Homework 8: Responsive Web Design
Stock Search using Markit on Demand & Facebook Mashup
(Bootstrap/JQuery/AJAX/JSON/Cloud Exercise)

Total Points: 10

Basic Search Form (1 point in total)
- The initial webpage with all form fields as described. Clear Button, Search Button and the Markit on demand logo with a link to the Markit homepage (0.25 points)
- The initial carousel with the default favorite list and all the three features: Auto Refresh, Refresh and Display Stock Information (disabled initially) (0.25 points)
- HTML5 and JQuery validation for the search input (0.5 points) both use cases given in the homework description.

Design (0.5 point in total)
- All the components (text, font, borders, tooltips and bootstrap components) were properly placed. – 0.5 points

Result Display (8.5 points in total)
Favorite List (1 point in total)
- The table with all valid data and the styles. – 0.25 point
- Automatic Refresh should refresh data every 5 seconds. – 0.5 point
- Refresh, navigate to stock information should work as per the description. – 0.25 points

Current Stock (4.5 points in total)
- The table with the current stock information – 1 point
- The layout and style should be mimicked as close as possible and responsive. – 0.75 point
- The Yahoo chart with correct values and size should be placed properly in the tab – 1 point
- Favorite button – 0.5 point
  - Should add or remove favorite based on the description, changing the CSS of the button (color of the star) – 0.25 points
  - Should also refresh the entry in the favorite list – 0.25 points
- Facebook button – 1.25 point
  - Authorize the user to facebook if the user is not already logged in. - 0.25 points
  - Post the Stock Information to a user’s News Feed – 1 point
- Display the correct message as Company Name and Price. Together with this you need to give the description which should include the price and change. – 0.25 points
- Stock image from Yahoo charts – 0.25 points
- Working link to Markit on Demand – 0.25 points
- Successful/Failed Message after posting. – 0.25 points

**Historical Charts (2 point in total)**
- Should display the proper chart with all the needed buttons
- No extra buttons and features should be visible other than what was depicted in the description.

**News Feed (1 point in total)**
- All layout and style should be mimicked as close as possible and responsive – 0.5 points
- All the data should be properly loaded. – 0.5 points

**Use of GAE/AWS**
- PHP script must be deployed on GAE/AWS. Implementing the assignment by using the Apache + PHP on cs-server.usc.edu instead of GAE/AWS will result in a penalty of 4 points. To allow the graders to perform this test, an additional link should be added to the list of homework, with a format similar to the following:
  - [http://example.appspot.com/?[listing_the_parameters_and_sample_values]](http://example.appspot.com/?[listing_the_parameters_and_sample_values])
  - Or
    - [http://example.elasticbeanstalk.com/?[listing_the_parameters_and_sample_values]](http://example.elasticbeanstalk.com/?[listing_the_parameters_and_sample_values])

  This link would guide graders to a page where it displays the JSON data wrapped in your PHP file running on the Google App Engine/Amazon AWS.
- Implementing API access to MarkitOnDemand using JavaScript instead of PHP (cross-domain using the “hack”, JSONP or CORS) will result in a penalty of 5 points.

**Additional Requirements**
- The program must work in Firefox and Chrome
- All the results should be displayed in the same window as the search form.
- The page must be responsive. If not you will have a penalty
- The window should not reload for any kind of data request. All transactions are asynchronous.