

Assignment #4

Due Date: 6/5/17 by 11:59m

Deliverables:

- Extend Assignment #2 and #3, **to add the feature listed below to BestDeal** web-app developed in Assignments: #1, #2 and #3.
- 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 "HW4_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 #3 for the online retailer BestDeal to add the following features:

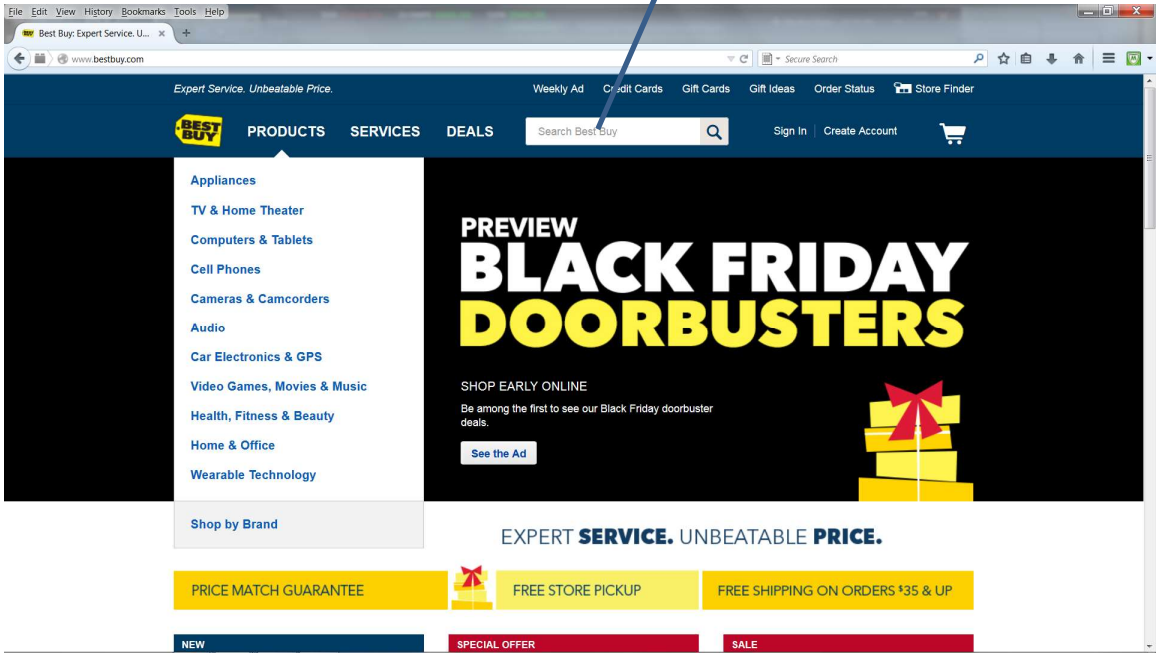
1. **Search Auto-Completion** feature. See below an illustration for a screen-shot of BestBuy web site for the **Search Auto-Completion** feature

Required Functionalities:

1. Implement the auto-completion feature using the servlet technology
2. Your Auto-completion feature shall provide the capability to match and partial-match products names based on the content of the Products HashMap you have populated for your web-app
3. Once the user clicks on any product listed on the popup list of product name matches/partial-matches, your web-app shall display all details about the product selected, and the user must be able to buy, submit a review, read a review, etc (the same functionalities you provided in prior assignments)

1

Textfield is available for users to enter search keywords



2

Once the user starts typing search keyword, a table of potential keyword-matches will be displayed

