Bi Weekly Report 4
COMP204P - Systems Engineering

Group 31

Marc de Fontenay
Mohammad Afsharmoqaddam
Jas Semrl

Nuffield Health & Microsoft Project

Overview of progress

22nd of November 2016

This meeting was with Paul from Microsoft. We presented our final architecture and it got approved and confirmed by Dave Baker and Paul. We asked him questions about guidance on authentication for the web app. Paul suggested we go on working on personas for our product and think of user stories to add client focus to our website and report. This was also meant to increase our understanding of the business benefits of our app for Nuffield Health.

25th of November 2016

This was a planning lab session. We identified three core areas that we had to complete for next week. We agreed on next week being a 'sprint' week with tasks to be completed. Website, user stories / personas and experiments were defined and assigned.
Here, we also showed our Gantt chart to our TA Mirek as he requested - this showed our progress and organisation of workload.

28th November 2016

This is a Skype meeting with Alex Matei from Nuffield. This was a good occasion to update Alex on recent progress we'd made on the Active Directory and Message Queue front as he'd been on annual leave. We arranged a face to face meeting for the following Wednesday.

30th November 2016

This meeting was with Alex and team 30. Diana Darie - Alex Matei's mentee - was present and we discussed the integration of her app to our project. Frameworks like the Xamarin which could give us a cross-platform capability were mentioned. We got an update on the other team's progress and presented our work on experiments ahead of Friday's meeting with Paul from Microsoft.
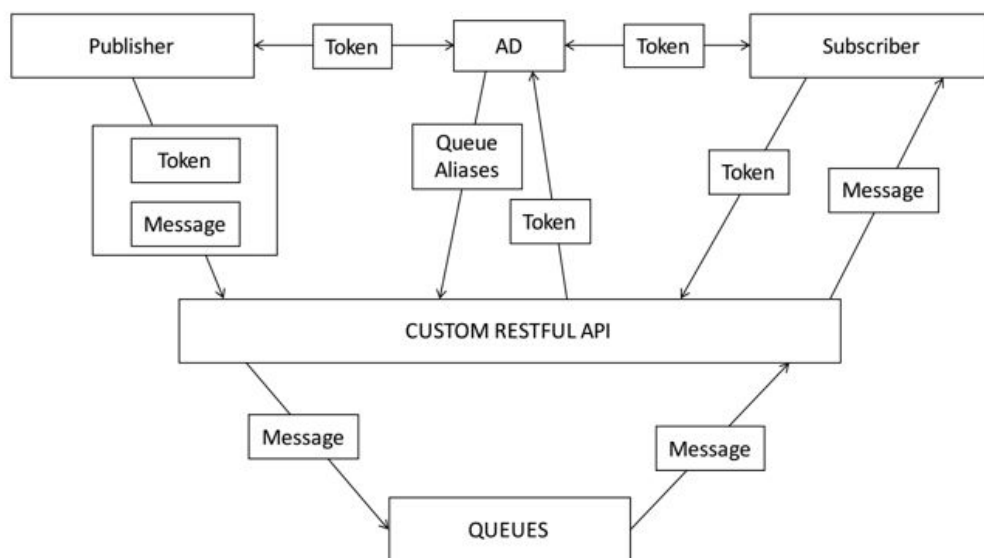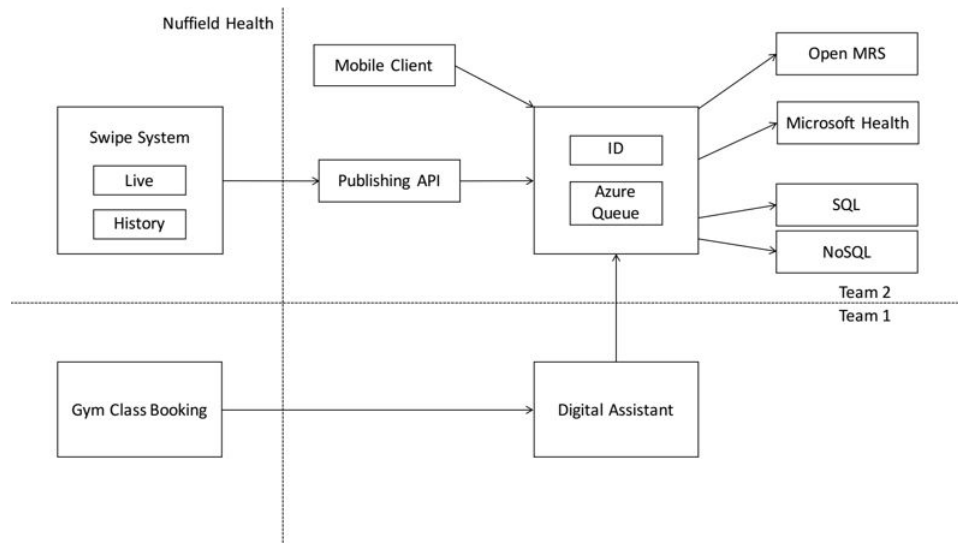
We presented our final and detailed Authentication and message queue architecture design. A challenge here was to correlate our architecture with the one of our partner team - the team using Cortana. We showcased our final work on personas and corresponding storyboards to appear on the website and pointed out the key features and business advantages. This received positive feedback from our clients as they understood and clarified both the system and its purposes.

We gave them an update of the current state of our experiments. On the authentication front, we made them aware of certain difficulties we encountered in implementing the facebook login on the ASP.NET template and Paul offered us to get in touch with technical resources and Dave Baker.

The outlook following this meeting comprised two main objectives : Finalising experiments and updating the website with corresponding results, as well as start building a prototype with a potential collaboration with Diana Darie's swift project.

Architecture design approved by clients

Nuffield Health

Mobile Client

Open MRS

Microsoft Health

Swipe System

Live

History

Publishing API

ID

Azure Queue

SQL

NoSQL

Team 2

Team 1

Gym Class Booking

Digital Assistant

Individual section

Marc de Fontenay : started experiments on access policies, and Identity providers within ADB2C with the main objective of integrating Azure AD into a web application using OpenID Connect, registering Facebook as Identity provider and enabling login to ADB2C in order to add identities through the Facebook API. Explored ways of providing tokens for consumer-publisher RESTful API mechanism. I also built Corporate personas and corresponding Nuffield Health Corporate storyboards. Reached out to Diana Darie to start working on integration of her work using a node.js configured server.

Mo Afsharmoqaddam: Started experiments on the database on the VM in azure, I started and created a database, creating tables and sample content for testing purposes. I have started my research and explored ways into creating an automatic script to pull data from the messaging queue to populate the mongo. I contributed to completing the data visualisation and machine learning research, background and context and added it to the website. Furthermore, I contributed and built personas and user story boards corresponding to Nuffield Health Customers.

Jas Semrl: I have started experiments on Message Queuing and successfully completed the setup of the queues. I have also come up with a proposal of a mechanism for publishing/retrieving data from the queue and started its implementation. I have completed its basic implementation, but it needs to be further developed before deployment. I have also contributed to the website material including research documents and summaries, personas, user stories, requirements and experiments.

General Tasks:

- *Finish all experiments and compose documented reports on outcome of each experiment*
- *Populate website with all the relevant documentation and resources in our disposal*
- *Start creating initial prototype of product*
- *Continue editing final report using LaTeX*
- *Attempt at integrating Diana Darie's work with ours and explore node.js server configuration*