

Bi-Weekly Report: NeuroResponse

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Overview

Past two weeks were mainly focused on the front-end development for both Android and iOS platforms. The UI design for both platforms are finished, and the design conforms to the research and testing we've done for the HCI assignments and improved the user experience and usability to the maximum.

We also implemented user capture features for Android app to catch the small details of the user when using the app, for example, whether the user's hand is shaking or if he took a time longer than usual to finish a symptom check. These data will be collected while the user is using the app, and stored in the database for further analysis of his physical abilities and body conditions. And for the iOS app, we still need to implement the Apple Research Kit to perform similar features to the Android app.

We carried out a meeting within the group for the front-end development of the apps.

Meetings

22nd of November 2017

In this group meeting, we were discussing the solutions on the implementation of motion capture for the app and how we're going to use these data collected. For the Android app, we found an open source library where the time, location of the user using the app, and the position of figures on the screen will be collected. And Apple has a well-developed research kit which can collect the data we need for the analysis.

We're also waiting for the reply from Dr Delmiro about when and where our app is going to be deployed.

Achievements

1. Finished UI design for both Android and iOS app.
2. Finished front-end development for Android app, implemented user capture feature.

Problems to solve

1. Apple Research Kit implementation for iOS app.
2. Try to deploy a prototype of the back-end.
3. Think about security of the data transmission and storage
4. Fixing minor bugs with UI and possible bugs coming with the backend integration

Our plan for the next 2 weeks

1. Have Apple Research Kit implemented and front-end finished for iOS app.
2. Have basic structure and initial components designed for back-end.

Individual Reports

Sanzhar Aitimov

I have finally implemented alternative UI design for Symptom Check and have decided to transmit floating action buttons menu to the initial design. Hence both UI designs are adjusted to ease patients experience. I have also made minor fixes to Side Effect Check UI layout. Added custom listview layout with icons to the notification setting dialog window menu.

Miquel Rigo

I've changed my mind about the backend technologies and from now on, we are going to use Django for the server and PostgreSQL for the database engine. The main reason why we are switching is because there were issues using mongo-engine and Node.js.

With Django, a basic RESTful api can be obtained pretty easily using *django-rest-framework*. Now, I'm currently reading the best practices to provide a secure RESTful API with this framework. Next step will be to re-do again the basic structure and implement authentication.

Elvinia Cui

During the past two weeks, I was cooperating with my teammates, helping them to get the front-end development done for iOS and Android app. At the same time, I kept on learning back-end technologies and started to plan for the back-end solution after Christmas, so I could be more fluent when facing the actual development.