

# Stock Market Investment Fantasy League

## User Documentation



(app icon)

## Group 1

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### Project URL

<https://github.com/rkellerman/Stockers>

Software Engineering

14:332:452

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Stockers provides this User Guide in order to help new user get acquainted with the application. This guide is for users with little to no prior experience in Stockers.

## 1.0 Getting Started

To run the Stockers application in its current state, the user must download an android emulator. This User Guide will use Android Studio's Nexus 5 Emulator.

### 1.1 Installing Android Studio

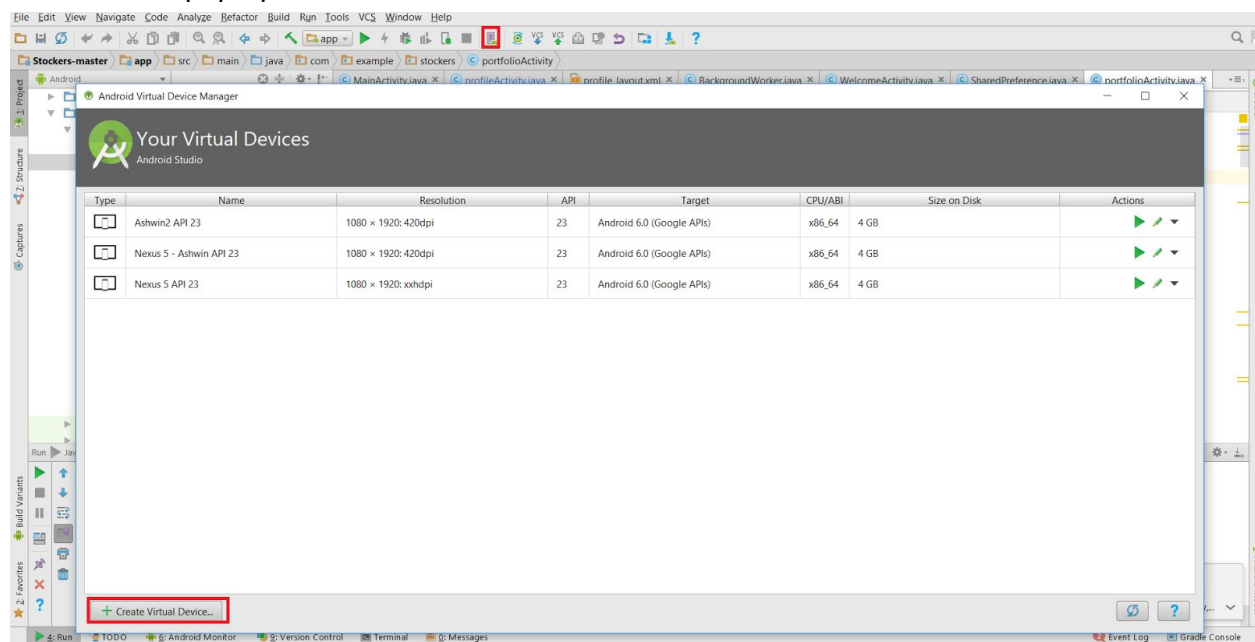
The user must download Android Studio from the website.

Android Studio -

([https://developer.android.com/studio/index.html?gclid=Cj0KEQjwту3GBRDY6ZLY1erL44EBEiQAAKlcvhJK-rC59nBkeEiqBPD2RqQtIlFNgE\\_uHIV3afyC3-8aAqs48P8HAQ](https://developer.android.com/studio/index.html?gclid=Cj0KEQjwту3GBRDY6ZLY1erL44EBEiQAAKlcvhJK-rC59nBkeEiqBPD2RqQtIlFNgE_uHIV3afyC3-8aAqs48P8HAQ))

### 1.2 Creating an Emulator

To create an emulator, click the AVD manager icon in the top toolbar highlighted below. On the bottom of the pop-up window click create new device.



Use the Nexus 5 Emulator and use Android OS Marshmallow - 6.0.

## 1.3 New Project

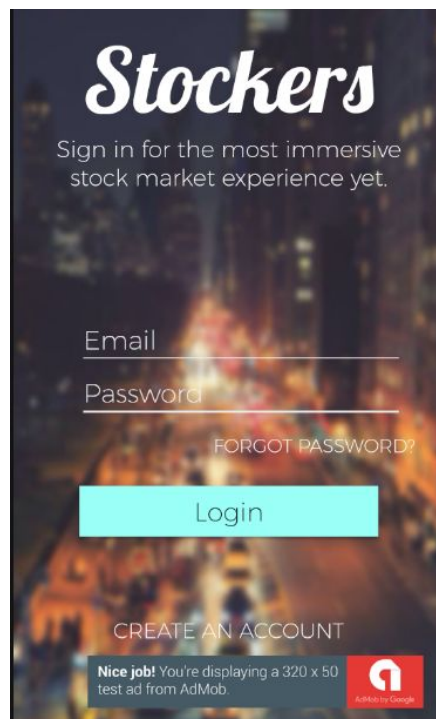
In Android Studio, the user must create a new project and use the folder we have provided within this parent directory. To create the project click *FILE>NEW>IMPORT* and import the project folder we have provided.

## 1.4 Running the Application

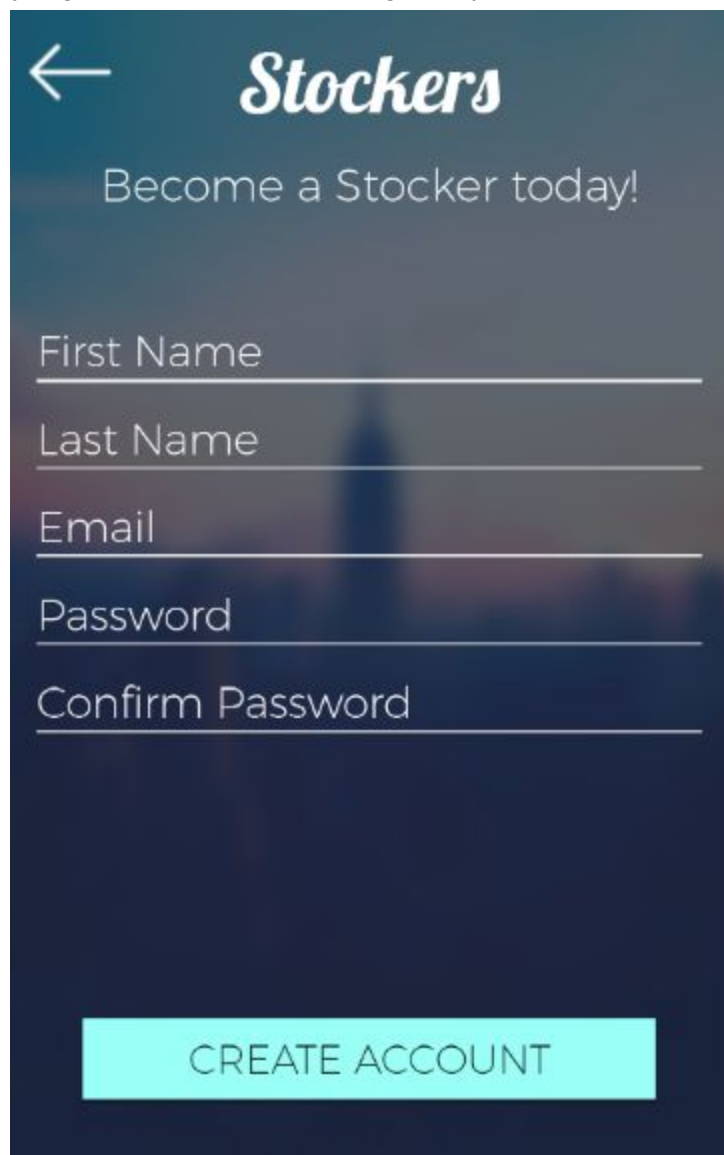
After the application has downloaded, you can run the application by looking in the emulator for the application.

## 2.0 Register / Login

When the application launches on the emulator, the Login page will be displayed(shown below).

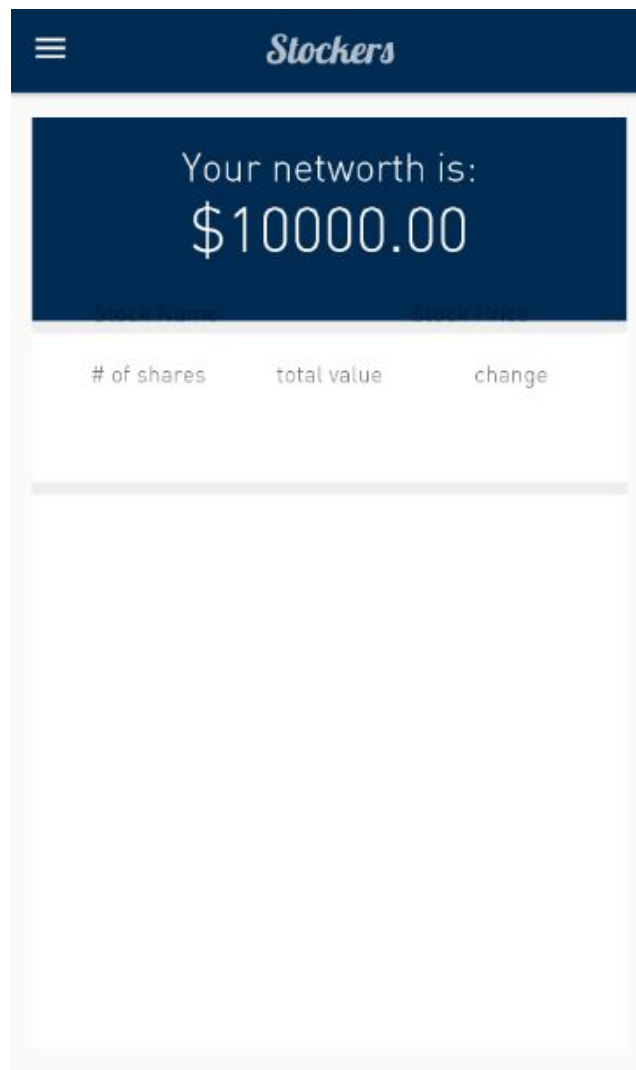


1. If the user already has an account, they must input the login credentials they registered with.
2. If the user does not have an account, they must press "CREATE AN ACCOUNT" to register an account with Stockers. They will then be directed to the register page(shown below) where they must fill in:
  - a. First Name
  - b. Last Name
  - c. Email
  - d. Password
  - e. Confirm Password
3. Once the account has been created the user will be directed to the login page. Login with the newly registered account. The Login may take a few seconds.



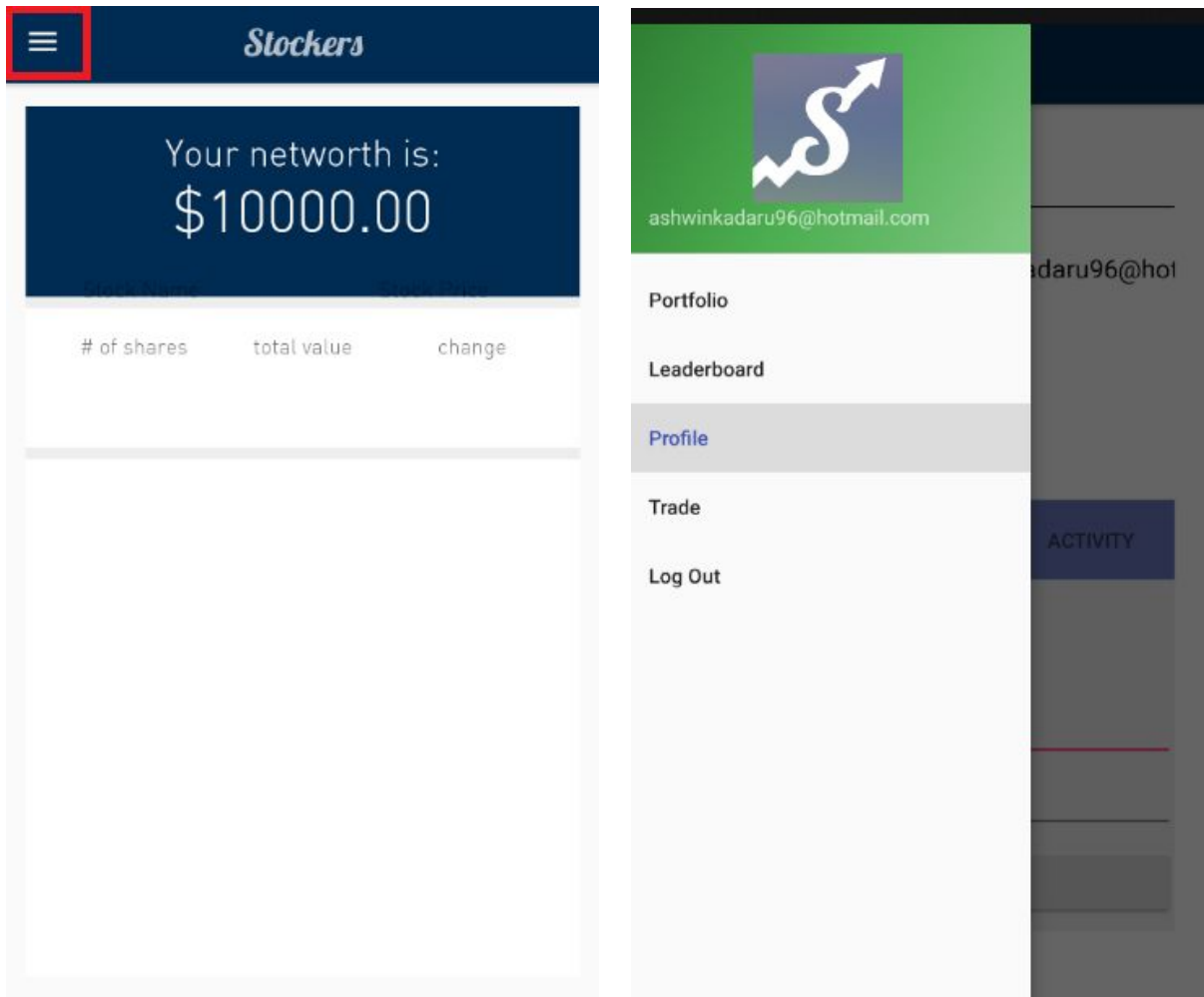
The image shows a mobile app registration screen for 'Stocker's'. At the top left is a white back arrow. To its right is the app name 'Stocker's' in a white, stylized script font. Below the app name is the text 'Become a Stocker today!' in a white sans-serif font. The form consists of five white text input fields stacked vertically, each with a white underline: 'First Name', 'Last Name', 'Email', 'Password', and 'Confirm Password'. At the bottom of the screen is a large, solid red rectangular button with the text 'CREATE ACCOUNT' in white, uppercase, sans-serif font.

4. Once successfully logged in, the “My Portfolio” page will be displayed and the user can see their current net worth at \$10,000.



## 3.0 Navigation Bar

Stockers utilizes a side navigation bar that pulls from left to right. To open the navigation bar, press the Navigation Button on the top left of ANY page.



## 4.0 Performing a Transaction

To perform ANY transactions, the player must navigate to the “Trades” page via the Navigation Bar. Players in Stockers can buy and sell stocks given the following requirements:

1. The stock that is searched for exists.
2. The user has sufficient funds to purchase the stock.
3. The user has sufficient number of stocks to sell the stock.

The trades page is shown below.

Stockers

Spending money: \$10000.00

Enter Ticker

SEARCH

Name Of Stock

Price	(price)	P/E	(P/E)
52 week	(52 week)	Div/Yield	(Div/Yield)
Open	(Open)	EPS	(EPS)
Vol	(Vol)	Change	(Change)
Mkt Cap	(Mkt Cap)	Inst. own	(Inst. own)

Market Order

Enter # of shares here

BUY

SELL

## 4.1 Searching for Stocks

To search for a Stock, type the stock ticker symbol in the search bar on the “*Trades*” page, and press “Search”.

Stockers

Spending money: \$10000.00

AAPL

SEARCH

Apple Inc.

Price	143.80	P/E	17.26
52 week	89.47 - 144.04	Div/Yield	2.28
Open	140.89	EPS	8.33
Vol	33374805	Change	+2.92 - +2.07%
Mkt Cap	754.45B	Inst. own	0

Market Order 

Enter # of shares here

BUY

SELL

After searching for the stock, the current stock information will be displayed.

## 4.2 Buying a Stock

To buy a stock the user must search for a stock by ticker symbol, enter the number of shares they want to purchase, and click “BUY”.

1. If the user does not have sufficient funds, an error message will be displayed.
2. If the user has sufficient funds, a success message will be displayed.
3. If the stock has been successfully purchased, the user navigate to their “*My Portfolio*” page via the side navigation bar to see changes to their portfolio.



<div> <div></div> <div>Stockers</div> </div>		
<div> <div>Your networth is:</div> <div>\$10000.00</div> </div>		
# of shares	total value	change
<div>AAPL</div> <div>20 Shares</div>	\$2876.00	<div>\$143.8</div> <div>+2.07%</div>

## 4.3 Selling a Stock

Selling a stock in Stockers is similar to buying a stock. The user must follow predefined steps listed below:

1. Navigate to the “*Trade*” page
2. Search for the stock that they want to sell.
  - a. They must also own this stock.
3. Enter the number of shares they want to sell and press Sell.
4. If the user does not have efficient shares an error message will be displayed

5. If the user has sufficient shares the changes from the transaction will be reflected in the leaderboards page and the portfolio page.

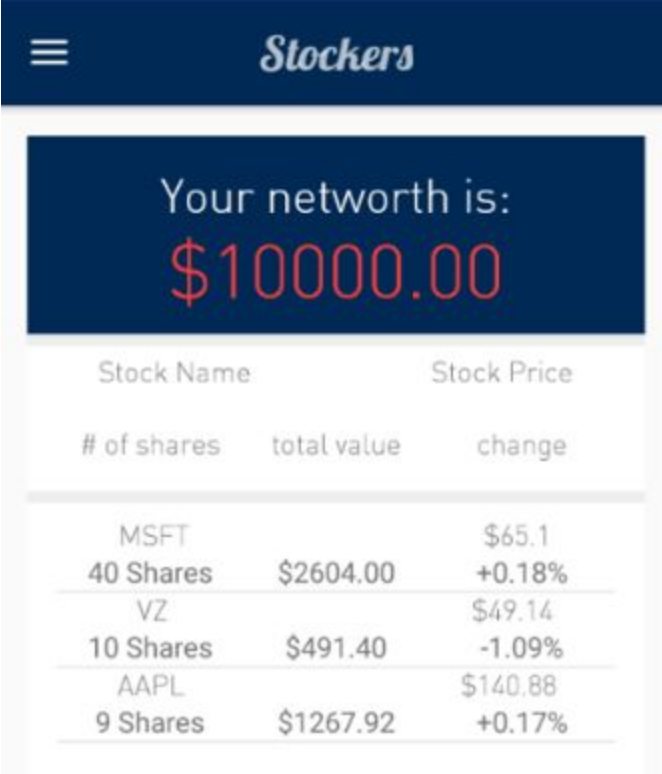
## 5.0 Managing Your Portfolio

The user can view changes and monitor their account through the “*My Portfolio*” page. Navigate to the “*My Portfolio*” page via the side navigation bar.

### 5.1 View Network

The net worth will be displayed at the top of the “*My Portfolio*” page.

1. If the net worth is red, then the user has a negative net gain in relation to the starting \$10,000 the user starts with.
2. If the net worth is green, then the user has a positive net gain in relation to the starting \$10,000 the user starts with.



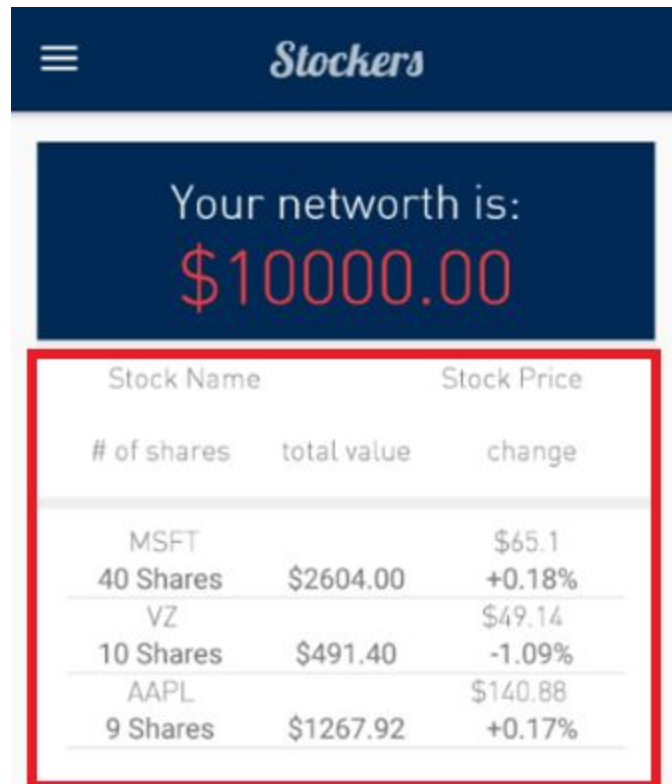
Stock Name		Stock Price	
# of shares	total value	change	
MSFT		\$65.1	
40 Shares	\$2604.00	+0.18%	
VZ		\$49.14	
10 Shares	\$491.40	-1.09%	
AAPL		\$140.88	
9 Shares	\$1267.92	+0.17%	

## 5.2 View Stocks You Own

In the “*My Portfolio*” page under the Net worth is a list of the user’s owned stocks. The list will display the following:

1. The Stock Name
2. # of Shares
3. Total Value
4. Change
5. Stock Price

Whenever the user logs in, they can navigate to their portfolio page to see current stock information.



The screenshot shows a mobile application interface for 'Stockers'. At the top is a dark blue header with a hamburger menu icon and the word 'Stockers' in a white serif font. Below the header is a dark blue box containing the text 'Your networth is:' followed by '\$10000.00' in a large, red, monospace-style font. Below this is a table with a red border. The table has three columns: 'Stock Name', '# of shares', and 'total value'. The first row shows 'MSFT' with '40 Shares' and a 'total value' of '\$2604.00'. The second row shows 'VZ' with '10 Shares' and a 'total value' of '\$491.40'. The third row shows 'AAPL' with '9 Shares' and a 'total value' of '\$1267.92'. To the right of the table, the 'Stock Price' column shows the current price for each stock: '\$65.1' for MSFT, '\$49.14' for VZ, and '\$140.88' for AAPL. Below the price, the percentage change is shown: '+0.18%' for MSFT, '-1.09%' for VZ, and '+0.17%' for AAPL.

Stock Name	# of shares	total value	Stock Price	change
MSFT	40 Shares	\$2604.00	\$65.1	+0.18%
VZ	10 Shares	\$491.40	\$49.14	-1.09%
AAPL	9 Shares	\$1267.92	\$140.88	+0.17%

## 6.0 Viewing the Leaderboards Page

The user can navigate to the “*Leaderboards*” page via the side navigation bar.

The leaderboards page will display:

1. The rank of all investors in Stockers
2. The name of the investor
3. The Net Worth of the investor
4. **Note: Currently the Filters are non-functional**

The screenshot shows a mobile application interface for 'Stockerz'. At the top is a dark blue header with a hamburger menu icon and the word 'Stockerz' in a white script font. Below the header, the word 'Leaderboard' is displayed in a large, bold, grey script font. Underneath, there is a 'Filter By:' label followed by two grey buttons: 'TOP INVESTOR' and 'MY FRIENDS'. The main content is a table with three columns: 'Rank', 'Investor', and 'Net Worth'. The table lists seven investors, with the first investor, Frank Velazquez, having a net worth of \$10165.39, and the last investor, Ashwin Kadaru, having a net worth of \$10000.00.

Rank	Investor	Net Worth
1	Frank Velazquez	\$10165.39
2	Namit Patel	\$10143.50
3	Ryan Kellerman	\$10120.35
4	Ely Fialkoff	\$10051.50
5	arjun bedi	\$10035.48
6	harsh patel	\$10020.41
7	Ashwin Kadaru	\$10000.00


## 7.0 Profile Page

The user can navigate to their profile page via the side navigation bar. The profile page contains:

1. The user profile picture
2. The Users Email
3. The Users Net Worth
4. Settings tab
  - a. The user can edit profile information
5. News
  - a. Not implemented yet
6. Activity
  - a. Not implemented yet

**Stockers**

### My Profile

 Email: ashwinkadaru96@hotmail.com  
Net: \$10000.00

SETTINGS   NEWS   ACTIVITY

Username:  
Email:  
Change Password...  
Re-type Password...

SUBMIT

## 7.1 Edit Profile Picture

The user will be able to edit their profile information such as their username and password from the settings tab. Currently this functionality has not been implemented.

The screenshot displays the 'My Profile' section of the 'Stockers' application. At the top, a dark blue header contains a menu icon and the app name 'Stockers'. Below this, the 'My Profile' title is centered. A profile card follows, featuring a grey silhouette placeholder for a profile picture, the email address 'Email: ashwinkadaru96@hotmail.com', and the net worth 'Net: \$10000.00'. Underneath the profile card is a settings form, which is highlighted with a red border. This form has a tabbed interface with 'SETTINGS', 'NEWS', and 'ACTIVITY' tabs. The 'SETTINGS' tab is active, showing input fields for 'Username:', 'Email:', 'Change Password...', and 'Re-type Password...'. A 'SUBMIT' button is located at the bottom of the settings form.