

TEAM 36: UCLH PEACH and Microsoft - Cancer Team

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Project Overview

In the last two weeks, we experimented some of the solutions we have found through previous research. Since we had divided the project in three main tasks, each of us conducted the experiments for the subtask and noted down what we observed and what solutions we should use after all of these trials.

We created useful experiments such as:

- For the **Role-Based Access Control**, the experiments went well and we managed to actually connect remotely to Azure Active Directory and to create custom roles and assign it to users. After 3 experiments, we are sure that using Active Directory will be good for our project and that we can actually integrate it with Apache Shiro or a similar authentication tool.
- The first experiments conducted for the **Internal Messaging System** helped us to choose the right tools for this component of the project. Alongside with these experiments we made some experiments on different open source chat platforms which led us to deploy a functional and default version of the messaging system which is now accessible online.
- Regarding the **Collaborative Document Editing Tool**, our experiments tested a variety of open source tools that we could use for our purposes. Some of them proved not be suitable, but some were really nice and seemed usable. Finally, we agreed, after a series of experiments that FirePad is the tool to use at it is easy to implement, while having all the functionalities we need.

After noticing all of these, we formed a very good understanding of what should be used in our project and we are pretty convinced that this is the way to follow in the future.

Finally, we updated our website with the experiment logs and added extra descriptions in order to make everything clear. We showed this to the TA and to our client in order to receive feedback of what we should do next.

Meetings summary

Meeting #1, Cruciform Building, 21st November 2016

Description: We met in order to decide what we should do in the following weeks. We agreed on conducting more experiments and collate them with the few ones we have done so far. We decided that each of us should do experiments for their subtasks and ask for feedback from the client from time to time.

Meeting #2, Skype Call, 26th November 2016

Description: This was a brief meeting about our progress and what we have done until now. Everyone presented what we have so far and we agreed that everything looks good so far and that we should keep going on the same path until the next meeting.

Meeting #3, Cruciform Building, 30th November 2016

Description: We discussed about the experiments we conducted so far and what conclusions we had. Each of us came up with possible improvements and expressed their thoughts about what everyone has done. After reaching a consensus, we collated everything in one file.

Meeting #4, Engineering Cafe, 1st December 2016

Description: We updated the website and improved it as much as possible for the TA demo. We added our experiment log, changed some styling issues and modified some of the text we had in order to be more specific with our recent discoveries and thoughts.

Meeting #5, MPEB 4.06, 2nd December 2016

Description: We met during our normal lab session and demoed our improved website to our TA. Furthermore, we discussed about what improvements we have made and our experiments with both the TA and the client, receiving a positive feedback.

Tasks completed and project progress

- Conducted experiments for each of the subtasks
- Tested how Azure Active Directory is working with remote requests
- Tested various solutions for the collaborative document editing tool
- Tested Rocket.chat to see if it can be used as an internal messaging tool
- Updated our team's website with an experiment log
- **The project is running on time**

Problems to be resolved:

- Find a suitable and easy way to implement the authentication tool
- Find a way to create a submit button which stores the input of the collaborative text component in a DV_PARSABLE data type field in openEHR
- Find a way to deploy Rocket.chat with customised features.

Plan for the next two weeks

In the next two weeks we plan to create at least one initial prototype for each of our team's components. This way, we can present at least one version in which the authentication, the internal messaging system and the collaborative editing component should be designed or built. Moreover, we will continue to do different experiments of our systems, while making sure that various functionalities are taking into account when our components are being created. Finally, we will update our website with the result of the experiments and with other details about our progress.

Individual contribution

Ovidiu-Horatiu Ilie

In the last two weeks, I coordinated the team towards conducting experiments and noticing the outcome of them. I arranged meetings with my teammates and planned carefully the timing for the experiments we were supposed to do, by checking the progress from time to time. Moreover, I focused on conducting experiments for the *role-based access control* part of

our solution. For this, I tested how Azure Active Directory can be used in an authentication system. I tested a lot of functionalities from Azure CLI such as adding new users, changing their role and adding permissions. All of these can be further used with a Rest API request.

Georgiana Birjovanu

Since our last report, I started to make use of all the research I have conducted in the last month. After identifying the plausible solutions for the collaborative text editing component, I focused on implementing several possible solutions. This way, I gained a more in depth understanding about the advantages and disadvantages of each one of them, being able to differentiate their systems and usage. I have also carried out various experiments while analysing a set of four different collaborative text editors. At the end of my experiments, I started to write down the conclusions that I integrated on our team's website.

Berat Baran Cevik

In the past two weeks, after completing comprehensive research on open source chat platforms and considering the requirements, the client and I decided on Rocket.chat as the base of internal messaging system. I deployed the default Rocket.chat app to an Ubuntu server on Azure. I started exploring Rocket.chat's code to customise it regarding internal messaging system's requirements. I started customising Rocket.chat. I also attended meetings with our team to discuss different aspects of the project including Graphical User Interface and planning the tasks for the next two weeks. In the next two weeks, I will continue exploring Rocket.chat's code and customising it.