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| **Accountabilibuddy** | **Date:** 2 /14 / 2017  **Name:** George Nassour | Evaluation criteria:  1. Innovation (2)  2. Complexity (2)  3. Completeness(3)  4. Practicality(3) |
| Team 5 |
| |  |  |  | | --- | --- | --- | | **Team Member** | **E-mail** | **Role/Responsibility** | | George Nassour | [George.nasour.673@my.csun.edu](mailto:George.nasour.673@my.csun.edu) | Back-End Programming / Group Director | e-mail | Role/Responsibility | | Muhammad Ansari | Muhammad.ansari.137@my.csun.edu | Front-End Programming / Graphic Design | e-mail | Role/Responsibility | | Benjamin Overton | Benjamin.overton.467@my.csun.edu | Front-End Programming / Graphic Design | e-mail | Role/Responsibility | | Hrag Ayvazian | Hrag.ayvazian.793@my.csun.edu | Back-End Programming / Graphs, Algorithms | e-mail | Role/Responsibility | | Pierre Azar | [Pierre.azar.34@my.csun.edu](mailto:Pierre.azar.34@my.csun.edu) | Front-End / Back-End Programming |  |  | | | |
| **Problem Statement (What problem it solves? Or, what feature does it improve?):**  The app serves to simplify the decision of whether to invest in a particular stock or not. Many people do not understand the intricacies behind the stock market and economy and end up succumbing to bad investments. Many people also do not have a detailed understanding of math or statistics to analyze data in order to make better judgements. The program will eliminate these uncertainties by providing the answer and data to the user directly. | | |
| **Measure of Success (How will you know you have achieved your goal?):**  When the app is capable of providing users with the best likelihood of profiting from investing in stocks, then the app will be successful. Although the app, like anything, cannot completely predict the future, leaving behind the possibility of bad luck and external worldly factors that could negatively affect the future of a stock. However, as long as the app can satisfyingly bridge the knowledge gap and predict the expected increases and decreases in stock value mostly correctly, then the app completes its purpose. On top of investment prediction, the app should also clearly display stock trending history and data in a way that even beginners to the stock market game can easily understand and process the data. | | |
| **Identify Interoperability Requirements:**  The Program retrieves stock history and data from ETrade’s public API database. ETrade provides its own Java Software Development Kit with its own set of methods that we will utilize to get the program to communicate with the API. The program will be connected to a database in SQL Lite order to store and easily retrieve user account information and saved settings.  **Describe system functions:**  The user operates the program through the provided GUI which displays individual pages at a time. The user navigates through these pages. Planned pages include the login screen, the stock listing home page, and each specific stock’s information page.  Within the code of the program, each individual page and function is made as its own class so that modifications made to specific functional elements do not end up interfering with or breaking other working elements.  **Describe the system’s architecture:**  Database – SQL Lite  GUI Interface – JavaFX  Back-End – Java | | |
| **Proposal (How will your device solve the problem described, or improve the feature selected?):**  The program provides valuable historic trending data for specific stocks and advises users on whether those stocks would be worth investing in or not. The data for these stocks are already readily available through multiple popular stock market websites such as Yahoo Finance or ETrade. The program will utilize the publicly provided API from these websites in order to provide its own simplified presentation and graphs in order to display the information simply and explicitly to the user. The calculations for the incline and decline of stocks will be calculated using basic calculus and statistics for which we have assistance for from economics students at CSUN. The visual presentation of the data and the style of the graphs will be as simplified and clear as possible in order to achieve the program’s goal. | | |