

TEAM 36: UCLH PEACH and Microsoft - Cancer Team

Date: 10.02.2017

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Project Overview

As we decided previously, in the past weeks we started building all of components (Login System and Role-based Access Control, Internal Messaging System and Collaborative Document Editing) and we are developing them simultaneously as we aim to have them ready to integrate at the end of the project. We had roughly decided what features to implement before the next report and we have followed the plan so far. As time passed, we made some minor changes in the plan to make it easier and more efficient to follow or to adapt it to our availability to work or make progress.

We have followed Agile patterns by doing sprints in which we develop our product and by meeting between these sprints to evaluate the past sprint and to plan the next one. All the components have been further developed: the implementation of the login system started, with a first basic solution being available on a local machine; the customization of the messaging system began, with some things still remaining to be fixed before a working solution; for the document editing, at the requirements of the client, the Firepad solution had to be changed to Etherpad (since the first one would have requested moving the patient data to another database) and an Etherpad initial solution was created, along with a cloud VM on Azure.

Apart from the technical improvements, we also checked the status of our work and established what has to be done next. We also presented some diagrams about the system to the client and we also kept in touch with other teams and with the client.

We are happy with the progress made so far and we will try to implement more of our solutions in the next weeks. Finally, we will try to create some Medium posts, at the client's request, where we will present the work we have done so far.

Meetings summary

Meeting #1, MPEB 8th Floor, 30th January 2017

Description: We met to evaluate the past two weeks and make a plan for the next two weeks. We informed each other about the progress that we had made and we specified the features to work on for Login and RBAC System, Internal Messaging System and Collaborative Document Editing. We also helped each other to solve some minor technical problems that we had with our components.

Meeting #2, MPEB 8th Floor, 1st February 2017

Description: The main point of discussion at this meeting was the possible problems that we might encounter in the future. We detected these problems for all our components and discussed possible ways to solve these problems.

Meeting #3, Cruciform Basement, 2nd February 2017

Description: We had a meeting at Cruciform Basement about deploying our components to Azure separately and also as a whole web app. We helped each other with our deployment issues. As our parts are some of the important parts of the project we decided to work closer with other teams.

Meeting #4, MPEB 1.05, 3rd February 2017

Description: We met at the lab during the our team's lab session. We had a talk with our client to ask our questions about our components and show him the stage that we were in at the time. We also solved some minor issues with our parts and arranged the next meeting.

Meeting #5, Skype Call, 5th February 2017

Description: We had a Skype Call since some of our members were not in UK for the week to discuss what we had done in the past week and to plan this week. We mainly talked about how to integrate our parts at the end of the project and arranged our next meeting.

Meeting #6, Skype Call, 9th February 2017

Description: We had a Skype Call, since neither of us were able to attend the lab session on Friday, to discuss and evaluate what we had done in the past two weeks. We also talked about our plan for the Reading Week since it is going to be a very important process in this project. We wrote the bi-weekly report during the call as well.

Tasks completed and project progress

- Authentication with Shiro started and partially implemented on local server.
- Rocket.chat customisation mostly finished for Internal Messaging System
- Implemented Etherpad, tested it and created a virtual machine on Azure
- Made a plan for the reading week
- **The project is running on time**

Problems to be resolved

- Finishing Shiro local deployment and try to deploy and connect it in a cloud app.
- Internal Messaging System manual and continuous deployment
- Internal Messaging System implementation of different profiles with different access permissions
- Adapt the interface of Etherpad in order to meet the requirements and deploy it on Azure
- Find out how the elements created by the "Front end" team are going to be integrated with our three components

Plan for the next two weeks

In the next weeks, for the login system, we would like to make a cloud version which will allow people to authenticate. Apart from this, we will also try to provide, or at least start building, a web service which other PEACH teams can use for managing user's authentication.

Customisation of Rocket.chat will be finished in terms of GUI and we will concentrate on different user profiles with different access permissions which is vital for Internal Messaging System. Also manual deployment to Azure will be resolved.

For the real-time collaborative text editing tool we need to deploy Etherpad on Azure and implement other specifications for the backend. The interface of Etherpad also needs to be adapted to our project, so we need to communicate with other team's members in order to synchronise our work.

Individual contribution

Ovidiu-Horatiu Ilie

In the last weeks, I have been working mainly on the Apache Shiro implementation. I started a local solution, by following the Shiro documentation and managed to create some logic for authenticating users. For this, I have used the Shiro source code and also the Apache Maven tool (Java project management tool). Apart from that, I have created high-level and UML diagrams about the authentication system and I presented them to the client. Moreover, I was contacted by someone in another PEACH team and provided information about our current work. I also took part in meetings with my teammates and helped at creating the report and building a plan for the reading week.

Georgiana Birjovanu

After the last meeting with our client, on the 1st of February, we realised that we cannot continue using Firepad anymore as the main technology for the collaborative text editing tool. The reason of this decision is that it would have caused legal issues when moving the patient data on a separate database (as the Firebase backend would have implied). This is why, we have checked the list with solutions and experiments conducted by me and agreed to replace Firepad with Etherpad. This is why, in the last week I have implemented Etherpad locally, using a mysql database and tested it on different browsers to see if the real-time collaborative function is working. The next step was to create a virtual machine and a mysql database on azure.

Berat Baran Cevik

In the past two weeks, I customised some parts of Rocket.chat by following the customisation plan that I prepared previously to organise Internal Messaging System's development process. The tasks that I completed are replacing Rocket.chat logos with PEACH logos, putting "PEACH" name where necessary, removing unnecessary parts and creating different users with different access permissions to simulate login and role based access control. I got some feedback from our client with regards to the changes I have made on the app. For the next two weeks, I am going to customise the app further considering the feedback that I got from our client and my customisation plan.