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 deducted
- 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 deducted 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 deducted
    - If the title date for stock quote is not correct or not in correct format, 0.5 point will be deducted
  - Display stock quote in correct value and format (1 point)
    - If the quote doesn’t show correct value, 0.5 point will be deducted
    - If the quote is not rounded to two after decimal point, 0.5 point will be deducted
    - If the quote interval is not by day, 0.5 point will be deducted
    - If the X-Axis ticker’s interval is not by week, 0.5 point will be deducted
    - If the range is not past six months, 0.5 point will be deducted
    - If the area below series line is not filled with red color, 0.5 point will be deducted
● Display volume in correct value and format (1 point)
  o If the volume doesn’t show correct value, 0.5 point will be deducted
  o If the volume is not shown in white column bar, 0.5 point will be deducted
  o If the volume interval is not by day, 0.5 point will be deducted

● 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 deducted for each indicator
  o If the indicator’s interval is not by day, 0.5 point will be deducted for each
    indicator
  o If the X-Axis ticker’s interval is not by week, 0.5 point will be deducted for
    each indicator
  o If the Y-Axis title doesn’t show correct acronym, 0.5 point will be deducted for
    each indicator
  o If the range is not past six months, 0.5 point will be deducted 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 deducted
    o If button doesn’t show correct arrow or text, 0.5 point will be deducted
  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
      deducted
    o If there is missing publication time after title, 0.5 point will be deducted

**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.