Agenda Week 7: 5/11/19 - 12/11/19

Attendance: All

[Meeting Minutes](https://docs.google.com/document/d/1pm_dbVp4wpv44ipZnqYEf1vnVbUExyCxwhCAcQUeuhw/edit?usp=sharing)

What to discuss

* What we did last week
* Azure DevOps Access for Rogerio
* Architecture Diagram
* What we want to achieve for next week

What you did last week

* Finalised pet project topics
  + Social Media Integration - Dan
  + Accounts, Administration and Security - Dexter
  + Trading Positions and History - Mehmet
  + Historical & Live Data Acquisition and Representation - Connor
  + UI Design & Implementation (UX) - Niro
* Carried out the necessary research into our pet projects.
* Got started on pet projects.
  + Dexter
    - Created an Architecture diagram
      * <https://drive.google.com/file/d/11CDqaSua9LQDP1ia1NxFAcCjRwppIN7w/view?usp=sharing>
    - Began writing up new user stories and use cases for Administration functionality
    - Deployed a basic Angular.js WebApp so that the UI work can begin
    - Create the basic API
      * C#, .Net Core 2.1 - Running in a linux based web app
    - Task - Sign up functionality
      * Sent sign up page requirements to Niro
      * Added new user accounts endpoint to the API
      * Hooked up the API with the azure storage ‘Accounts’ table
    - Task - Login functionality
      * Sent login page requirements to Niro
      * Added login endpoint to the API
  + Dan
* Task - Decided on web framework
* Pet project - Social Media Integration
  + Carried out research into Reddit’s API and python apps
  + Create basic python app using the PRAW framework
  + Tested to ensure the correct information is being received
  + Installed Azure CosmosDB table API and established connection to Azure table storage.
  + Niro
    - Task - Navigation System
* Map out User interface - use HCI knowledge to create interface
* Research into libraries
* Get familiar with Azure
* UI navigation via through buttons/arrows
  + - Task - User account screen
      * Update API to retrieve account details, so that the user can view and edit
      * AI update - new page for account details
      * Get familiar with Azure
      * Account screen with various needed options (delete account)
      * Database with stored details.
    - Task - User Interface Design
      * 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
* Connor
  + Task - Graph Visualisation
* Researched and discover methods for graph creation (Libraries, platforms etc)
* Began graph development in Django framework with Python language (obsolete)
* Began graph development in Angular framework with Typecast language
  + Task - Live and Historical data acquisition
* Researched methods and functionality for data acquisition
* Discovered companies for data retrieval (Live and Historical)
* Developed functionality for getting data from one of the selected companies (not tested) (some now irrelevant due to Angular switch)
  + Mehmet
    - Researched C# and got a better understanding
    - Created plans for pet projects
    - Updated user stories and use cases for buy/sell functionality
    - Task - Positions
* Created table storage for ‘Positions’ in azure
* Cloned API repo to visual studio and started understanding API functionality
* Started API functionality for positions

What to do for next week:

* Dexter
  + Add unit tests for API work
  + Finish ‘Administration’ User Stories
  + Research security and encryption techniques for storing passwords
  + Add logging to the API for sign up and login
  + Send a UI design request to Niro for an Administration website
  + Send a UI design request to Niro for a user account details screen
  + Task 14 - Logout functionality
    - Add endpoint to API
    - Add logging for when a user signs out
  + Deploy a second Angular web app for Administrators
  + Research React
* Connor
  + Basic graph functionality in Angular framework
  + Acquisition of data from a chosen API
  + Basic graph using data from external companies API
  + Further research into graph design and characteristics
* Dan
  + Implement storage of obtained data in table storage
  + Decide on and implement a method for choosing which posts to store.
  + Send UI requirements to Niro
  + Begin research and implementation for twitter bot
* Mehmet
  + Create a controller for positions
* Hook up the API to the ‘Positions’ storage table
* Add a post end-point to send data to storage table
* Add get end-point to retrieve data from storage table
  + Create a position class
  + Create a position entity class
* Niro
* Implement UI requests from other members into conceptual UI Design
* Ensure experience for the user knows exactly what to do efficiently and effectively
* Match user interface with user stories
* Get UI request for graph from Connor

Individual review of progress:

* Dexter
* Connor
  + Created pet project document detailing research into graph libraries and what they require.
  + Django framework graph implementation scrapped after framework change to Angular.
  + Started and developed Angular framework graph, not working due to time and learning constraints from switch of framework.
  + Discovered external API’s for data, which are Cryptocompare and Alphavantage but more research will be required to decide if they are concrete. Should likely research more and create some documentation to decide and validate decision on API choice.
  + Alphavantage appears to use Json request but testing is required to validate. This will be pushed to a further week as graph implementation is focus at the moment.
* Dan
  + Implement storage of obtained data in table storage
  + Continue development of twitter and python app
  + Decide on which communities and hashtags to search, and how many posts per week to store, as well as the information to be stored (post title, date etc).
* Mehmet
  + Started my understanding of the API to code the functionality of end-points
* Niro
  + Implement UI requests from other members into conceptual UI Design
  + Ensure experience for the user knows exactly what to do efficiently and effectively
  + Match user interface with user stories
  + Get UI request for graph

Notes: