

<Pocket Stock>

Software Test Plan

CSCI-P465/565 (Software Engineering I)

Project Team

<Angad Beer Singh Dhillon>

<Raghottam Dilip Talwai>

<Aravind Bharatha>

<Mathew Pletcher>

1. Overview

We will use manual testing to test the product. Since the website does not have a lot of functionalities therefore manual testing is a better choice to execute testing rather than creating automated scripts.

The aim of test cases will be to test each possible functionality offered by the website. The main goal of the tester will be to execute test cases with a mindset of finding bugs in the code and incorrect functionalities. The tester will directly interact with the client to gather requirements and will write test cases according to those requirements (Note: The tester would not gather requirements from development team of that round or functionality, the idea being that it is difficult to find bugs in your own code.)

The developer will run one round of high level testing just to make sure there is no obvious blocker in the code. The testing will then be executed by a team member who did not develop that functionality.

1.1 Test Objectives

The Test objectives are as follows:

- Check if user registration is working properly.
- Check if email login is working.
- Check if facebook login is working.
- Check if google+ login is working.
- Check if logout is working.
- Check if UI looks fine.
- Check if Duo Login Works.
- Check if password reset is working properly.
- Check if user dashboard is working properly.
- Check if user lands on their own dashboard and not one someone elses dashboard.
- Check if user is able to sell and buy stocks.
- Check if the database retains the stock information of user.
- Check if UI of dashboard is working fine.
- Check if Landing Page is working fine.
- Check if Stock data is being saved in the database.
- Check if user is able to access stock data and its past history.
- Check if user is able to search for the stocks in the search bar.
- Check if stock data is displayed if you click on the stock at the dashboard.
- Check if Chat is working fine.
- Check if Message board is working fine.

1.2 Test Environment

The testing will occur on various browsers (multi browser testing). The testing will be conducted on all the available versions of IE, Mozilla, Safari, Chrome. Also the testing will be conducted on mobile devices and desktop devices.

1.3 Test Personnel

Angad will be executing testing for this sprint. All bugs will be reported and tracked on JIRA. Testing will be carried out according to customer needs in mind.

1.4 Acceptance Criteria

As per industry standards, we agreed upon a 5% test case failure rate. If more than 5% of the test cases fail in one execution cycle the product will be marked low quality and will not be delivered.

The 5% rule will be applicable on each regression. Once the tester has done one cycle of testing, the issues will be logged on JIRA and it will be Testers responsibility to track the bugs and start the next cycle of testing.

2. Test Cases

| Number | Name | Description | Initial Conditions | Input Data | Specifications | Procedure |
|--------|----------------|--|--------------------|--|----------------|-----------|
| 1 | Home Page Load | Type the website URL in address bar and check if the homepage of Pocket Stock Loads. | NA | NA | NA | NA |
| 2 | Email Login | This test case will check the email id login by entering incorrect and correct user id and password. | NA | (Incorrect ID, Incorrect Password) (Incorrect ID, Correct Password) (Correct ID, Incorrect Password) (Correct ID, Correct Password) | NA | NA |
| 3 | Facebook Login | Test case will check if after clicking the Facebook login button, if page is redirected to | NA | Incorrect Facebook Login Details | NA | NA |

| | | | | | | |
|---|---------------------|---|---|--------------------------------|----|----|
| | | Facebook login or not. After Facebook login is successful, check case 6 | | Correct Facebook Login Details | | |
| 4 | Logout | Test Case will logout the users account from pocket stock. | User should be logged in. Test Case 2,3 have to be executed before this test case. | NA | NA | NA |
| 5 | Duo Authentication | Check if Duo application on mobile receives a push every time a user logs into their Pocket Stock Account | User should successfully pass either 2,3 Test Case. | NA | NA | NA |
| 6 | Final Login | Check if Access to Pocket Stock Account is given once, user accepts the Duo App push. | User should successfully pass 2,3,5 | NA | NA | NA |
| 7 | Inactivity Time Out | Leave the logged in account inactive for 5 mins and check if automatic logout takes place. Also see if a session timeout message is displayed. | User should already be logged into pocket stock | NA | NA | NA |
| 8 | Dashboard | Check if after login the user lands on their personalized dashboard. | User should be able to Login properly. | User ID , User Password | NA | NA |

| | | | | | | |
|----|---------------------------|--|--|--|----|----|
| 9 | Stock Information | Check if Dashboard displays all stocks of the user. | User should have a transaction history with the website. | Stock transaction history. | NA | NA |
| 10 | Transaction History | Check if the dashboard displays the accurate transaction purchase date and purchase value of each stock. | User should be able to see all possessed stocks. | Stock history and transaction history. | NA | NA |
| 11 | Gain Value | Check if user is able to view all gain or loss on every stock according to the current value of the stock | User should have some Stock history | User should be logged in . | NA | NA |
| 12 | Click Expansion | Check if the stocks expand to another modular window on clicking on them | User should have stocks added in the dashboard | User should be logged in | NA | NA |
| 13 | Log out in another window | Try opening to different tabs for dashboard and logout on one tab. User should be automatically logged out from other tab | User should have a user account | NA | NA | NA |
| 14 | Try doing transactions | Try Buy or Sell of stocks and see if values are recorded in database | NA | NA | NA | NA |

| | | | | | | |
|----|--|---|-----------------------------------|---|----|----|
| 15 | Try buying a stock that is not available | User should not be bale to buy such stock | NA | NA | NA | |
| 16 | Sell Entire Stock | Try selling the entire holding of stock and see if stock still appears in dashboard. | Stock should initially be present | NA | NA | NA |
| 17 | Sell/purchase multiple stocks at once | Sell or purchase multiple stocks in one session and see if it works properly. | NA | NA | NA | NA |
| 18 | Iterative sale and purchase | Sell and buy same quantity of stock one after the other. And see if gain and loss values change | NA | NA | NA | NA |
| 19 | Landing Page UI | Check if landing page is working fine and UI is proper | NA | NA | NA | NA |
| 20 | Data Fetching | Check if data is being fetched properly from the stock API and is being properly store in the database. | NA | The API data is the input data | NA | NA |
| 21 | Stock Dashboard | Check if once you click the name of the stock in the user dashboard, the stock dashboard opens and displays all the | The user should be logged in. | Stock data should be fetched from the API | NA | NA |

| | | | | | | |
|----|--|---|--|----|----|----|
| | | stock data in a graphical manner. | | | | |
| 22 | Search | Check if the search bar finds quality results for stocks | The stock should be present in the database | NA | NA | NA |
| 23 | Message Board | Check if message board is working fine and all users can post messages on it. | The user should be logged in . | NA | NA | NA |
| 24 | Chat | Check if user to user chat is working fine | Both users should be logged in. | NA | NA | NA |
| 25 | Search for company category | Check if companies can be search by name and category both | User should be able to do so. | NA | NA | NA |
| 26 | UI dashboard tweaks | Check if atleast two rows of stock transaction data is visible on dashboard | User should be able to do so | NA | NA | NA |
| 27 | Pocket Stock Logo | Check if Pocket Stock Logo is visible on top left corner | Pocket stock logo should be visible on every page. | NA | NA | NA |
| 28 | Check if Company info data is visible on company search page | Some information about the company should be displayed along with company Stock graph | Company should be listed with Pocket Stock | NA | NA | NA |

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |

Revision History

| Revision | Date | |
|----------|------------|--|
| Sprint 1 | 10/01/2017 | |
| Sprint 2 | 10/15/2017 | |
| Sprint 3 | 10/29/2017 | |
| Sprint 4 | 11/12/2017 | |
| | | |
| | | |
| | | |
| | | |