Final Project Proposal

1. Data Sources - New York Stock Exchange Symbol Lists (from A to Z)
   a. http://www.eoddata.com/symbols.aspx
   b. http://www.eoddata.com/stocklist/NYSE/B.htm
   c. http://www.eoddata.com/stocklist/NYSE/C.htm
   d. http://www.eoddata.com/stocklist/NYSE/D.htm
   e. http://www.eoddata.com/stocklist/NYSE/E.htm
   f. http://www.eoddata.com/stocklist/NYSE/F.htm
   g. http://www.eoddata.com/stocklist/NYSE/G.htm
   h. http://www.eoddata.com/stocklist/NYSE/H.htm
   i. http://www.eoddata.com/stocklist/NYSE/I.htm
   j. http://www.eoddata.com/stocklist/NYSE/J.htm
   k. http://www.eoddata.com/stocklist/NYSE/K.htm
   l. http://www.eoddata.com/stocklist/NYSE/L.htm
   m. http://www.eoddata.com/stocklist/NYSE/M.htm
   n. http://www.eoddata.com/stocklist/NYSE/N.htm
   o. http://www.eoddata.com/stocklist/NYSE/O.htm
   p. http://www.eoddata.com/stocklist/NYSE/P.htm
   q. http://www.eoddata.com/stocklist/NYSE/Q.htm
   r. http://www.eoddata.com/stocklist/NYSE/R.htm
   s. http://www.eoddata.com/stocklist/NYSE/S.htm
   t. http://www.eoddata.com/stocklist/NYSE/T.htm
   u. http://www.eoddata.com/stocklist/NYSE/U.htm
   v. http://www.eoddata.com/stocklist/NYSE/V.htm
   w. http://www.eoddata.com/stocklist/NYSE/W.htm
   x. http://www.eoddata.com/stocklist/NYSE/X.htm
   y. http://www.eoddata.com/stocklist/NYSE/Y.htm
   z. http://www.eoddata.com/stocklist/NYSE/Z.htm

2. challenge score self-assessment: **8**

3. What I want to do:
   a. using BeautifulSoup (and Flask maybe) to crawl and scrape the NYSE stocks data to provide users 5 or more most valuable stocks that need to pay attention to today, and build user watch list
   b. interactive interface:
      i. ask whether have specific stock you want to add to your watch list
      ii. if no, present top 5 to 10 stocks that worth paying attention to today
         1. users can add listed stocks to their watch list (cache data to JSON file)
      iii. if yes, ask users to type in the stock symbol; if no in symbol lists, print error, and ask users to type in again
      iv. store the stock symbol to users' watch list
      v. (still not think through well) ask whether to present the graph of stock that users want to check