Assignment #5

Due Date: **11/21/17 by 9:00am**

Deliverable:

- 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 10 minutes demo 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 file on Blackboard with the name "HW5_YourLastName,FirstName"

Important Notes:

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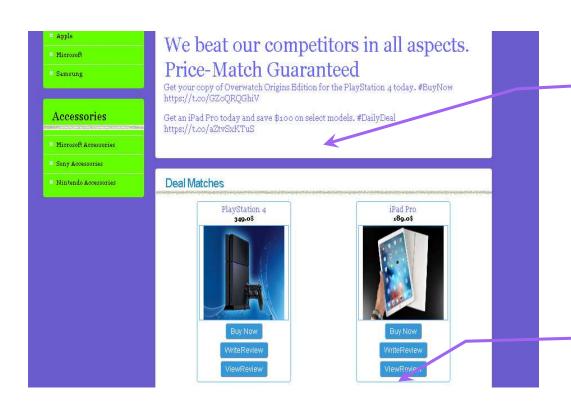- Do NOT communicate or share your assignment with others

High-Level Requirements:

Extend **Assignment#4** to add the **Deal Match** feature.
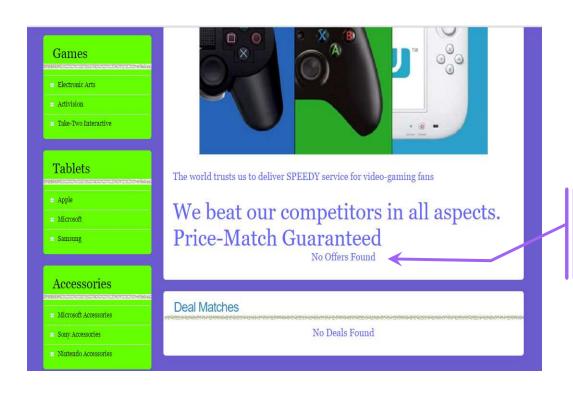
Required Functionalities:

See below an illustration for a screen-shot of SmartPortables 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 **SmartPortables 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 **SmartPortables app** is started by **Tomcat server**, it will read ANY 2 Tweets/lines from **DealMatches.txt** file and display them on SmartPortables app homepage along with links to the individual products that SmartPortables app can match of the offered/displayed deals by BestBuy on the homepage of SmartPortables app.
- All new code added for this feature shall be placed in a class called **DealMacthes.java**

Screenshot 1

Sidebar
- Apple
- Microsoft
- Samsung

Accessories

- Microsoft Accessories
- Sony Accessories
- Nintendo Accessories

Main content
We beat our competitors in all aspects. Price-Match Guaranteed

Get your copy of Overwatch Origins Edition for the PlayStation 4 today. #BuyNow https://t.co/GZoQRQGhiV

Get an iPad Pro today and save $100 on select models. #DailyDeal https://t.co/aZtvSxKTuS

Deal Matches

PlayStation 4	iPad Pro
349.0$	189.0$
Buy Now	Buy Now
WriteReview	WriteReview
ViewReview	ViewReview

Annotation: Display the tweets for products that matches with best buy Products

Annotation: Display the respective products that are available in best buy tweets

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Screenshot 2

Sidebar
Games

- Electronic Arts
- Activision
- Take-Two Interactive

Tablets

- Apple
- Microsoft
- Samsung

Accessories

- Microsoft Accessories
- Sony Accessories
- Nintendo Accessories

Main content
The world trusts us to deliver SPEEDY service for video-gaming fans

We beat our competitors in all aspects. Price-Match Guaranteed

No Offers Found

Deal Matches

No Deals Found

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