

Assignment #1

Due Date: 9/22/19 by 11:59pm

Deliverable:

- Use Servlets to implement the following requirements.
- Capture all representative screen-shots of your output and save them in a file called output.pdf
- All source code and byte code must be submitted.
- Use screencast-omatic and record a demo (video + audio) for 5 minutes of your assignment for all feature implemented.
<https://screencast-o-matic.com/>
- Post your homework as a single compressed (winzip only) file on Blackboard with the name
"HW1_YourLastName,FirstName"

Important Notes:

- NO IDE to be used in any shape/form in the implementation of this assignment
- Do NOT communicate or share your assignment with others



Best Deal



High-Level Requirements:

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. TV
 2. Sound Systems
 3. Phones
 4. Laptops
 5. Voice Assistant
 6. Fitness Watches
 7. Smart Watches
 8. Headphones
 9. Wireless Plan
 1. Basic: Unlimited talk, text and data
 2. Premium: The Basic plan with added music and video streaming
 3. Ultimate: The Premium plan with added speed and performance during peak hours

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 has Name, Price, Description and might have accessories that could be bought separately.
- When a product is selected for a view, all accessories associated with that product must be displayed below the product horizontally.

- 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 while implementing and testing your application.

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