TEAM 36: UCLH PEACH and Microsoft - Cancer Team

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Project Overview

Since the last report, we continued developing and improving our implementations for the project. For the authentication component, we managed to create a good working version on a local machine and which can be controlled from the command line. However, the tools still needs to be integrated within a web application on to be deployed on an Azure server. The integration of Shiro within a web application seems a bit complicated, so the client suggested the usage of Keycloak, an easier alternative of which he found out recently. So, in the next few days, we will decide if it is worth to switch to this tool or not and we will start integrating the authentication with the web application.

For the messaging component, we fixed a few issues to further customise the GUI of the internal messaging system. We also tried a few methods to deploy Rocket.chat and we decided that these methods cannot be used or would be very hard to use for this particular project. For the next two weeks we are aiming to find a good way to deploy our chat app on Azure and finalise GUI customisation. Then, we can move on to RBAC implementation by simulating different users with different access permissions.

The collaborative document editing is on the right track as we have created a working Etherpad solution which is working along with a MySQL database. This is working quite well and we expect to make it cover all of the requirements and deploy it on Azure soon.

Lately, we were quite busy with other university projects, but we still found the time to meet or call each other and check the progress we have made so far. We also started writing Medium posts about our project so that our client can publish them and raise awareness about the importance of our project. Finally, we hope that in the next two weeks we will be able to present fully working versions of the solutions so that we and our client can start testing and improving them.

Meetings summary

Meeting #1, Skype Call, 14th February 2017

Description: At the beginning of the reading week we had a skype call and we wrote down the tasks that each one of us was going to accomplish during the reading week. We also started working on our Medium post where we will present our team's work.

Meeting #2, MPEB 5th Floor, 16th February 2017

Description: We have discussed about the progress that we made during the reading week. We have also presented the working versions of our components to our teammates in order to improve them.

Meeting #3, Skype Call, 22nd February 2017

Description: During this meeting we have discussed about the current problems that our team is facing. Moreover, we have also outlined the most urgent tasks that need to be accomplished. This way, we have created the plan for the next two weeks.

Meeting #4, Skype Call, 26th February 2017

Description: We held this Skype meeting mainly to write this report and plan our tasks after Scenario Week. We decided to speed up our development since neither of us had much time in Scenario Week to work on the project.

Tasks completed and project progress

- Authentication with Shiro successfully implemented on local server
- Started reading about Keycloak as an easier alternative to Shiro for web-based apps
- Almost all bugs fixed which prevented GUI changes
- Some manual deployment methods were deemed to be unfeasible
- Created a MySQL database and implemented it along with the Etherpad solution
- Tested a virtual machine on Azure for the document editing tool
- **The project is running on time**

Problems to be resolved

- Check Keycloak and decide if we should switch to it from Shiro
- Build and deploy a web-based implementation of the system
- Adjust Etherpad to our client's requirements
- Finding the best way to deploy the custom Rocket.chat
- Solve the bug that prevents changing the tab bar name of the chat component
- Test the components so far along with the client to find bugs or possible improvements

Plan for the next two weeks

In the next weeks, for the login system, we have to decide if we should use Keycloak instead of Shiro, as the latter seemed a bit too hard to implement within a web application. After the decision, we plan to have a working version and deploy it online so that the client and us can start testing it early.

For the internal messaging system, in the next two weeks, we will complete manual deployment by solving the problems that we have encountered so far and we will also finalise GUI of the chat component.

Regarding the real-time collaborative text editing tool, in the next two weeks we will deploy Etherpad on Azure. We also have to continue collaborating with the Front End Super in order to adjust our front-end to the main project's one.

Individual contribution

Ovidiu-Horatiu Ilie

In the last weeks, I have been working mainly on the authentication tool implementation. Since the last report, I have made a basic working solution with regard to our requirements on my local machine. Then, I have tried to work it out how exactly this tool can be implemented within a web application and how it can be deployed. Our client also proposed the usage of Keycloak, an alternate solution to Shiro which seems quite popular in the medical system. So, I also had to research a bit and see if this tool would be better than Shiro. Moreover, I also discussed with my teammates and checked their progress so far. In the next weeks, I am planning to finally decide between Keycloak and Shiro and come up with a fully functional version of the implementation.

Georgiana Birjovanu

In the last weeks I have been working on developing the collaborative text editing tool application. As we have changed from the Firepad technology to the Etherpad solution, I started to test out different ways of implementing it. In the end, I have decided to use the mysql database. The component is working and it is meeting the basic requirements. However, multiple aspects need to be implemented, as creating a virtual machine and a database on Azure. My plan for the next two weeks is to adjust the front end characteristics and collaborate with the Front-End Superteam in order to integrate the back-end components with the front-end ones.

Berat Baran Cevik

In the past two weeks, I solved some customisation problems which prevented me to change some images and texts. I achieved this by improving my knowledge in the new technologies that I learnt for this project such as CoffeeScript and Node.js. I improved the parts in the internal messaging system to meet client's requirements after getting feedback from him on these parts. For the next two weeks, I am planning to finalise manual deployment and GUI customisation of the internal messaging system.