

UCLH PEACH and NHS Open Source: OpenEHR Architecture and Analytics

Team 38: Report 5

Sandipan Ganguly

Mengyang Wu

Desislava Koleva

Overview of progress :

Over the last couple of weeks, we made significant progress with our experimentation, documenting our current state of our prototype and updating our website.

Firstly, we documented all our experiments regarding the failed and successful deployments of DC/OS and importing the previous NIFI templates. We also documented the PEACH Generator function tests and created future plans for further experiments. We also did thorough research on Druid and how it works. Furthermore, we wrote down testing strategies that we can use for test the final product such as unit testing, performance testing and functional testing. We also documented our working parts of the initial prototype and created an overview diagram. We created mockup GUI sketches for the improved Generator which we plan to implement in the future. Lastly, we came up with a plan for Term 2. All the documentation has been clearly recorded and can be found in our website.

Problems Faced:

Creating a completely working prototype for Core Analytics. Since our project is very experimental, a working prototype would be the redeployment of the entire PEACH system which is one of the main deliverables of the project itself. Therefore within the short period of time and lack of input data, this was a difficult task to accomplish.

Successes:

Successfully documented the dataflow of our current working stages of our prototype.

Plan for next two weeks:

No.	Task
1	Have a detailed plan to redeploy the system.

2	Fix and redeploy the previous system.
3	Conduct experiment on the data processing speed.
4	Have a brief idea how to improve the data processing.
5	Plan the structure of the video and make the video.
6	Look into data shuffling algorithms for the Generator

Summary of meetings held:

Meeting Date	Who attended	What we did
05/12/16	Sandipan Mengyang Desislava	<ul style="list-style-type: none"> Applied several changes to the existing MoSCoW Core Analytics and Generator requirements based on the feedback from our client Dr Ramachandran Ensured the final set of requirements is clearly defined and unambiguous
09/12/16	Sandipan Mengyang Desislava	<ul style="list-style-type: none"> Demonstrated our website to Dr Ramachandran, Yun Fu and our TA We were given further instructions on what our prototype to upload should include
10/12/16	Sandipan Mengyang Desislava	<ul style="list-style-type: none"> Focused on re-deploying the old system Worked on developing test strategies and creating use cases for the system Created hand-drawn sketches for the PEACH Generator tool
11/12/16	Sandipan Mengyang Desislava	<ul style="list-style-type: none"> Completed the testing strategies and use cases and added them to our website
12/12/16	Sandipan Mengyang Desislava	<ul style="list-style-type: none"> Applied final modifications and improvements to our website suggested by our TA and successfully uploaded it.
14/12/16	Sandipan Mengyang	<ul style="list-style-type: none"> Met with Dr Harry Strange and discussed the current status and progress of our project Showed our design of website and got feedback. Discussed about the future deployment.

Individual Contributions:**Sandipan Ganguly**

During the last two weeks, we worked a lot on the project website. I created a page for our Prototype and documented all the working services we have running. This included creating an overview diagram for our current state of prototype. I also did some background reading on Druid and recorded the information under Research. Furthermore I went over the requirements for core analytics and added more background information to the ones which one were ambiguous. Finally I created the Testing Strategies for the PEACH Generator and core analytics and created a page for them in the Website.

Mengyang Wu

The last two weeks were a busy period for our team. All of us contributed a lot to the project. For me, three main focuses took most of the time. Firstly, I finalised the requirements of the generator with our client, which is our sub-project and main testing tool. Then I turned to help with building the document on our website. According to the suggestions from the teaching assistant, I produced a completed document for experiments based on the experiment log. Finally, before the deadline of the website, I concentrated on extracting pages and deployment of website. There were some problems with our pages, but I solved them and made the pages available on time. In the three weeks' break, I'm going to continue the experiment of redeployment and make the video for my team.

Desislava Koleva

Over the period of the last two weeks, I have been mostly involved in finalising the complete version of our website and the prototype to be submitted. In particular, I have helped with modifying the Overview page, which included adding a project problem statement as well as a more detailed description of our specific tasks and goals. By doing so, I aimed to make sure the main differences between our team's work and the work done by the previous team allocated to this project are clear. Furthermore, following the previous team's documentation and using their mockups as a guideline, I designed a number of sketches for our potential Generator interface. For these, I added some minor enhancements which will be further developed in Term 2.