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Overview

Past two weeks were mainly focused on finishing the front-end development for iOS app and designing the back-end structure. This includes how we store different types of data, how we process them to create new information, what data should be stored locally and what store in the database, and how to choose the correct amount of data to be collected.

We carried out two meetings, one within the group to discuss the back-end structure and one with the client for the server and app deployment

Meetings

6th of December 2017

In this group meeting, we were discussing how to collect, store, and use the data efficiently and effectively. For example, store integer only for questions in the form of 'yes or no' instead of the actual words and create an extra area to place the comments from the user. This will not only let the data recorded easily for us to read, but also easy to process in the future. The time interval when collecting the user capture on Android app is also a good point and needs to be considered carefully.

8th of December 2017

In this meeting with Dr Delmiro, we knew that we will deploy our app on UCL server, possibly with NHS approval. And the server will be located at 4th floor in Malet Place Engineering Building and be ready at the end of January. After Christmas holiday, we will be focusing on creating a feasible back-end solution, integrating with iOS and Android app, deploying the apps and start collecting data for future analysis.

Achievements

1. Finished front-end design for both Android and iOS app.
2. Basic backend re-done in Django using *django-rest-framework*.

Problems to solve

1. Try to deploy a prototype of the back-end.
2. Think about security of the data transmission and storage.
3. Fixing minor bugs with UI and possible bugs coming with the backend integration.

Our plan for the next 2 weeks

1. Have initial components of the backend done for testing
2. Test the backend and its integration with iOS and Android apps

Individual Reports

Sanzhar Aitimov

Added settings menu to the app. Made options to switch between two Symptom Check test designs (with tabs or with navigation drawer), exiting tests on double tap of back button or showing warning message. Also added option to change text size, which is not synchronised with system text size option, so users can adjust those two parameters as they desire.

Miquel Rigo

I've have completed the basic backend server. We have different endpoint according if the user is a patient or a clinician. A clinician can register new patients, and a patient can create record symptoms and side-effect checks.

Although Basic Auth is working I want to try to implement token authentication. This is going to result really useful for the mobile clients because in this way, we won't have to use login credentials, but just a token.

Elvinia Cui

During the past two weeks, I was working on the back-end design. Considerations include: how to structure data collected at different time, location; what type of data should be collected and what should not; where to store the data and how to present them; how to reduce the data collected for user capture and research kit as much as possible and ensure the usability of the data at the same time.