Assignment #5

Due Date: **11/22/20 by 11:59pm**

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
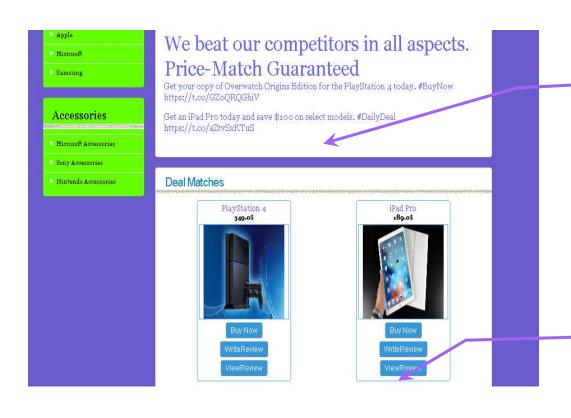- Do NOT communicate or share your assignment with others

High-Level Requirements:

Extend **Assignment#4** to add two the following two features:

1. **Deal Match Guarantees** feature.
2. **Recommender feature**

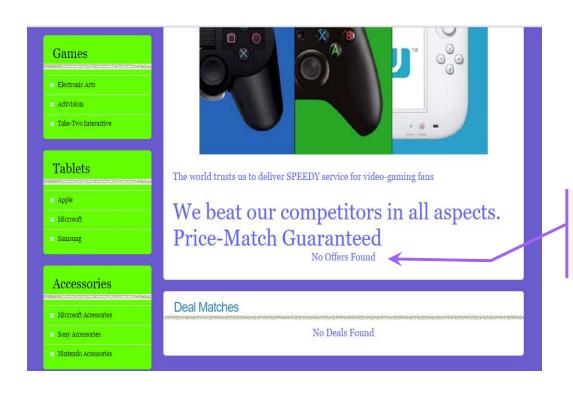## Required Functionalities for Deal Match Guarantees Feature:

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**

Screen 1 (top)

Microsoft

Samsung

Accessories

Microsoft Accessories

Sony Accessories

Nintendo Accessories

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Price-Match Guaranteed

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https://t.co/GZoQRQGhiV

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

Deal Matches

PlayStation 4
349.0$

Buy Now

WriteReview

ViewReview

iPad Pro
189.0$

Buy Now

WriteReview

ViewReview

Display the tweets for products that matches with best buy Products

Display the respective products that are available in best buy tweets

Screen 2 (bottom)

Games

Electronic Arts

Activision

Take-Two Interactive

Tablets

Apple

Microsoft

Samsung

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

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Price-Match Guaranteed

No Offers Found

Accessories

Microsoft Accessories

Sony Accessories

Nintendo Accessories

Deal Matches

No Deals Found

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

Required Functionalities for Recommender Feature:

Based on the history of the user purchases and the transactions table that you created in the prior assignment and after the user makes a purchase, your enterprise web application, shall make three product recommendations for the logged in user, see below an illustration.

Your recommendation must exclude products that are **returned** and transactions that are **disputed**

Output:

If I login as a user (e.x – Snehal) and add a product to the Cart, it shows me Recommended products in the carousel which can be added to the Cart or can be Reviewed as well.

The application recommended the following products after the purchase.