Homework 6: Server-Side Scripting

Grading Guidelines

Graders will test your homework **only on Firefox.**

Grading Guidelines:

Search Form (**2.5 points in total**)
- The initial webpage with proper fields in the search form, along with "Stock Search" header. (**1.0** point)
- **HTML5 validation** for the search inputs (**0.5** point)
- "**Clear**" button clears input textbox and 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

PHP script (**7.5 points in total**)
- **Result table**: (**2.5** points)
  - Showing the company lookup information retrieved from Lookup 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 (incorrect mapping).
  - Handling the case when the Lookup API returns empty result set (**1.0** point)

- **Display the stock information correctly**: (**5.0** points)
  - Display Change in correct format (marker) (**0.5** point)
    - If the value is not rounded to two decimal point, **0.5** point will be deducted
    - If the proper arrow is not displayed, 0.5 point will be deducted
  - Display Change Percent in correct format (% and marker) (**0.5** point)
    - If the value is not rounded to two decimal point, 0.5 point will be deducted
    - If the percentage symbol is not displayed cut, 0.5 point
    - If the proper arrow is not displayed, 0.5 point will be deducted
  - Display Timestamp in correct format (YYYY-MM-DD HH:MM AM/PM) (**0.5** point)
    - If the timestamp is not displayed in the correct form, 0.5 point will be deducted
  - Display Market Cap in correct format (B) (**0.5** point)
    - If the unit B is not displayed cut 0.5 point will be deducted
    - If the value is not rounded to two decimal point, 0.5 point will be deducted

- o Display Volume in correct format (e.g., 9,876,543) (**0.5** point)
    - o If the number is not formatted with the thousand operator, 0.5 point will be deduced
- o Display Change YTD in correct format (parentheses and marker) (**0.5** point)
    - o If the value is not rounded to two decimal point, 0.5 point will be deduced
    - o If the parenthesis is not displayed, 0.5 point will be deduced
    - o If the proper arrow is not displayed, 0.5 point will be deduced
- o Display Change Percent YTD in correct format (% and marker) (**0.5** point)
    - o If the value is not rounded to two decimal point, 0.5 point will be deduced
    - o If the percentage symbol is not displayed cut, 0.5 point
    - o If the proper arrow is not displayed, 0.5 point will be deduced
- o Display Last Price, High, Low, and Open in a correct format (**0.5** point)
- o 1.0 point will be deduced for <u>every</u> field displaying incorrect value (incorrect mapping).
- o Handling the case when the quote API returns "FAILURE" status (**1.0** point)

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.