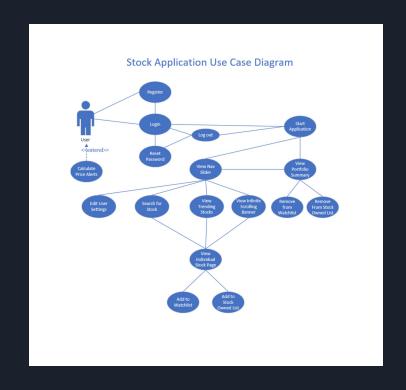# Stock Application

Derek Brown, Alyssa Drohan, Phillip Gil-Perea, Jarrett Horton, Isaiah Johnson, Russell Quao, Isaac Silvious
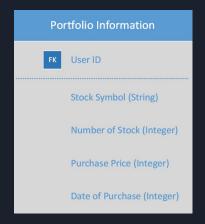
The Purpose

- For a user to be able to view, track, and add to their stock portfolio.
- The Portfolio Summary will allow the user to see their net worth, portfolio growth, and stock diversity.
- The user can add stocks to their stocks owned list or to their watchlist.
- With the stocks they have put in their owned list, the user can track their portfolio growth as well as calculate how much profit they could make if they were to sell at that moment in time.
- Each stock will display the stock price, volume, dividend, earning, P/E ratio, and news about a specific stock.
- With the Stock Application, there will be a trending stocks page where it will use an algorithm based off some of the users' preferences, in order to truly define what is trending for the week.

Use Case Diagram

Stock Application Use Case Diagram
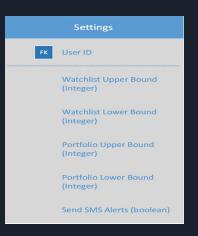
Database Tables

Registration

PK User ID

Password (String)

Currency Code (String)

Phone Number (String)

Email (String)

Portfolio Information

FK User ID

Stock Symbol (String)

Number of Stock (Integer)

Purchase Price (Integer)

Date of Purchase (Integer)

Watchlist Information

FK User ID

Stock Symbol (String)

Settings

FK User ID

Watchlist Upper Bound (Integer)

Watchlist Lower Bound (Integer)

Portfolio Upper Bound (Integer)

Portfolio Lower Bound (Integer)

Send SMS Alerts (boolean)
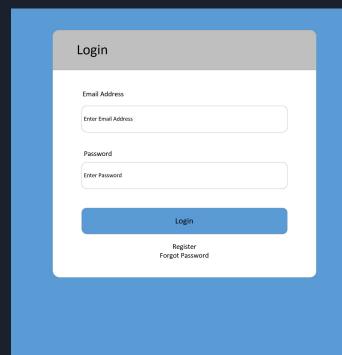
Timeline

Stock Application Time Line

ID	Use Case	Start	Finish	Duration	Jan 2018				Feb 2018				Mar 2018				Apr 2018				
					12/31	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4	3/11	3/18	3/25	4/1	4/8	4/15	4/22	4/29
1	Register	1/8/2018	1/12/2018	1w		▨																
2	Log In	1/15/2018	1/19/2018	1w			▨															
3	Log Out	1/15/2018	1/19/2018	1w			▨															
4	Reset Password	1/15/2018	1/19/2018	1w			▨															
5	Start Application	1/22/2018	1/26/2018	1w				▨														
6	Edit User Settings	1/29/2018	2/2/2018	1w					▨													
7	View Navigation Slider	1/29/2018	2/16/2018	3w					▨▨▨													
8	View Portfolio Summary	2/5/2018	2/16/2018	2w						▨▨												
9	Search for Stocks	2/5/2018	2/23/2018	3w						▨▨▨												
10	Add to Stock Owned List	2/19/2018	2/23/2018	1w								▨										
11	Add to Watchlist	2/26/2018	3/2/2018	1w									▨									
12	Remove from Stock Owned List	3/5/2018	3/9/2018	1w										▨								
13	Remove from Watchlist	3/12/2018	3/16/2018	1w											▨							
14	View Trending Stocks	3/19/2018	3/23/2018	1w												▨						
15	View Individual Stock Page	3/26/2018	3/30/2018	1w													▨					
16	Calculate Price Alerts	4/2/2018	4/6/2018	1w														▨				
17	View Infinite Scrolling Banner	4/9/2018	4/13/2018	1w															▨			

Login GUI

Login

Email Address

Enter Email Address

Password

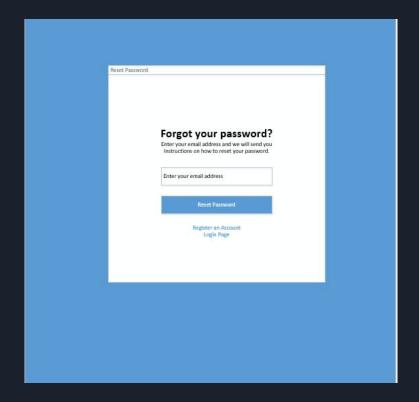Enter Password

Login

Register
Forgot Password

Register GUI

Forgot Password GUI

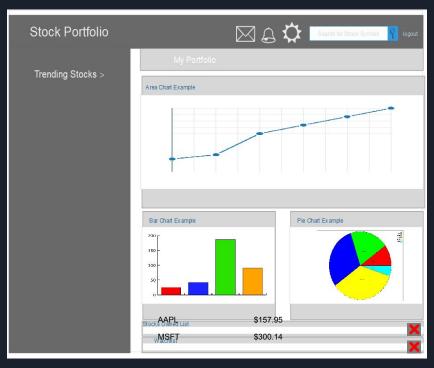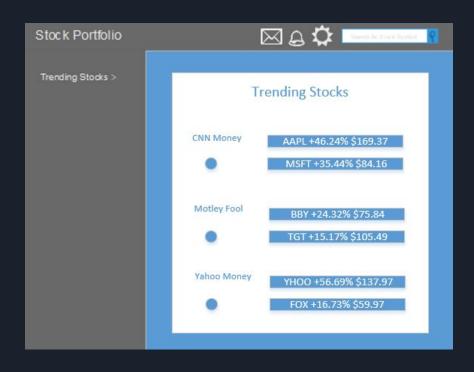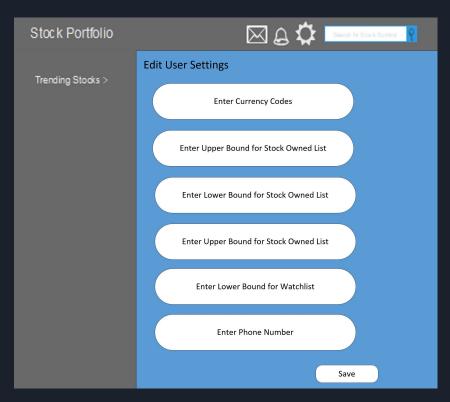# Portfolio Summary GUI

Trending Stocks GUI

Edit User Settings GUI

View Individual Stock GUI