Portfol.io

PREPARED FOR

CS 408 Class Project

PREPARED BY

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Design Defect Log

Product	Buy / Sell Stock Card		
Date	10/09/2018		
Author	Kyle Brown		
#	Description	Severity	How Corrected
1	Initially had the buy and selling card as only one card, which made it confusing for the user to know if they were buying or selling the current stock	2	Have a toggle to say if they want to buy or sell instead of both
2	Initially had only a button to add to watchlist and no button to remove.	3	Made it to where the respective button renders correlating to that stock's existence in your watchlist

Product	Watchlist		
Date	10/10/2018		
Author	Riley Robertson		
#	Description	Severity	How Corrected
1	Originally the watchlist would have only a price and symbol for the stock.	2	Get the percent a stock has increased/decreased for the day along with price and symbol.

Product	Countdown Timer		
Date	10/09/2018		
Author	Jeremy Putnam		
#	Description	Severity	How Corrected

1	The timer was originally a clock plug in which showed the time in a 00:00:00 format, but this did not display days	3	Added in a custom countdown timer which displays the days, hours, minutes, and seconds until a game starts/ends

Product	Leaderboard History Graph		
Date	10/09/2018		
Author	Jeremy Putnam		
#	Description	Severity	How Corrected
1	Originally the leaderboard was supposed to appear in the leaderboard table, but it caused too many issues when being added to the table.	3	A modal is opened when the graph is displayed of the user's history.

Product	Trending Stocks		
Date	10/11/2018		
Author	Eric Thiem		
#	Description	Severity	How Corrected
1	The trending stock page only showed the daily trending stocks but there was no way to switch to weekly.	2	Added button to switch to the weekly display of trending stocks as well as all-time.

Inspection Defect Log

Product	As an investor, I would like to be able to buy a specified quantity of stock that I am currently on		
Date	10/10/2018		
Author	Kyle Brown		
Moderator	Walter Jacquette		
Inspectors	Riley Robertson		
Recorder	Eric Thiem		
#	Description	Severity	How Corrected
1	Comparison in an if the statement was comparing a string with a number to check how many stocks they were buying	2	Convert the string to a number
2	Was setting the initial quantity when switching from buy and sell to be 1 instead of 0	1	Changed the default value of the number input

Product	As an investor, I would like to be able to sell a specified quantity of stock that I currently own		
Date	10/10/2018		
Author	Kyle Brown		
Moderator	Eric Thiem		
Inspectors	Riley Robertson		
Recorder	Jeremy Putnam		
#	Description	Severity	How Corrected
1	Input validation if the statement had bad logic making the error message show up sometimes when it was not needed	2	Changed the and's to or's
2	Saving variables into variables then not using them	1	Removed useless variables

Product	As an investor, I would like to have a list of my stock watchlist and current prices		
Date	10/10/2018		
Author	Riley Robertson		
Moderator	Walter Jacquette		
Inspectors	Kyle Brown		
Recorder	Eric Thiem		
#	Description	Severity	How Corrected
1	Watchlist was displaying all decimal places	3	Truncated number
2	Watchlist was not displaying a plus sign (+) for positive percent change	3	Made a check for if the number was positive and added in the plus sign (+)

Product	As an investor, I would like to be able to add a stock to my watchlist		
Date	10/10/2018		
Author	Riley Robertson		
Moderator	Walter Jacquette		
Inspectors	Kyle Brown		
Recorder	Eric Thiem		
#	Description	Severity	How Corrected
1	Statement to set boolean was running before needed statements had	2	Switched the code around and made it run how it needed to
2	Certain if statement that decided whether a boolean was set to true or false was setting true in both conditions	2	Set second conditional to set it to false

Product	Backend Data Retrieval
Date	10/10/2018
Author	Jake Koontz

Moderator	Riley Robertson		
Inspectors	Walter Jacquette		
Recorder	Jeremy Putnam		
#	Description	Severity	How Corrected
1	historyController was a misleading name for the class that contained all the schedules	3	Renamed the class to scheduler
2	All code in scheduler was being run from the same method	2	Split the functions into separate methods for readability and performance
3	The stock API was being called each time a stock was encountered when updating portfolio values	2	Added a cache to store stocks and reduce API calls

Product	Backend Data Retrieval		
Date	10/10/2018		
Author	Walter Jacquette		
Moderator	Kyle Brown		
Inspectors	Jake Koontz		
Recorder	Riley Robertson		
#	Description	Severity	How Corrected
1	Data to stock page provided in a format that caused the front end to pick the wrong current price to display.	2	Change the ordering of the data sent to stock page.
2	No check to not add a game to the completed_games array if it has been added once.	3	Add a check to make sure the game wouldn't be added multiple times.
3	Useless promises when making a game inactive (not needed since this isn't an api call)	3	Remove the code that should not run.
4	Check against Dates in stock calls no longer necessary with new Stock API	3	Remove the checks that prevent the stocks from being within a certain date range since the API does this for us.

Product	As an investor, I would like to be able to click on a user on the leaderboard and see a graph of their portfolio's value		
Date	10/7/2018		
Author	Jeremy Putnam		
Moderator	Riley Robertson		
Inspectors	Kyle Brown		
Recorder	Jake Koontz		
#	Description	Severity	How Corrected
1	The leaderboard was not including unspent money in total assets	2	Added the unspent money to the total assets
2	The graph was missing the first and last data points	2	Fixed an off-by-one issue in a for loop
3	A server call to get total assets was happening asynchronously but only occasionally caused issues	2	Added an "await" check to make sure the call was made before moving on

Product	As an investor, I would like to have a list of my currently owned stocks and current prices		
Date	10/10/2018		
Author	Jeremy Putnam		
Moderator	Jacob Koontz		
Inspectors	Riley Robertson		
Recorder	Kyle Brown		
#	Description	Severity	How Corrected
1	The stock name is too large to fit normally in the table	3	Added the stock symbol to the table instead
2	The loop to generate stocks uses the index from another for loop to display the stocks, and the table sometimes misses a stock.	2	Created a separate index just for the stocks to make sure all of them are displayed

Product	Countdown Timer		
Date	10/6/2018		
Author	Jeremy Putnam		
Moderator	Kyle Brown		
Inspectors	Walter Jacquette		
Recorder	Jacob Koontz		
#	Description	Severity	How Corrected
1	The state which holds the timer is not a date object and results in an incorrect timer	2	Convert the state from a string to a date object before performing calculations
2	The timer does not handle the transition to the completed game and starts counting up.	1	Have a trigger to make sure the game ends when the timer hits zero
3	Switching games keeps the previous game timer	2	Recalculate the time remaining each time a game switches
4	The loop generating the timer does not have null checks if the server is disconnected	2	Added a null check to not include a timer if the server is not connected

Product	As an investor, I would like to be able to view a list of the trending stocks over the past day and week.		
Date	10/12/2018		
Author	Eric Thiem		
Moderator	Kyle Brown		
Inspectors	Walter Jacquette		
Recorder	Jacob Koontz		
#	Description	Severity	How Corrected
1	The daily buy counts are not updating with new stock purchases.	1	Fixed backend calls from the buy stock button to correctly update this variable.

2	Trending stocks are not displayed in correct descending order.	1	Changed sort method and return method for getting the top ten trending stocks.
3	Clicking on stocks does not take you to that stock's page from the trending list.	2	Added onClick method to take you to that stock's page
4	Trending page does not show the stock's current price	3	Added new field in table to show current price and new field in backend to store it

Testing Defect Log

Product	Buy Stock Card		
Date	10/11/2018		
Author	Kyle Brown		
#	Description	Severity	How Corrected
1	When user inputted 0 quantity it would buy 0 stocks, basically a no-op but still needs to save the call	1	Added a check at the beginning of the method to check for 0
2	When user input negative numbers the input would accept them	2	First added an if check to make sure the number would not be submitted unless <= 0 and made it impossible to input a negative into the field

3	When a user tries to buy too many stocks than they can afford, the app would not tell them why it failed	3	Add a pop up modal that tells them the reason the buy did not go through

Product	Sell Stock Card		
Date	10/11/2018		
Author	Kyle Brown		
#	Description	Severity	How Corrected
1	Calculation of total price was off because of a rounding error	2	Change the rounding to be handled by the javascript approach rather than my own (I was truncating on accident)
2	Sell Card was saying "Buying Price" even when on the sell card	1	Switch the value of price to say sell.

Product	Watchlist		
Date	10/10/2018		
Author	Riley Robertson		
#	Description	Severity	How Corrected
1	Button for the watchlist not rendering the other button after clicked.	2	Changed it to reference a state instead of a method return
2	Using state to fix Defect1 caused asynchronous issue with the state.	2	Changed it to set the variable in a method that was already being ran and flipping the variable instead of recalculating on click
3	Correction for Defect2 then caused an issue where it would not re-render the correct button for a newly searched stock without a page refresh	2	Moved methods/variables upward into the re-rendering of a new stocks variables in

			order to pass down needed booleans to rendering correctly

Product	My Stocks Table		
Date	10/11/2018		
Author	Jeremy Putnam		
#	Description	Severity	How Corrected
1	Total assets was being displayed instead of just total stocks	2	Subtract buying power from the value being displayed in the table
2.	The total value of a given stock was not being calculated correctly	2	The same current value of a stock was being used to calculate every single stock, so it was instead chosen correctly per stock.
3.	Total assets was a couple dollars short of what it should have been	2	Removed intermediate rounding
4.	Stock would reappear from previous games when switching to another game	2	Reset the state which contains stocks in it each time a new game is opened

Product	Leaderboard Performance Graph		
Date	10/9/2018		
Author	Jeremy Putnam		
#	Description	Severity	How Corrected
1	The graph wouldn't display any users' history	1	Converted the data into the correct form so the graph could read it
2.	The graph only displayed the current user's history	2	All users' data is retrieved when getting the history from the database
3.	All users' graphs displayed when one user was clicked	2	A new function was added to manage each user's own row when it is clicked

#	Description	Severity	How Corrected
4.	The graph crashed the page when it tries to display data from previous months when it is not there	1	Added in null checks when the data is not available

Product	Countdown Timer		
Date	10/11/2018		
Author	Jeremy Putnam		
#	Description	Severity	How Corrected
1	Time until game started was increasing instead of decreasing	2	Subtract the current time from the starting time to get remaining time
2	Going to a completed game locked the timer into saying every game was completed	2	Remove the line where the counter was stopped when a completed game was found and added a new check
3	The game counter stated the game was ending when it hadn't start yet	2	Changed if statement to check if the game has started yet
4.	The game counter would go negative once the game started	2	Perform a check to see if the game began and reset the timer

Product	NodeJS Server		
Date	10/11/2018		
Author	Walter Jacquette && Jake Koontz		
#	Description	Severity	How Corrected
1	Calculation of total price was off because of a rounding error	2	Change the rounding to be handled by the javascript approach rather than my own (I was truncating on accident)
2	Sell Card was saying "Buying Price" even when on the sell card	1	Switch the value of price to say sell.
3	The schedule was not running on the specified interval	2	Remove the seconds parameter from the call

#	Description	Severity	How Corrected
4	Buying power was able to have large decimal values	3	Round the buying power before writing to the database
5	Portfolio value was being generated with many decimal places	3	Round the portfolio value before writing to the database
6	Users can buy stocks even if they don't have enough buying power	2	Check the total price of the purchase before allowing it to go through
7	Users can sell stocks that they don't own	1	Check the user's currently owned stocks before allowing the sell to go through
8	Stock API was not returning data reliably	1	Changed to a better API
9	The back end was not returning the correctly formatted data to the graphs	1	Reformatted history data before sending it to the front end
10	The all stock call now provides too many data points and crashes the HighCharts framework with the new API.	1	Need to scrap the 'All' call for now until an alternative presents itself.
11	No check to not add a game to the completed_games array if it has been added once.	3	Add a check to make sure the game wouldn't be added multiple times.
12	Batch Stock Call ran using the old API instead of the new one, which results in data far different than expected.	1	Update the URL to match the new API.
13	Could only get 5 stock calls per minute due to limitations on the old API that we used	1	Use a new API (IEXtrading) so that we can make more calls per minute.

Product	Trending Stocks		
Date	10/12/2018		
Author	Eric Thiem		
#	Description	Severity	How Corrected
1	Trending stocks showed in an incorrect order	1	Changed sorting algorithm to correctly check which stocks

			had the most daily and weekly buys.
2	User unable to switch between daily and weekly trending stocks	2	Changed backend organization to correctly switch between daily and weekly trending stocks.
3	Table values for trending stocks not lining up with labels	3	Fixed front end table values