Homework 6: Server-Side Scripting

Grading Guidelines

Graders will test your homework **on Firefox and Chrome**.

Total Points: 10

Grading Guidelines:

Search Form (**1.0 points in total**)
- The initial webpage with proper fields in the search form, along with "Stock Search" header. (**0.5** point)
- Mandatory fields validation for the search input (**0.5** point)
- "**Clear**" button clears input textbox and all the search results. (**0.5** point)
  - If your page fails to clear the search form or the previous result table, 0.5 point will be deduced
- The "**Search**" button, the page maintains the previous input values (**0.5** point)
  - If your page fails to maintain the original input value, 0.5 point will be deducted

Search Results (**9.0 points in total**)
- **Display stock information table**: (**2.0** points)
  - Showing the stock information retrieved and calculated from Web Service in **tabular format** as described in the homework description (**1.5** point)
    - 0.5 point will be deduced for every field displaying incorrect **value or format**.
  - Handling the case when the Alpha Vantage API returns no matching result (**0.5** point)

- **Display the stock quote/volume/indicator charts**: (**5.0** points)
  - Display chart title with correct name and date in correct format (**1** point)
    - If the title text is not correct, **0.5** point will be deduced
    - If the title date for stock quote is not correct or not in correct format, **0.5** point will be deduced
  - Display stock quote in correct value and format (**1** point)
    - If the quote doesn't show correct value, **0.5** point will be deduced
    - If the quote is not rounded to two after decimal point, **0.5** point will be deduced
    - If the quote interval is not by day, **0.5** point will be deduced
    - If the X-Axis ticker's interval is not by week, **0.5** point will be deduced
    - If the range is not past six months, **0.5** point will be deduced
    - If the area below series line is not filled with red color, **0.5** point will be deduced

o   Display volume in correct value and format (**1** point)
   o   If the volume doesn't show correct value, **0.5** point will be deduced
   o   If the volume is not shown in white column bar, **0.5** point will be deduced
   o   If the volume interval is not by day, **0.5** point will be deduced
o   Display indicators in correct value and format (**2** point)
   o   If the indicator doesn't show correct value or misses any field for the multi-fields indicators, **0.5** point will be deduced for **each indicator**
   o   If the indicator's interval is not by day, **0.5** point will be deduced for **each indicator**
   o   If the X-Axis ticker's interval is not by week, **0.5** point will be deduced for **each indicator**
   o   If the Y-Axis title doesn't show correct acronym, **0.5** point will be deduced for **each indicator**
   o   If the range is not past six months, **0.5** point will be deduced for **each indicator**

● **Display the stock news**: (**2.0** points)
   o   Display toggle button for news table (**1.0** point)
      o   If button doesn't toggle table correctly, **0.5** point will be deduced
      o   If button doesn't show correct arrow or text, **0.5** point will be deduced
   o   Display stock news table (**1.0** point)
      o   If the news title doesn't hyperlink to the correct news, **0.5** point will be deduced
      o   If there is missing publication time after title, **0.5** point will be deduced

IMPORTANT
● You should not call the Alpha Vantage APIs directly from JavaScript, bypassing the Apache proxy, except for the Indicators. Similarly, you should also not call the Seeking Alpha XML RSS feed directly from JavaScript. Doing either this will result in **8.0** point penalty.
● If JQuery is used, **4.0** point will be deducted.
● You should implement hw6 in a single PHP file. If multiple files are submitted, **3.0** point will be deducted.

Source code submission:
Students should submit their source electronically to csci571 account so that it can be graded by graders and compared to all other students' code via the MOSS code comparison tool. In addition, on your course homework page, you **must** update HW6 link to refer to your new hw6 PHP page.