

## **TEAM 36: UCLH PEACH and Microsoft - Cancer Team**

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**Team Members: Ovidiu-Horatiu Ilie, Georgiana Birjovanu, Berat Baran Cevik**

### **Project Overview**

Since the beginning of the second term, our team started developing a clear plan of how to implement the solutions identified in the first term. This meant that we had to see exactly in what order our components will be implemented and what we have to achieve in both the short and the long term. We decided that we need to start building the 3 components (authentication, messaging system, document editing) at the same time since, in this way, we will have all the components ready to integrate at the end. As in the previous term, each of us will be responsible for the development of one component and we will meet regularly to see what everyone has achieved.

We also decided to adopt an Agile strategy, by setting short term goals which we should focus on and then, depending on the outcome of our work we can set new goals or re-iterate through our solutions. On the short term, in the next weeks, we plan to develop usable versions of the subsystems in order to test them out and overcome the problems which will appear. On the longer term, we will try to improve our solutions in order to make them easy to integrate in the PEACH platform.

Apart from creating this plan and discussing how each of us should come with some iteration in the implementation until the next report, we also had to meet with members of other teams to let them know exactly how we plan to implement everything, how long we estimate this will take and how they can use it in their systems. For this matter, we met with representatives from 3 teams which have to use the authentication and the messaging system we are building.

Finally, we started to actually implement some of the features and to come with a basic version as soon as possible. Hopefully, in the next two weeks, we will be able to build those versions and to test and discuss them with the client.

### **Meetings summary**

#### **Meeting #1, Engineering Cafe, 16th January 2017**

**Description:** We met after the Christmas break in order to make the plan for the next weeks. We decided broadly what we should develop on both the short and long term and we also agreed to meet regularly to check the progress of the work. We analysed what everyone has to do, how long an easy implementation will take for each of us and how fast we can achieve the implementation of the whole system.

#### **Meeting #2, Skype Call, 18th January 2017**

**Description:** We discussed about any problems we suspect that can arise through development and established what we implementation we should provide on the short term. We agreed to come up with very basic versions of our solutions as soon as possible and then, after receiving feedback, to iterate them. We also started our PowerPoint presentation for the elevator pitch and agreed what to include in it.

### **Meeting #3, MPEB 1.05, 20th January 2017**

**Description:** We had our lab session during which we met with other teams and discussed the plan each of us has. We got up to speed with every project and realised that our parts are critical for some of the other projects. This is why we decided to finish our project as fast as possible.

### **Meeting #4, MPEB 8th floor, 20th January 2017**

**Description:** We met to properly practice the elevator pitch presentation for making sure that we will give the best perspective on our project during the 2 minutes slot we had. We practiced our scripts and the overall presentation, before actually showing everything to the clients and the supervisors on the same day.

### **Meeting #5, Cruciform Building, 25th January 2017**

**Description:** We met to see what everyone managed to implement so far. We discovered that small steps forward were made and we decided to keep on doing the good work in the next weeks so that, hopefully, we can have something to test in two weeks time.

### **Meeting #6, MPEB 1.05, 27th January 2017**

**Description:** We met our client after a long break and told him what we have discussed since the start of the second term. We also met our TA and showed him our progress. Finally, we decided to stick to the plan we had so far and to implement what we want until the next report.

## **Tasks completed and project progress**

- Implementation of the authentication in Apache Shiro started
- Rocket.chat customisation started for Internal Messaging System
- Started implementing the Firebase backend for the Firepad editing tool
- Presented our progress and our ideas to other related teams within PEACH
- Made a development plan for the short term scenario
- **The project is running on time**

## **Problems to be resolved**

- Finishing Apache Shiro implementation and deploying a working version
- Rocket.chat manual and continuous deployment
- Rocket.chat customization to the PEACH needs
- Firebase backend integration within Firepad frontend
- Find out what database the PEACH "Core" team is planning to use

## **Plan for the next two weeks**

In the next two weeks, our main focus is to create a functional back-end for our three components. Our team will be working on creating a basic authentication on Apache Shiro,

while also testing it by deploying it on Azure. Regarding the internal chat messaging, our main goal is to create mock users with different access permission in order to customise the rocket.chat to fulfill the initial specifications. Moreover, the real-time collaborative text editing tool needs to be improved, with a working Firebase backend and a more customised interface. Our team will also get in touch with other teams in order to synchronise our work, as some bits depend on the outcome of other teams' work.

## **Individual contribution**

### **Ovidiu-Horatiu Ilie**

In the past weeks, I started to implement the Apache Shiro framework within an authentication system. So far, it is still in development, but, hopefully, a basic version will be ready for deployment in maximum two weeks. Moreover, I met with my teammates and established development plans for the next two weeks and how each of us should provide a working version of our subsystem soon. I, as team leader, also met with other teams and explained what we have in mind and how they can use our tools in the development of their solutions. I was mainly asked to explain how the authentication system works and how other teams can access the Azure AD roles via a request to my component. I also met the TA and our client and discussed actual progress and future development ideas. Finally, I have been working on the elevator pitch presentation and for the reports we had to give.

### **Georgiana Birjovanu**

Recently, I have been working more on the implementation of Firepad. I started to focus on the back-end side of the component, since it requires a more in-depth knowledge of the Firebase technology. This will make the real-time collaborative part possible and allow a faster text update rate for each one of the users that are accessing the specific component. Moreover, I have started to get in touch again with the members of other teams, in order to gather more details about the main back-end of the platform. At the moment, I am searching a way of saving the collaborative notes in the main database. I have also been working on the presentation for the elevator pitch and practiced the speech.

### **Berat Baran Cevik**

In the past two weeks I started customising Rocket.chat considering the client's requirements which were specified last term. I also made a plan for customisation order of chat components for a smooth transformation from default Rocket.chat to PEACH Internal Messaging System. I started working on manual deployment of the chat app on Azure since we are going to need it when deploying customised app. I prepared an elevator pitch presentation with my team and presented it to clients and other teams. In the next two weeks, I am going to continue customising Rocket.chat and successfully complete manual deployment.