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# Automating PLORAS - March 4, 2016

## Bi-Weekly Report 5

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### Team 32

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# **1 Overview of last two weeks**

Over the last two weeks, it was difficult to work on the project during scenario week but we continued from where we left off this week. For the front end, multiple tasks were completed, including a change password feature and features regarding the upload of scans. We have also met with the clients to discuss the back end. This shall allow us to set up a virtual machine that will handle the processes required from the web application.

## **2 Summary of meetings**

### **2.1 Meeting 1: 02/03/16**

In this meeting, we organised a meeting with the clients regarding the server side of the web application. This was for us to gain more information on how we would set up a virtual machine to run the MATLAB processes that users request when they submit scans. More information was also needed about the databases that shall be used and of the current patient confidentiality issues. We also allocated some more tasks for the front end to ensure progress continues smoothly.

### **2.2 Meeting 2: 05/02/16**

This meeting was held with the clients present. We were able to clarify some questions we had with regards to the back end. It has been decided that we shall receive a virtual machine to run the MATLAB processes for the patient prediction generation. For the databases we also received further information on how security issues will play a part on the information we will be able to access.

## **3 Tasks completed**

For the front end, all scans are uploaded to a unique location depending on the user name and exact time of upload. A change password has also been implemented that works, although not up to the required standards yet. We have also ensured that the application checks to see if the uploaded file is the correct filetype before accepting it. A community forum has also been created for our project which can be viewed on our team website.

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

An issue that we have been having is trying to check the zip file uploaded to the server to see if it contains the required data. This could potentially be solved by code that was previously written but it has been difficult to implement.

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

For the next two weeks, we plan to complete the latest tasks allocated to ourselves for the front end. This includes fully completing the change password feature, allowing the patient scan results to be downloadable via PDF as well as others. It is also expected we shall get started on the back end after we receive further details for the virtual machine from the clients.

## **6 Individual tasks completed**

### **6.1 Daniel Blackwell**

During this two week period I have been continuing my close work with Cathy Price on producing a working lookup table that will produce reliable and accurate results, this is based on 6 years worth of research; so implementation itself requires precision as well as some heuristics which I hope to have ironed out soon. Using experience from producing the lookup table in this way will be helpful when it comes to converting the process into essentially an SQL query from the PLORAS centralised database.

### **6.2 Jędrzej Stęczyński**

Even though it has been two weeks since the last bi-weekly report, due to the scenario week we could have only contributed one week of our time towards the Systems Engineering project. After the client meeting on the 2nd of March we have managed to clarify certain issues we have had, such as the deployment of the back end, whether it's going to be on some dedicated cluster or on a Virtual Machine. As for my personal contribution, I have continued helping with the front end of the website. To be precise, I have been looking for a way to enforce new password requirements such as need of 8 characters, a digit, special character, etc., if a user decides to change it. I have also been trying to put in the script I have written a while back,

that checks if the zip files contains 176 BUCNI scans that MATLAB uses for further processing and generation of the prediction of the patient.

### **6.3 Farbas Miah**

I have been working primarily on the front end over the last two weeks. In addition to this, I have also set up a community forum for our project which can be accessible via our team website. For the front end, I worked on a few different features. Firstly, I made sure that every scan uploaded is in a zip folder. This is then saved into a unique location depending on which user uploaded it and at what exact time. I have also implemented a change password feature that is working but not yet completed for our needs.