

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 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 "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**

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