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Overview

Over the past two weeks, we carried on working on our HCI assignment. However, after finishing the UX section, we focused on the UI, including prototype, video demonstration, heuristic evaluation, user testing, prototype iterations, and further developments. Also, we met with the internal supervisor of our project, Dr. Delmiro, where we discussed the future development of the app in further details after he received the response from NeuroResponse.

Meetings

3rd of November 2017

During the previous meeting with NeuroResponse and Dr. Delmiro, we didn't come up with a solution for where to host the application. Therefore, we decided to start research on APIs and Databases while waiting for the response from NeuroResponse. After Dr. Delmiro receives the response from NeuroResponse, we met together to discuss the further developments of the app. According to Dr. Delmiro, InHealthCare could not provide the back-end server for us to use. Alternative solutions could be, use the NHR server which will be deployed at UCL during mid-November, or wait for NeuroResponse to find a reliable back-end solution. Meanwhile, we will start to develop a prototype which could be integrated with iOS and Android apps.

Achievements

1. Finished the UI section of the HCI assignment and deployed the HCI website on UCL server.
2. Met with our UCL point of contact and discussed further development of the app.
3. Light research was done regarding the APIs and Databases.

Problems to solve

1. Wait for the NHR server deployed at UCL in the coming weeks, as well as the NeuroResponse solution.
2. Try to deploy a prototype of the back-end.
3. Try to integrate the prototype with iOS and Android mobile apps.

Our plan for the next 2 weeks

1. Further research on APIs, back-end development technologies, and others.
2. Start the implementation of back-end prototype.

Individual Reports

Sanzhar Aitimov

After reading a research paper on MS and applying knowledge received on the HCI lectures, I came up with an alternative UI design for Symptom Check section of our app, as an old design might be a bit challenging to use for people affected by tremors. I have also done sketches of possible UI design and helped my teammates with contents for the HCI website.

Miquel Rigo

I've done a bit of research on how to design backend APIs. The most feasible solutions seems to use a a server with node.js with MongoDB as database. Probably will use the standard HTTPS protocols for the requests as it seems the most secure option. On the other hand, for user authentication we'll use web tokens, such as JWT.

I've tried implementing a server with a TLS certificate, a node.js server with MongoDB and authentication with JWT and it worked. Now, the challenge will be to implement it within the whole infrastructure.

Elvinia Cui

After doing the user research with my teammates, I came up with the second iteration prototype using wireframe.cc. This iteration contained limited details of the features but implemented most of the highlights summarised during user research. After that, I did a heuristic evaluation using the second iteration prototype. I also conducted two sets of user tests using the Thinking aloud technique. The results of the user testing and heuristic evaluation were then used by Sanzhar to create the final iteration of the prototype.