Agenda Week 9: 19/11/19 - 26/11/19

Attendance: All

[Meeting Minutes](https://docs.google.com/document/d/1GHMsf6t3hYcQ08JTln5N5BkOtbqpkv8cm4hxmelQlBA/edit?usp=sharing)

What to discuss

* What we did last week
* What we want to achieve for next week

What you did last week

* Carried out the necessary research into our pet projects.
* Continued work on pet projects:
  + Dexter
    - Updated Architecture diagram based on feedback
    - Found a solution to protecting passwords
      * Using PKBDF Hashing (Password-Based Key Derivation Function), passwords are no longer stored as strings in the Accounts table and the comparison is done between the generated hash values.
      * The benefit of PKBDF is that you can increase the work factor so that brute force attacks take significantly longer
    - Added dependency into the API
    - Found a solution to the unit test issue - Using NSubstitute
  + Dan
* Pet project - Social Media Integration
  + Carried out research into getting historical data from Reddit and Twitter APIs
  + Created separate tables in Azure Table Storage for Twitter and Reddit.
  + Implemented storage of posts from twitter in table storage
  + Implemented storage of posts from reddit in table storage
  + Niro
    - Task 11 - 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 5 - 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 6 - 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 6 - Graph Visualisation
* Completed a basic chart with basic API data from cryptocompare (currently broken)
* Started creating candlestick chart
* Fixed issues that were hindering progress of chart development
  + Task 7 - Live and Historical data acquisition
* Started document detailing current external API’s for live and historical data
* Started creating functionality for API live and historical data handling
* Creating API keys/requests from cryptocompare
  + Mehmet
    - Continued work on post end-point to send data to the storage table
* Need to find solution to posting data
  + - Downloaded fiddler to test end-points locally
    - Started testing post end-point and kept getting 404 errors (Not Found) and 500 errors (Internal Server Error)

What to do for next week:

* Dexter
  + Finish researching ASP.Net Core Identity
    - If it is suitable for our project, then I also need to implement this
  + Begin creating the Administration website
  + Find a way of authenticating logged on users
    - So that only users who have successfully logged in can make requests to the API
* Connor
  + Implement further API functionality that works with the charts
  + Further develop the graphs for better visuals and functionality
  + Discover more API’s for live and historical data and document them
  + Create and document chart design in conjunction with other pre-existing companies graphs
* Dan
  + Continue development of Twitter app by implementing method for selecting posts.
  + Begin implementation of analysis of posts to determine their content.
* Mehmet
  + Finish post end-point to send data to the storage table
  + Research into the functionality of get end-point to retrieve data from storage table
  + Keep testing end-point until I get 200 OK status response from fiddler indicated that the request succeeded
  + Check azure storage table ‘Positions’ so that data is sent correctly
* 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

Individual review of progress:

* Dexter
  + Completed unit tests for Login and New account
  + Updated architecture diagram based on feedback
  + Did not do any continued investigation into Identity as getting the password hashing done felt like a bigger priority
* Connor
  + Successfully fixed chart issues that were produced last week
  + Some functionality is created for external API data but hasn't been tested or implemented due to chart issues hindering testing as well as need for creating keys from external API’s
  + Documentation for API’s started but not finished due to ongoing development and research into area
* Dan
  + Carried out research into getting historical data from Reddit and Twitter APIs, more research is necessary.
  + Created separate tables in Azure Table Storage for Twitter and Reddit.
  + Implemented storage of posts from twitter in table storage
  + Implemented storage of posts from reddit in table storage
* Mehmet
  + Didn’t quite finish what i intended but started getting a better understand
* Niro
  + Implemented UI requests from other members into conceptual UI Design table
  + Additional Pet Project - Research into comparison of user portfolios so users can compete and compare current investments with friends. Allowing the website to display investment data for multiple users side by side so that users can compare their investments with others - innovative
  + Created a sign-up interface function using javascript, requires some minor amendments
  + Research to ensure experience for the user knows exactly what to do efficiently and effectively
  + Matched user interface with user stories
  + Get UI request for graph

Notes:

* Niro needs to define his new pet project
* Dan needs to work on twitter stuff
* Dexter find another pet project
* Plan data obtaining - Dan + Connor