
Pathways: Bi-Weekly Report 4

George Pîrlea, Shivam Shah

March 11, 2016 – March 25, 2016

1 Overview

Over the past two weeks, we have been working on implementing the requirements we have chosen for our second sprint (patient timeline, embedding videos and images in documents), as well as fixing some outstanding bugs and improving on the work we have done for the previous sprint.

Progress has been a bit slow, but not unexpectedly, as we had less time available for working on the app due to other course commitments and end-of-term deadlines.

2 Meetings

Mar 15: Discuss development plans in light of other deadlines

Attendees: George Pîrlea, Shivam Shah

- Discussed other deadlines and agreed to meet Wednesday and Thursday
- Time to finish development and write reports during break

Mar 16: Wednesday lab meeting

Attendees: George Pîrlea, Shivam Shah

- Shivam finished confirmation dialogs feature, but outstanding bug remains when saving a document
- George tested the document locking feature and merged it into the codebase
- Researched possible options for timeline UI

Mar 17: Thursday lab meeting

Attendees: George Pîrlea, Shivam Shah

- Pair programming trying to solve bug when saving a document
- No Skype call with Sarah on Friday

Mar 18: Discussed deliverables

Attendees: George Pîrlea, Shivam Shah

- Powerpoint slide (poster) uploaded on Moodle by April 20th
- Final presentation: April 27th, have to be on site to present app and answer questions
- Final report: note client feedback, document user testing procedure, suggest features or improvements for next team, show research of technologies, design patterns, docs for app, talk about Vagrant

Mar 23: Meeting with Dean

Attendees: George Pîrlea, Shivam Shah, Dean Mohamedally

- Dean thought we were working on integrating Pathways with openEHR, but that was not the case
- George will attend openEHR training workshop on March 31st and April 1st
- Agreed with Dean to try our best to include doctor notes for patients with image overlay and at least mock-up function for integrating data with openEHR
- **Further action:** e-mail Sarah and ask her to clarify situation with Dean

Mar 24: Thursday lab meeting

Attendees: George Pîrlea, Shivam Shah

- Pair programming: fixed document saving bug (due to weird interaction between JQuery and Turbolinks) by installing `jquery-turbolinks` gem
- E-mailed Sarah about Dean openEHR confusion

3 Completed tasks

1. Finalised confirmation messages for all non-reversible actions in the app
2. Fixed document saving bug
3. Replaced document editor (formerly Quill) with TinyMCE; now supports image and video embedding
4. Revamped image upload functionality
5. Researched possible implementations of the timeline UI

Progress over the last two weeks has been a bit slow, but we will be getting up to speed and finishing the app and associated deliverables over the break.

4 Plan for the next two weeks

We will be implementing the remaining requirements (patient timeline and, after our discussion with Dean, notes from doctors to patients). George will be attending an openEHR workshop on March 31st and April 1st. Before our meeting with the clinical team on April 4th, we will prepare the app for user testing and also develop mock-ups (and potentially implementations) of various patient timeline designs for the clinical team to vet.

5 Individual reflection

George: My main accomplishment over the last two weeks has been replacing the old Quill editor used for document editing within Pathways with TinyMCE, a modern and more feature-rich editor. I've had some difficulties configuring the TinyMCE package and making it work with the templating engine used in Pathways, as well as difficulties in integrating the existing image upload solution with TinyMCE. Fortunately, the work has paid off and document editing in Pathways is much more intuitive, and crucially, documents can now contain embedded images and videos. In addition, I've also been looking at various possible designs for the patient timeline, but we will have to run them with the clinical team to see which one would be best.

Shivam: For the past two weeks, I continued working on requirements for the Pathways app. Over this duration, I have encountered many issues with the code such as forms being submitted without confirmation dialogs, and so as a result I learned some JavaScript in order to try solve this problem, as all past attempts at using HTML and Ruby were not very effective. By implementing JavaScript, I managed to solve the problem with forms submitting with a confirmation dialog, however it introduced a new problem of pages not rendering/loading the JavaScript or confirmation modals. On the first attempt of form submission it would submit without confirmation, but after a page refresh it would work as desired. Some research found the problem to be Turbolinks which is integrated JavaScript in Rails 4.0 that in essence alters the contents of a loaded page. By installing a new gem file JQuery-Turbolinks, this problem was fixed and thus I was able to tick off two requirements.