Bonus Assignment

(Earn Extra 5 points toward your Final Grade if you choose to work on and submit this assignment.)

Due Date: 6/2/17 by 11:59pm

Deliverables:

- Extend Assignment #3, to add the feature listed below to BestDeal web-app developed in Assignment #1, Assignment #2, and Assignment #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 <u>Servlets</u> 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 "Bonus_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

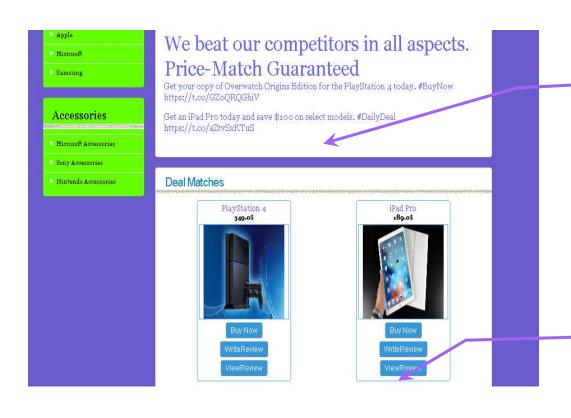
High-Level Requirements:

Extend Assignment#3 to add the Deal Match feature.

Required Functionalities:

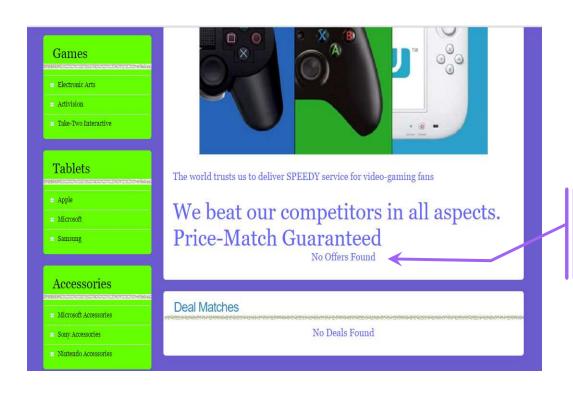
See below an illustration for a screen-shot of BestDeal web site for the required **Deal Match** feature

- Use the python script provided to create the **DealMatches.txt**File
- The python script will connect to Twitter server in order to get the current deals of BestBuy under the screen_name
 BestBuy_Deals
- The python script will connect to MySQL server for BestDeal app in order to get the list of products
- The python script will compare the product names retrieved from MySQL server to the products names retrieved from screen_name BestBuy_Deals on Twitter server and it will write the tweets that have the products names that match the product names retrieved from MySQL server in the product table into DealMatches.txt file.
- When BestDeal app is started by Tomcat server, it will read ANY
 2 Tweets/lines from DealMatches.txt file and display them on
 BestDeal app homepage along with links to the individual products
 that BestDeal app can match of the offered/displayed deals by
 BestBuy on the homepage of BestDeal app.
- All new code added for this feature shall be placed in a class called DealMacthes.java



Display the tweets for products that matches with best buy Products

Display the respective products that are available in best buy tweets



If no data for any product found in best buy twitter account display no offers found