Pet Projects

Pet Project 1 - Reddit Bot - Dan

**User story:** As a user, I want to view the value of Bitcoin during the January 2018 price crash, as well as significant positive/negative reddit news posts regarding bitcoin at the time, so that I can determine the potential causes of the crash.

**Requirements**:

Database/Table Storage

Python App (Bot)

Pet Project 2 - Twitter Bot (Dexter)

**User story:** As a user, I want to view the value of Bitcoin during the January 2018 price crash, as well as significant positive/negative twitter news posts regarding bitcoin at the time, so that I can determine the potential causes of the crash.

**Requirements:**

Database/Table Storage

Logic App using twitter functionality

Pet project 3 - Portfolio Tab (Dexter)

**User story:** As a user I want to view my portfolio and see how the value of my combined investments have changed over time.

**Requirements**:

New tab for portfolio

Calculate portfolio values over time (Find a way to optimise this)

Pet project 4 - Performance comparison - Dan

**User story:** As a user, I want to compare my inputs over the last week with another user in order to determine who made better inputs during this time.

**Requirements:**

Add a comparison feature to the portfolio tab.

Friends list (extra feature)

Table Storage

Addition to API/new Logic/Function App

Pet Project 5 - User account screen (with options) - Niro

**User story:** I want to view my account data and delete it.

**Requirements:**

Account screen with various needed options (delete account)

Database with stored details.

Pet Project 6 - Simulator - Connor

**User story:** I want to view a point in time where bitcoin price was elevated for a large amount of time.

**Requirements:**

API update to return historical data for the currency

API update to return list of user inputs

New tab for the historical scenarios

Graph which can present historical data.

Table storage for historical data

Table storage for user inputs

Pet Project 7 - Home Page graph for live data - Connor

**User Story**: I want to view the current standing of bitcoin

**Requirements**:

Home page tab with Graph

API update to retrieve live data

Project 8 - Buying Coins (Mehmet)

**User Story:** As a user, I want to simulate buying an amount of coin so that I’m able to get a better understanding on buying any currency.

**Requirements:**

* Table Storage for coins in azure
* API (post end-point) - add endpoint to send data to table storage when buying
* API (get end-point) - add endpoint to get data from table storage
* UI option to buy a coin
* UI option to enter amount of coin to be bought
* UI option to show coins bought
* Buying a coin to update portfolio

Pet Project 9 - Selling Coins (Mehmet)

**User Story:** As a user, I want to simulate selling an amount of coin so that I’m able to get a better understanding on selling any currency.

**Requirements:**

* Table Storage for coins in azure
* API (post end-point) - add endpoint to send data to table storage when selling
* API (get end-point) - add endpoint to get data from table storage
* UI option to sell a coin
* UI option to enter amount of coin to be sold
* UI option to show coins sold
* Selling a coin to update portfolio

Pet Project 10 (Niro)

**User Story** - As a user, I want to access my past simulated trading scenarios where I was situated in a certain environment and review my specific inputs that I done at that moment, to identify patterns etc.

**Requirements**

Authentication System

Storage for inputs

Update to UI for displaying scenario data effectively,

Filter Option

Graph to show inputs

Pet Project 11 (Niro)

**User Story -** As a user, I want to access different sections of the website with ease through a navigation system.

**Requirements**

Authentication System

UI navigation via through buttons/arrows

Update to entire user interface

Update UI for for certain features (different sections)

Pet Project 12 Sign up (Dexter)

**User Story**: As a user I want to sign up for the trading simulation website

**Requirements**:

Sign up page

API update to request new user accounts

(Extra Feature) SignalR to redirect and login the new user once the sign up has completed

Pet Project 13 Login (Dexter)

**User Story**: As a user I want to login to the trading simulation website

**Requirements**:

Login page (included in sign up page)

UI update to show a user has logged in (Notification + status at the top of the page)

Pet Project 14 Logout (Dexter)

**User Story**: As a user I want to logout of the trading simulation website

**Requirements**:

Logout button on the website

Website functionality to clear cache and redirect user to signup/login page

Pet Project 15 - User Interface Design (Niro)

**Requirements**:

Gather information from other peers in the group for their input in the interface (Each pet project may need additional sections within the interface so need to discuss)

Use HCI principles from existing knowledge

Create a concept for design

Finalise design for user interface

Pet Project 16 - Live Chat (Mehmet)

**User Story:** As a user, I want to communicate with other users within the same platform so that I’m able to ask about anything I don’t understand.

**Requirements:**

* Table Storage for chat in azure
* API (post end-point) - add endpoint to send data to table storage when a message is entered
* API (get end-point) - add endpoint to get data from table storage to display in chat
* UI to enter message
* UI option to send message
* UI chat to display messages
* Sending messages to refresh UI and display messages for everyone

Pet Project



