have retailer special-discounts
- Some of the products may have manufacturer rebates
- Customer shall be able to shop online to buy one or multiple items in the same session from the BestDeal online retailer.
- In the same session, the customer must be able to add or remove items from the shopping cart
- When the customer chooses to check out:
 1. The customer will enter personal information (Name, Address, Credit Card, etc.)
 2. The customer will be provided with a confirmation number and a delivery date (2 weeks after the order date) that the customer can use to cancel an order at a later timer, though it must be 5 business days before the delivery date.

- Hard-code at least 5 values of every product category available in the store in a HashMap , plaintext file, serialized file, or xml file

Free CSS Template to Reuse



