Team 41
Bi-Weekly Report
UCLH Peach & Microsoft : Tools

German Mikulski, Nancy Amelia, Yuan Pan

27/02/2017 - 10/03/2017

Overview

Progress summary

Over the past two weeks, we have made a substantial progress in creating the final version of our system, implemented in React.Js. Core of our system logic - communication with EHRScape backend (fetching and postin templates, transforming XML into JSON) is now ready. In addition, a lot of work was done on the UI side - e.g. we added header components and the sidebar component containing a list of available templates. To facilitate this, we made use of external libraries such as React Bootstrap and various npm packages. Initially, we had difficulties migrating our pure JavaScript code to React framework. However, we have managed to overcome these difficulties.

Successes

- Researched about React.Js, Redux, and Electrode components.

- Researched about relevant npm React packages and other useful libraries.

- Finalised form builder design mockups and developed several UI components for the form builder.

- Developed Form builder backend connectivity and functionality.

Issues

- Routing for static components between pages in React.Js

- UI design is still being developed

Meetings

30/02/2017

In this meeting we went over the plans of what we need to achieve in the upcoming two week sprint. We assigned each team member to a piece of work which was due to be completed. Also we reevaluated design structure of our system, taking into account the fact that React.Js components work differently from what we expected. We then went through the Electrode documentation on the official website to ensure everyone is capable of using this library.

06/03/2017

This time, we discussed techniques we have been using so far and also exchanged ideas based on the previous experience of using Electrode and came up with the conclusion that coding without Electrode with pure React.Js will be more efficient. Therefore, we migrated our development to this platform.

Future plans

- Complete presentation slides regarding our project progress

- Link between the user interface components and backend system of our website

- Develop more backend components of the form builder such as the parsing in React.js

Individual reviews

German

The core piece of work to which my attention was drawn during these two weeks was creating the logic of template handling in our system. This included several steps: initially the template is received as a raw XML file, which is parsed to extract id of the template. Then, a connection to EHRScape is established, which allows sending the template to the server. Later on, the template is retrieved in JSON format which will create a basis for our "Template object" that is going to play a central part in our application. In addition, I helped the rest of our team to enhance understanding of how React.Js works and how there principles can be practically applied.

Nancy

Over the past two weeks, I have been in charge of developing the user interface components. I have created both sidebar and header component for our project user interface. I researched about drag-and-drop functionalities in our form builder and experimented with React.js bootstrap components. Moreover, I drew few sketches regarding the design of the team website as an initial prototype. Lastly, I researched about integrating React.js functionalities with Redux and completed several online tutorials regarding react and redux.

Angela

During the past two weeks, i have been learning how to use reactjs and npm web packages to gain a better understanding. Also i have been trying to code according to tutorials and modify code into a template that is going to fit our code and make a simple basic demo of the front end. I have also been trying to learn how reactjs works in manipulating data and how it is different from pure javascript so i can transform the generator in javascript into reactjs.