Stock Application

Test Case Plan

Derek Brown, Alyssa Drohan, Phillip Gil-Perea, Isaiah Johnson, Russell Quao, Isaac Silvious, Horatio Hodge

April 23, 2018

Table of Contents

Title page………………………………………………………………..…..pg 1

Table of Contents………………………………………………..…………pg 2

Introduction………………………………………………………………….pg 4

Constraints……………………………………………………....………….pg 4

Test Environment & Tools…………………………………………………pg 4

Approach………………………………………………………...……..…...pg 4

Roles……………………………………………………………....………...pg 5

Schedule………………………………………………………………….....pg 5

References.………………………………………………………………....pg 6

Test Case ID TC001 Register...…………..……………………….…......pg 7

Test Case ID TC002 Login…..….……………….……………….…….…pg 10

Test Case ID TC003 Logout.…………………………………………......pg 12

Test Case ID TC004 Search for Stocks...…………………………….....pg 13

Test Case ID TC005 Reset Password………………………………......pg 15

Test Case ID TC006 Start Application……..……….…………………...pg 18

Test Case ID TC007 Add to Stock Owned List…………………………pg 21

Test Case ID TC008 Add to Watchlist List……………………………...pg 24

Test Case ID TC009 View Portfolio Summary List…………………….pg NA

Test Case ID TC010 Edit User Settings List………………………..….pg 25

Test Case ID TC011 View Trending Stocks List……………...…...…..pg 29

Test Case ID TC012 Remove From Watchlist List…………...…...…..pg NA

Test Case ID TC013 Remove From Stock Owned List……………….pg NA

Test Case ID TC014 View Individual Stock Page List………..….……pg NA

**Introduction**

The purpose of testing this stock application is for a user to be able to view, track and add to their stock portfolio. The user can add stocks to their portfolio and watchlist to track their performance.

**Constraints**

Only two of the members, Isaac and Jarrett will be testing our application . The rest of the team members will be testing the user inputs for the rest of the use cases.

**Test Items & Environment**

We are using Webstorm 2017 2.4 and Brackets 1.12 for our IDE. Like previous years, we will rely on Axosoft for testing purposes. Tutorial on Axosoft: The Axosoft site is fairly simple to use and easy to understand. In the Organize Panel, there are four sections; Projects, Releases, Users & Teams, and Customers. The Projects panel shows the projects that are currently being worked on. The user can add or edit their projects by clicking on the “Add” or “Edit” buttons at the top of the panel. When the user clicks the “Add” button a box shows up that asks you to enter the name of your new project. The Release panel shows the projects you have access to. In the Users & Teams panel, users can add users and also create teams within the panel. To add or edit these users, click on the “Add” or “Edit” buttons at the top of the panel. When adding a user, you simply enter the user's e-mail address into the box and Axosoft sends them an email explaining to them how to confirm that they have been added.

In the Customer's panel, you can add or edit customers but clicking the “Add” or “Edit” buttons at the top of the panel. When adding a customer, it will ask you to type the company/customer name and also a URL. The main panel on the page is where you can add bugs and you add them by clicking the “Add” button at the top of the panel. When you click the “Add” button, it will show you different options you can set. You add a title, assign due dates for when you want the bugs to be tested by and assign who should test it. You can also assign priority to the bugs and the severity of the bugs.

**Approach**

The type of testing we are using for this stock application is manual black box testing. Black box testing is used to test the input/output behavior of each test case. All of the test cases are found below for the stock application.

**Roles**

Jarrett Horton: Manager of the team and in charge of writing up everything but the test cases for this document (Introduction, Constraints, Test Items & Environment, Approach, Roles, Schedule, and References). Jarrett’s role in the testing process is to manage the team and assign code to members to test.

Isaac Silvious: Team member in charge of writing the other half of the test cases for this document (Splash Screen, Create Account, Login, View Main Screen, Load Excursion, Start Recording Route, and Add Observation). Paul’s role in the testing process is to test the code that was passed down from the App development team.

Isaiah Johnson: Team member in charge of writing half of the test cases for this document (View Observation, Edit Observation, Stop Recording Route, Edit Excursion, Save Excursion, Logout, and Exit). He was also responsible for finding a free bug tracking software. Brandon’s role in the testing process

Russell Quao:Team Member in charge of writing/formatting Use Cases(calculate price alert, calculate trending stocks, search for stocks). Participated in designing the search Gui for the application.

Derek Brown:Team member in charge of creating all of the Gui’s and the Add to Stock Owned List, Remove from Stock Owned List

Horatio Hodge: Team member responsible for developing use cases and keeping them up to date. Responsible for developing and updating Test cases as well as testing the appropriate functions of the webpage and searching for bugs.

Daniel Gaisberger: Team member in charge of the database and developer for the homepage.

Phillip Gil-Perea: Responsible for use cases. (Edit user settings, Log out, Forgot Password)

Alyssa Drohan: Team member is responsible for the part of the black box testing.

**Schedule**

Schedule can be found at

(https://github.com/StockAppSoftwareEng450/Stock-App/blob/master/rad.pdf) on page 31.

**References**

The Requirements Analysis Document (RAD) is available on the stock application website and other project information: (https://github.com/StockAppSoftwareEng450/Stock-App/blob/master/rad.pdf). For more information on how to use Axosoft link: (https://www.youtube.com/watch?v=32x-UseZRyg).

**Test Cases**

**Test Case ID TC001 “Register Account”**

**Summary:** Verify a user can create an account as long as the user uses a valid email that is not in the database and the Password and Confirm Password fields are the same.

**Prerequisite:** Application has the Register screen loaded and a account with the following data has been created.

First Name: John

Last Name: Doe

Email: Johndoe@gmail.com

Password: password1

**Instructions:** For each test, enter the following data into the correct fields, then modify each field according to the test instructions.

First Name: Bob

Last Name: Dylon

Email: Bobdylon@gmail.com

Password: password2

Confirm Password: password2

**Test Data and Expected Result**

1. Change the Email field to “bobdylongmail.com” and press the Create Account button.

2. Change the Email field to “@gmail.com” and press the Create Account button.

3. Change the Email field to “bobdylon/@gmail.com” and press the Create Account button.

4. Change the Email field to “bobdylon”@gmail.com” and press Create Account button. RESULT: System should display a prompt saying the email is not valid.

5. Change the Email field to “Johndoe@gmail.com” and press the Create Account button.

6. Change the Email field to “admin@gmail.com” and press the Create Account button. RESULT: System should display a prompt saying the email is already in use.

7. Change the Password field to “password,” but leave the Confirm Password field

“password2” and press the Create Account button.

8. Change the Password field to “password2,” but leave the Confirm Password field

“password” and press the Create Account button.

9. Change the Password field to “Password!,” but leave the Confirm Password field

“password!” and press the Create Account button.

RESULT: System should display a prompt saying the passwords do not match.

10. Change the First Name field to “Bob#” and press the Create Account button.

11. Change the First Name field to “Bob14” and press the Create Account button.

12. Change the First Name field to “Bob\*” and press the Create Account button.

13. Change the First Name field to “Bob ” and press the Create Account button.

14. Change the First Name field to “ Dylon” and press the Create Account button.

RESULT: System should display a prompt saying names may only contain alphabetic symbols.

15. Change the Last Name field to “Dylon1” and press the Create Account button.

16. Change the Last Name field to “Dylon#” and press the Create Account button.

17. Change the Last Name field to “Dylon\*” and press the Create Account button.

Change the Last Name field to “Dylon ” and press the Create Account button.

18. Change the Last Name field to “ Dylon” and press the Create Account button.

RESULT: System should display a prompt saying names may only contain alphabetic symbols.

19. Keep all information correct and press the Create Account button. RESULT: System should create an account and redirect to the login screen.

Login Page

**Summary** Verify a user can log in.

**Prerequisite** Application has the Login screen loaded and a account with the following data has been created.

First Name: Bob

Last Name: Dylon

Email: Bobdylon@gmail.com

Password: password2

**Instructions** Perform the following instructions

**Test Data and Expected Result**

1. Enter “Bobdylon@gmail.com ” in the Email field and “password1” in the password field and press the Login button.

2. Enter “fakeemail@hotmail.com ” in the Email field and “password2” in the password field and press the Login button.

3. Enter “Bobdylon@gmail.com ” in the Email field and “password2” in the password field and press the Login button.

RESULT: System should display an error message stating the username or password is incorrect.

**Instructions** Perform the following instructions

**Test Data and Expected Result**

1. Enter “test;@google.com” in the Email field and “password1” in the password field and press the login button.

Result: System should display a prompt stating “a part followed by ‘@’ should not cotain this symbol ‘;’

1. Enter “testgoogle.com” in the Email field and “password1” in the password field and press the login button.

Result: System should display a prompt stating “please include ‘@’ in email address “testgoogle.com””

1. Enter “testing@googlecom” in the Email field and “password1” in the password field and press the login button.

Result: System should display a prompt stating “please enter valid credentials”

Logout Page

**Summary** Verify that the user can log out.

**Prerequisite** The user is logged in and on the main screen.

**Instructions** Perform the following instructions.

**Test Data and Expected Result**

1. Within the navigation slider, click the logout button

Result: System should display a pop menu with “Ready to Leave? Select “Logout” below if you are ready to end your current session. Cancel Logout”

2. The user clicks on cancel

Result: system should remove the dialog box and return the user to the dashboard.

3. If the user selects the ‘x’ button in the top right hand corner.

Result: system should remove the dialog box and return the user to the dashboard.

Search for stocks

**Summary** Verify that the search function works. **Prerequisite** The user is logged in and on the main screen. **Instructions** Perform the following instructions.

**Test Data and Expected Result**

1. Enter “AAPL” into the search field.

2. Enter “MSFT” into the search field.

3. Enter “GOOG” into the search field.

4. Enter “AMD” into the search field.

RESULT: The system should display no stock

1. Enter “AAPL!” into the search field.

2. Enter “MSFT@” into the search field.

3. Enter “GOOG#” into the search field.

4. Enter “AM”D” into the search field.

RESULT: The system should display no stock

1. Enter “Apple Inc.” into the search field.

2. Enter “Microsoft Corporation” into the search field.

3. Enter “Alphabet Inc.” into the search field.

4. Enter “Advanced Micro Devices Inc” into the search field.

RESULT: The system should display the corresponding stock

1. Enter “Apple! Inc.” into the search field.

2. Enter “Microsoft@ Corporation” into the search field.

3. Enter “Alphabet# Inc.” into the search field.

4. Enter “Advan”ced Micro Devices Inc” into the search field.

RESULT: The system should display no stocks

Reset Password

**Summary** Creating a new password if the user gets locked out of their account.

**Prerequisite** The user is connected to the internet.

First Name: Boe

Last Name: Daily

Email: [bdaily32@gmail.com](mailto:bdaily32@gmail.com)

Password: boetime

**Instructions** Perform the following instructions. **Test Data and Expected Result**

1. Enter “boetime” in the new password field and “noetime” in the confirm new password field, then press the reset button.
2. Enter “booboo” in the new password field and “nono” in the confirm new password field, then press the reset button.
3. Enter “password” in the new password field and “lastword” in the confirm new password field, then press the reset button.

RESULT: System should display an error message stating that the entered password fields do not match, please try again.

4. Enter “password” in the new password field and “password” in the confirm new password field, then press the submit button.

RESULT: The system should retrieve the new password designated for the user and update that information to the database.

5. User enters “[bdaily32@gmail.com](mailto:bdaily32@gmail.com)” into the email text field and clicks submit.

RESULT: The system searches the database, finding an email match, then sends an email to the user with a reset password link.

6. User enters “[badaily32@gmail.com](mailto:bdaily32@gmail.com)” into the email text field and clicks submit.

7. User enters “boedailysgmail” into the email text field and clicks submit.

8. User enters “[badgmail.com](mailto:bdaily32@gmail.com)” into the email text field and clicks submit.

RESULT: The system should display an error message stating the entered email address doesn’t exist in the database and/or invalid.

**Start application**

**Summary** Will determine if the user has logged on to the website previously. **Prerequisite** The user is connected to the internet and has access to the firebase database.

**Instructions** Perform the following instructions.

**Test Data and Expected Result**

**Dashboard Button**

1. Click and drag on the dashboard button
2. Right click on the dashboard button
3. Click with two fingers on the dashboard button
4. Click with three fingers on the dashboard button

RESULT: Nothing is returned and user remains on current start application screen

**Each Stock in Portfolio Button(Stock Card)**

1. Click and drag on the stock portfolio button (Stock Card)
2. Right click on the stock portfolio button (Stock Card)
3. Click with two fingers on the stock portfolio button (Stock Card)
4. Click with three fingers on the stock portfolio button (Stock Card)

RESULT: Nothing is returned and user remains on current start application screen

**My Portfolio Stock Items**

1. Click and drag on the stock portfolio button
2. Right click on the stock portfolio button
3. Click with two fingers on the stock portfolio button
4. Click with three fingers on the stock portfolio button

RESULT: Nothing is returned and user remains on current start application screen

**My Watchlist Stock Items**

1. Click and drag on the stock portfolio button
2. Right click on the stock portfolio button
3. Click with two fingers on the stock portfolio button
4. Click with three fingers on the stock portfolio button

RESULT: Nothing is returned and user remains on current start application screen

**Percentage Change Bar Chart**

In the percentage change bar chart, verify that the hovering is correct

^^^^^ same for stock portfolio diversity

**Delete Stocks in Watchlist and Portfolio**

1. Click and drag on the delete button
2. Right click on the delete button
3. Click with two fingers on the delete button
4. Click with three fingers on the delete button

RESULT: Nothing is returned and user remains on current start application screen

**Trending Stocks**

1. Click and drag on the trending stocks button
2. Right click on the trending stocks button
3. Click with two fingers on the trending stocks button
4. Click with three fingers on the trending stocks button

RESULT: Nothing is returned and user remains on current start application screen

**Settings**

1. Click and drag on the settings button
2. Right click on the settings button
3. Click with two fingers on the settings button
4. Click with three fingers on the settings button

RESULT: Nothing is returned and user remains on current start application screen

**Drop Down Menu**

1. Click and drag on the drop down menu
2. Right click on the drop down menu
3. Click with two fingers on the drop down menu
4. Click with three fingers on the settings button

RESULT: Nothing is returned and user remains on current start application screen

Add stock to portfolio

**Summary** Verify a user can add a stock to their owned list.

**Prerequisite** Application has to be connected to the firebase database, and be connected to the internet

**Instructions** Search for “Apple Inc.” and click it. For each case, click the “add to portfolio” button and enter the values given.

**Test Data and Expected Result**

**● Purchase Date**

1. Date purchased: 1/!/2018

Price: <Keep current price>

Quantity: 1

1. Date purchased: 1/12

Price: <Keep current price>

Quantity: 1

1. Date purchased: 1

Price: <Keep current price>

Quantity: 1

1. Date purchased: <Nothing>

Price: <Keep current price>

Quantity: 1

RESULT: The user should see an error message saying “Please enter valid inputs”

1. Date purchased: 1/1/2018

Price: 100

Quantity: 1

1. Date purchased: <Keep the current date>

Price: <Keep the current price>

Quantity: 1

RESULT: The user should see a message saying “Added stock to portfolio”

**● Purchase Price**

1. Date purchased: <Keep the current date>

Price: 0

Quantity: 1

1. Date purchased: <Keep the current date>

Price: <Nothing>

Quantity: 1

RESULT: The user should see an error message saying “Please enter valid inputs”

1. Date purchased: <Keep the current date>

Price: 100

Quantity: 1

1. Date purchased: <Keep the current date>

Price: <Keep the current price>

Quantity: 1

RESULT: The user should see a message saying “Added stock to portfolio”

**● Purchase Quantity**

1. Date purchased: <Keep the current date>

Price: <Keep current price>

Quantity: 0

1. Date purchased: <Keep the current date>

Price: <Keep current price>

Quantity: <Nothing>

1. Date purchased: <Keep the current date>

Price: <Keep current price>

Quantity: 1

RESULT: The user should see an error message saying “Please enter valid inputs”

1. Date purchased: <Keep the current date>

Price: <Keep current price>

Quantity: 1

RESULT: The user should see a message saying “Added stock to portfolio”

Add stock to watchlist

Summary: Adding stock to watchlist which will show up on the start application

Prerequisite: The user clicks on a stock and is transferred to the individual stock page

Edit User Settings

**Summary:** Allows the user to edit email, password, currency, and name which will save the database.

**Prerequisite:** The gear icon on the top left of web page is clicked and the application has the Edit User Setting screen loaded.

**Instructions** Perform the following instructions.

**Test Data and Expected Result**

**Email**

1. Change the Email field to “chuckbillychoe@.com” and press the save button.
2. Change the Email field to “gmail.com” and press the save button.

RESULT: System should display a prompt saying the email is not valid.

1. Change the Email field to “[chuckbillychoe@gmail.com](mailto:chuckbillychoe@gmail.com)” and press the save button.

RESULT: System updates the new entered email address in the database to the account it is linked to.

**New password & Confirm password**

1. Enter “locked” in the new password field and “lock” in the confirm new password field, then press the reset button.
2. Enter “keys4” in the new password field and “key5” in the confirm new password field, then press the reset button.
3. Enter “password1” in the new password field and “password2” in the confirm new password field, then press the reset button.

RESULT: System should display an error message stating that the entered password fields do not match, please try again.

4. Enter “password1” in the new password field and “password1” in the confirm new password field, then press the submit button.

RESULT: The system should retrieve the new password designated for the user and update that information to the database.

**Submit button**

**First name**

1. Change the First Name field to “Joe” and press the Submit button.

RESULT: The system should retrieve the changed first name input designated for the user and update that information to the database.

2. Change the First Name field to “Joe14” and press the Submit button.  
3. Change the First Name field to “\*” and press the Submit button.  
4. Change the First Name field to “Joe ” and press the Submit button.  
5. Change the First Name field to “Derek” and press the Submit button.  
  
  
RESULT: System should display a prompt saying names may only contain alphabetic symbols.  
  
**Last name**

6. Change the Last Name field to “Smith” and press the Submit button.

RESULT: The system should retrieve the changed last name input designated for the user and update that information to the database.

7. Change the Last Name field to “Smith#” and press the Submit button.  
8. Change the Last Name field to “Smith\*” and press the Submit button.  
9. Change the Last Name field to “Smith ” and press the Submit button.  
10. Change the Last Name field to “ Smith” and press the Submit button.  
  
  
RESULT: System should display a prompt saying names may only contain alphabetic symbols.

**Phone number**

1. Change the phone number field to “1-800-756-1906” and press the Submit button.
2. Change the phone number field to “(800)756-1906” and press the Submit button.
3. Change the phone number field to “(800) 756-1906” and press the Submit button.
4. Change the phone number field to “8007561906” and press the Submit button.

RESULT: The system should retrieve the changed phone number input designated for the user and update that information to the database.

1. Change the phone number field to “1-800-7s6-1g0b” and press the Submit button.
2. Change the phone number field to “seveneightninetwotwothree” and press the Submit button.
3. Change the phone number field to “!800^%303”and press the Submit button.
4. Change the phone number field to “+:231-EZ”and press the Submit button.

RESULT: System should display a prompt saying phone number may only contain numerical symbols.

**Currency**

**submit**

**faq**

Trending stocks

**Summary** Will allow user to view trending stocks (gainers and losers).

**Prerequisite** The user is connected to the internet and has access to the firebase database.

**Instructions** Perform the following instructions.

**Test Data and Expected Result**

1. Click and drag on the stock symbol in the gainers section
2. Right click on the stock symbol in the gainers section
3. Click with two fingers on the stock symbol in the gainers section
4. Click with three fingers on the stock symbol in the gainers section

Result: Nothing is returned and user remains on current start application screen

1. Click and drag on the stock symbol in the losers section
2. Right click on the stock symbol in the losers section
3. Click with two fingers on the stock symbol in the losers section
4. Click with three fingers on the stock symbol in the losers section

RESULT: Nothing is returned and user remains on current start application screen

1. Click on the stock symbol in the gainers section

RESULT: Directs user to individual stock page.

1. Click on the stock symbol in the losers section

RESULT: Directs user to individual stock page.

FAQ

**Summary** What does this do? It describes how to use the Stock App

**Prerequisite** User has to click on settings page, then faq down at the

**Instructions** Perform the following instructions.

**Test Data and Expected Result**

**Pictures**

1. **Two finger click- Picture expands to center screen.**
2. **Three finger click- Picture expands to center screen**
3. **One finger click- Picture expands to center screen**

**gallery**

**Clicked outside**

**Page navigation**