

Sprint-4 Artifact

Members: Giovanni Costagliola, Ryan Ly, Alexander Silva, Amirreza Shirazi, Daniel Fitchmun

Feature: (analytics to implement)

- The average growth(gains) of the coin in a given month
- The average decline(loss) in price for a given month
- The average crypto volume in a given month.

User test case: (for testing the analytics)

- **Feature 1 Test Cases:** As a user, I need to be able to click on a button to find the average growth(gain) of a coin while entering a given month.
 - **Test case 1:** As a user, in the crypto data page, there is a drop down option button to find the average growth of a coin.
Correct Output: The website will display an option button to display the average growth(gain) of a coin with the entry of a given month.
 - **Test case 2:** As a user, I click on the search bar to search the entry that I enter for the given months.
Correct Output: The website sends a search request to the backend for the given month that was entered.
- **Feature 2 Test Cases:** As a user, I need to be able to click on a button to find the average decline(loss) in price while entering a given month.
 - **Test case 1:** As a user, in the crypto data page, there is a drop down option button to find the average losses of a coin.
Correct Output: The website will display an option button to display the average losses of a coin with the entry of a given month,
 - **Test case 2:** As a user, I click on the search bar to search the entry that I entered to ensure that it is the correct information being sent out.
Correct Output: The website should send a request to the backend to retrieve data about the given coin with the given month, with the average decline.
- **Feature 3 Test Cases:** As a user, I need to be able to click on a button to find The average crypto volume while entering a given month.

- **Test case 1:** As a user, in the crypto data page, there is a drop down option to see the average crypto volume with the entry of a given month.
Correct Output: The website will display an option button to display the average volume of a coin with the entry of a given month.
- **Test case 2:** As a user, I click on the search bar to search the entry that I enter for the given months.
Correct Output: The website sends a search request to the backend for the given month that was entered and checks for correctness.

GUI design: (for testing the analytics)

- (check the next page)

choosing option

month to
be enter

Enter month then choose your option

Average
Growth

Average
loss

Average crypto
value

user will choose one

When user chooses
Growth or loss &

The average growth/loss in a month for "X" coin is

" printed value "

The highest crypto coin by volume is

" Printed value "

Done list of last sprint:

- Front End work: Daniel, Giovanni and Alexander
- Back End work: Daniel, Amirreza and Ryan
- Create update/insert/delete features
- Create a database that backs up data.
- Discuss what needs to be done and time frame for each implementation

ToDo task list for the next sprint:

- Will implement the analytics for average loss or gain depending on the user preference in a given month.
- Will add the most volume gain in a given month
- Reorganize and clean code to make our back-end and front more