**Assignments (including code) must be committed to Bitbucket by the end of class on the due date (commit early and often). Failing to commit by the end of class on the due date will result in a 0.**

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**Description:**

This website will allow people to create their own account in which they can pick a variety of stocks, after which the portfolio will be optimized for them. It will show them the daily returns and other data that they may want to see as well as stocks they can buy to make their portfolio better. It will NOT have any real money involved.

1. **Daily Stock/Company Valuation and Portfolio Optimization (100 Points):**
   * ***User Created Portfolio Accounts (35 Points):***
     + Users can create accounts associated with their portfolio (5 points)
     + Accounts are password protected (5 points)
     + Users can see real stock information of their portfolio (5 points)
     + Users can pick a number of stocks for their portfolio (10 points)
     + Users can liquidate their portfolio in its entirety (5 points)
     + Users can change their password when they want (5 points)
   * ***Optimizing (25 Points):***
     + Users’ portfolios are optimized based on daily returns of stock (10 points)
     + Users can rank their portfolio’s stocks based on return (10 points)
     + Users can see the day’s biggest earners for stocks (5 points)
   * ***Visualization (5 Points):***
     + Users can see their portfolio data through stock plots (5 points)
   * ***Best Practices (5 Points):***
     + Code is well formatted and easy to read, with proper commenting (3 points)
     + Code passes HTML validation (2 points)
   * ***Usability (5 Points):***
     + Using site is easy and intuitive with information available(4 points)
     + Site is visually appealing (1 point)
   * **Approved by TA (5 Points)**
   * **Creative (20 points)**

Approved by Wentao Wu