

# Automating PLORAS - 16/11/2015 Bi-Weekly Report 3

Team 32

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# **1 Overview of last two weeks**

During the last two weeks it was not possible to dedicate the amount of time we had done previously to the project due to the scenario week as well as reading week. Nevertheless, we were successful in completing the tasks we had set out to do. Firstly, a great deal of content has been added to the website, with many sections fully completed, and is being constantly updated. We have finalised the work on the automatic generation of the spreadsheet indicating percentage damage of specified brain regions. This task was allocated to us as described in the previous bi-weekly report by the clients. We have also been spending a lot of time carrying out research for our final solution, specifically on deciding what we shall use to program it.

## **2 Summary of meetings**

Due to scenario week and reading week during the last two weeks, we were not able to meet as often as previously done. Even still, there was excellent communication between the team which meant we were always aware of what was going on and what tasks needed to be completed. This meant we were still capable of producing a high standard of work effectively.

### **2.1 Meeting 1: 06/11/15**

This meeting was set up just before reading week began to ensure we were all up to date with the different aspects of the project. We all attended this meeting which lasted around 30 minutes. During this this we managed to communicate our ideas for the final user interface which included how we would go about programming it. For the team website, we also gained feedback from one another to see which parts of the design could be improved and what content should be added.

## **3 Tasks completed**

With regards to the automatic generation of the spreadsheet, we received from the GUI version of a program created for this procedure from our clients. We came to a conclusion that it is pointless to reinvent the wheel and we have started researching a way of calling call-back functions of the buttons with externally provided parameters such as patients? brain scans, output file location, etc. In order to access the GUI itself from an external script we had to change a few parameters of the interface, so that its handles would be

visible externally. Then we had to analyse the code and find exactly which handles are required for this procedure and which values they should have. After doing so we proceeded with our script that is eventually going to be the part of the final application. For the team website, we have updated it consistently and such it now has a complete Homepage, Background & Context page and Project Management page, barring minor additions. All the sections of the website have also been agreed upon which now means we have a clear structure to our website.

## **4 Problems that need to be resolved**

One of the problems that we had was that there was a disagreement between the team on how the website should be laid out, content wise. However, this was resolved when the person who disagreed managed to explain their reasoning behind the change, causing the rest of the team to agree.

## **5 Plan for next two weeks**

Over the next two weeks we plan to present the task we had been assigned regarding the automatic generation of the spreadsheet to the clients. After this, it is expected we shall move on to work closely with Cathy Price, the PLORAS team leader, concentrating on producing automated predictions for the recovery chances of stroke victims. We also expect to carry out more research with results which will be added to our project website, with some possible development on prototypes. We will also start research on HCI analysis for our final design of the user interface.

## **6 Individual tasks completed**

### **6.1 Daniel Blackwell**

During this period, we first had the scenario week relating to building and maintaining a web application; whilst it was only a simple app, it did give me a fairly rigorous introduction as to what would be required if we choose to go down the route of making our final solution a web app. Obviously this is something that would need further discussion with the client being as it would require some kind of hosting to be provided by them - I will be sure to bring it up next meeting we have, as they do have a skilled IT department who I trust would be capable of maintaining it if they think it helpful.

## **6.2   Jedrzej Stuczynski**

As for me, I have been working on the script responsible for automatically generating a spreadsheet indicating percentage damage of given brain regions without any user interaction. Since we have been provided with the GUI version of the program I had a starting point. Since there was no point in reinventing the wheel, I have been trying to invoke button functions without actually pressing them. However, they also required some data in the handles to be present. Therefore the whole process had to be analysed, button press by button press with each change in the handles noted. I then had to recreate those changes in the script and finally invoke the call-back function responsible for the generation of the spreadsheet itself.

## **6.3   Farbas Miah**

Aside from carrying out research on our final product, I have been primarily working on all aspects of our team website. The basic contents of the website have been put in place with the Homepage, Background & Context section and the Project Management section completed, barring minor additions. In addition to this, I have been working hard in trying to organise our future interactions and work processes so that they are more efficient and much smoother to document. One such way in doing this is by through the production of Meeting Minutes for all our meetings. In the next two weeks, I plan to work primarily on our research so that a large proportion of it will be completed by the next bi-weekly submission.