
Automating PLORAS - 22/2/2015 Bi-Weekly Report 7

Team 32

Daniel Blackwell

Farbas Miah

Jedzrej Stuczynski

Contents

1	Overview of last two weeks	1
2	Summary of meetings	1
2.1	Meeting 1: 02/02/16	1
2.2	Meeting 2: 05/02/16	1
2.3	Meeting 3: 09/02/16	1
3	Tasks completed	2
4	Problems that need to be resolved	2
5	Plan for next two weeks	2
6	Individual tasks completed	2
6.1	Daniel Blackwell	2
6.2	Jedzrej Stuczynski	3
6.3	Farbas Miah	3

1 Overview of last two weeks

Over the last two weeks, two major tasks were worked on. These were the coding of the front end of our system and also an automation task regarding a spreadsheet. For the front end, we worked on setting up every page with a working database that could receive and send data. A working form has been set up which allows the user to upload files and details to the database with an option to delete them. For the spreadsheet task, we were required to filter patients based on the 256 different categories of behaviour.

2 Summary of meetings

2.1 Meeting 1: 02/02/16

During this meeting we analysed the front end produced so far and looked at what needed to be changed or added. The submission form needed to be altered to better utilise our use of Django. Also, some kind of verification would be required to ensure the scan uploaded fits our requirement criteria. Another key detail was on how we would upload the form data to the database and then extract them later on.

2.2 Meeting 2: 05/02/16

For this meeting we looked at the rules and instructions given to us by the clients for the categorisation of patients and the generation of a lookup table. We worked to understand what was being asked of us to automate this job. An email was sent back to the clients to clarify anything we were not sure about.

2.3 Meeting 3: 09/02/16

In this meeting, we mostly looked at what was completed for the front end and the categorisation task. Some improvements to be made were spotted in the design of the user interface and then more tasks were allocated. The categorisation of patients and production of a lookup table was on track and we expected it to be finished within the week.

3 Tasks completed

For the front end, we managed to get a lot of tasks completed. All the required pages for the user interface have been produced with links between each other. A Django Form that takes multiple compulsory and optional fields and writes them to the database has also been set up. In the review page, all the scans uploaded by each user is displayed with an option to delete them and view the results once they are generated. Our task regarding the spreadsheet was about categorising patients and generating a look up table based on a set of rules. These would then allow predictions to be made on the stroke patients. It involved four different steps which have all been completed. Multiple filters were applied based on the instructions such as behavioural and lesion categories.

4 Problems that need to be resolved

One issue that we have is with regards to the upload scan button for the form. We are having difficulty creating an error message when a user tries to upload any file other than a zip.

5 Plan for next two weeks

Although it shall be reading week and scenario week over the next two weeks, some work shall still be carried out on the project. We expect to continue working on the front end to hopefully make sure everything required for the user interface is completed. This shall include a fully functional form with checks to ensure the data being sent is correct. A change password feature shall also be implemented.

6 Individual tasks completed

6.1 Daniel Blackwell

During the last two weeks, I have been working with Cathy on generating the prediction lookup table. To start with, this is being done using excel as it is a tool she is familiar with, making it easy for us both to demonstrate our ideas. Moving forward, this should be done with a database query, but as this isnt something that Cathy has made before it first needs to be drafted and checked over.

6.2 Jedrzej Stuczynski

During this period we have been working on helping with the creation of the look-up tables as well as continuing our work on the Django front-end. I have created a python script that checks if the uploaded zip file contains a valid number of scans. It is going to be useful since if medical staff upload an invalid number of scans, further processing wont be possible. I have also managed to find a way of removing entries in Django models and directly deleting appropriate data from database. Finally I have added a small fix to a form medical staff has to fill in, all the dates they are to provide have the maximum value of the current date.

6.3 Farbas Miah

For the last two weeks, I have been specifically working on the front end. Picking up from where I left off from the previous bi-weekly report, I set up all the pages required for our user interface. I created a form for the user to submit various compulsory and optional fields, including an upload scan feature. These are then sent to the database if the required fields have valid inputs. The uploaded scans are also saved in a specific folder. In the Review page, all the scans created the user that is logged in are displayed with details regarding whether or not the prediction has been made yet.