

SYSTEMS TEST PROCEDURE:  
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COSC 412-041

## **Testing Requirements:**

- This application must have the following requirements running functionally:
  - The website must have a log-in function for users.
  - The website will have a drop-down function that allows the users search for what cryptocurrencies are available.
  - The website must have a buy/trade function in which the user is allowed to purchase the cryptocurrency that is available in the exchange.
  - The cryptocurrency exchange must have a section in the dashboard of the cryptocurrency that the user has in their account.
  - The user can view market data (Bitcoin) from a graph that is on their account.

## ***Log-In Function Testing:***

- This test will ensure that the user log-in is running properly.
  1. Tester is on the homepage of the website.
  2. Tester clicks on the log-in tab on the right hand corner of the website.
  3. Tester will be on the log-page in which they will see the username and password.
  4. Tester will now enter the log-in credentials of the account in the space provided.
  5. The tester should be redirected to the account page in which they will see a chart and a list of cryptocurrencies with a balance next to them in their account.

## ***Drop-Down Function Testing:***

- This test will ensure that the drop-down function allows the users to see what cryptocurrencies that they can buy from their account.
  1. Tester will log-in to the account and enter their log-in credentials in the space provided.
  2. The tester will be redirected to the account page.

3. Under the chart that displays real time data of Bitcoin market price, there are two tabs. One will say "Buy Crypto" and under that tab the other tab will say "Sell Crypto".
4. On the "Buy Crypto" there is a section that says "BTCUSD" in which it is on the left side of the buy button.
5. The tester must click on that section and see if the drop-down function works and shows the available cryptocurrency that the user can purchase.
6. The tester repeats steps 4 and 5 but on the "Sell Crypto" tag.

***User Buying/Trading Cryptocurrency Testing:***

- This test will see if the buying and trading functions of the user account are properly working when they make a transaction.
  1. Tester is on the homepage of the website.
  2. Tester clicks on the log-in tab on the right hand corner of the website.
  3. Tester will log-in to the account and enter their log-in credentials in the space provided.
  4. Tester will be redirected to their account page.
  5. Under the chart that displays real time data of Bitcoin market price, there are two tabs. One will say "Buy Crypto" and under that tab the other tab will say "Sell Crypto".
  6. On the "Buy Crypto" there is a drop down function in which the tester can view which cryptocurrency that they want to buy.
  7. Tester then will select which cryptocurrency that they want to buy.
  8. On the left of the drop down function, the tester will enter the quantity that they want to buy of the cryptocurrency
    - **\*IMPORTANT:** The Website only allows a minimum of a 20 dollar transaction. If the tester wants to buy a cryptocurrency, the tester must

enter a quantity in which the value is exactly or more than 20 dollars worth. If not, the user will have a red message in which the order will be rejected.\*

9. Once the tester enters the quantity and selects which cryptocurrency that they would like. The tester will submit their order by clicking the buy button.
10. Once the order has been completed, the balance will be updated in their account and they will be able to see the changes that were made after the transactions.
11. For the “Sell Now” function, there is a drop down function in which the tester can view which cryptocurrency that they want to buy.
12. The tester then will select which cryptocurrency that they want to sell.
13. On the left of the drop down function, the tester will enter the quantity that they want to sell of the cryptocurrency
  - \*IMPORTANT: The Website only allows a minimum of a 10 dollar transaction. If the tester wants to sell a cryptocurrency, the tester must have the cryptocurrency value exactly or more than 10 dollars worth. If not, the user will have a red message in which the order will be rejected. Also, the website will reject any sell orders if they do not have any quantity of the cryptocurrency that they are trying to see\*
14. Once the order has been completed, the balance will be updated in their account and they will be able to see the changes that were made after the transactions.

### ***Checking User’s Balance Testing:***

- This test will see if the application will show the user balance of the cryptocurrencies that they have:
  1. Tester will log-in to the account and enter their log-in credentials in the space provided.

2. The tester will be redirected to their account page.
3. Under the "Sell Crypto" tab, there should be a list named "Balances" in which it shows all the cryptocurrency and the total quantity that the account has.

### ***Displaying Market Data Testing***

- This test will see if the application will show real time market data (Bitcoin) on the user account:
  1. Tester will log-in to the account and enter their log-in credentials in the space provided.
  2. The tester will be redirected to their account page.
  3. Once they are in their account page, a graph above the "Buy Crypto" tab should be displayed and functioning. It should be moving and displaying real time data for the user to see.