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# Automating PLORAS - USER MANUAL

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## 0.1 OVERVIEW

The ‘Automating PLORAS’ prediction generation service was designed to allow all members of PLORAS to have access to the information that can currently be found with respect to patient language recovery following a stroke. This user manual is split into two sections: the first section is for ‘normal’ users - those that wish to upload a scan for processing and view prediction results for this scan; the second part is for system administrators to help maintain the system.

## 0.2 PRODUCTION TEAM AND CONTACT DETAILS

The project was run by three second year Computer Science students from UCL, we can still be contacted at the following email addresses with regards any issues that cannot be fixed using explanations here:

Daniel Blackwell	<a href="mailto:daniel.blackwell.14@ucl.ac.uk">daniel.blackwell.14@ucl.ac.uk</a>
Farbas Miah	<a href="mailto:mohammed.miah.14@ucl.ac.uk">mohammed.miah.14@ucl.ac.uk</a>
Jedrzej Stuczynski	<a href="mailto:jedrzej.stuczynski.14@ucl.ac.uk">jedrzej.stuczynski.14@ucl.ac.uk</a>

# 1 NON-ADMINISTRATOR USERS

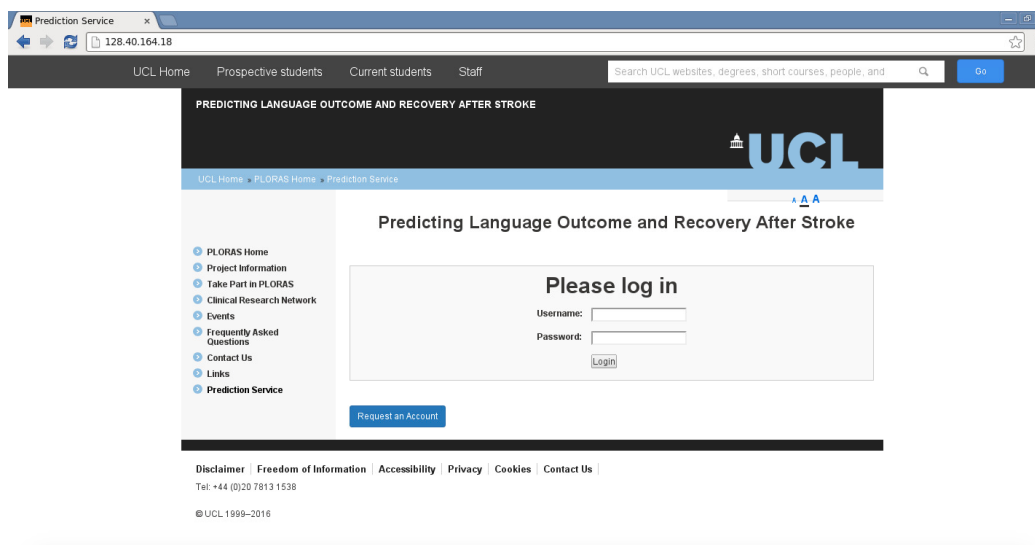
## 1.1 ACCESSING THE SYSTEM

‘Automating PLORAS’ is available as a web application, primarily it requires an internet connection to upload scans and retrieve results. It is available within the UCL network (though there may be certain parts where it is not accessible), and as such the device that you are connecting from needs to be connected inside the UCL network.

The service is accessed through a web browser and any modern browser should suffice (it has been tested on Google Chrome, Opera and Mozilla Firefox) and at the time of writing is available at the following web address:

**`http://128.40.164.18/`**

Simply type the above line into the address bar of the browser that you are using and press enter; it should display something similar to the following:

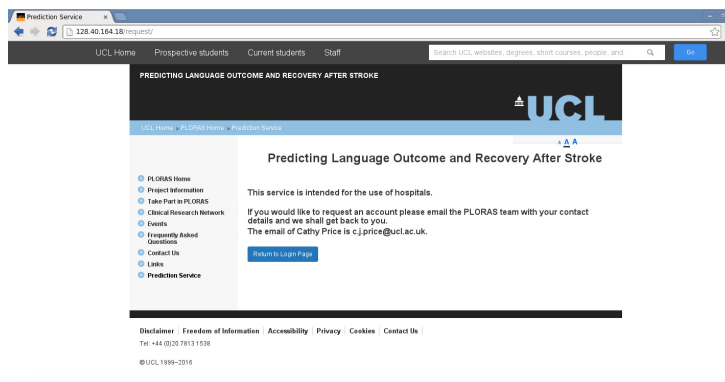


If you are not getting this page and you have a working internet connection within the UCL network then you should contact a member of the PLORAS team to check that the server address has not changed or been moved.

## 1.2 ACCOUNT OPTIONS

### 1.3 REQUESTING A USER ACCOUNT / RETRIEVING LOST PASSWORD

If for any reason you require a new user to be allowed access to the system or you have lost access to your current account, the contact details of the current system administrator is available by clicking the button located at the bottom left of the login box; the page should look like the following and give the email address of the relevant person:

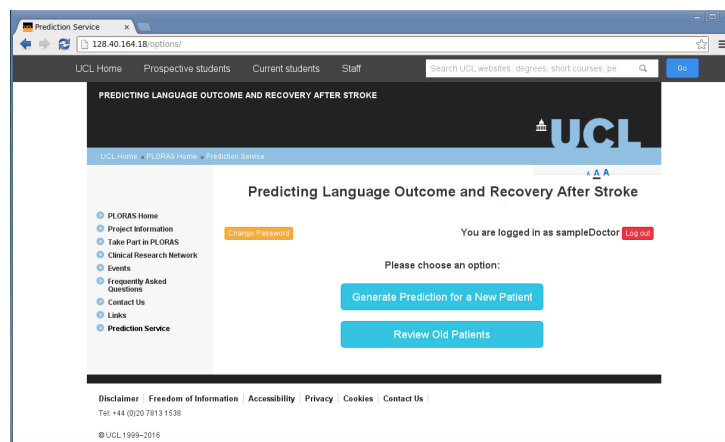


#### 1.3.1 LOGGING IN

Once you have an account you log in from the front page by typing your username and password into their respective textfields and clicking the 'login' button, if the details were not accepted the following text will appear above the login details box:

“Your username and password didn’t match. Please try again.”

If successful you will be directed to the following page:



### 1.3.2 CHANGING PASSWORD FOR YOUR ACCOUNT

Once logged into your account, you can change your password by clicking the yellow/orange button located on the left below the title “Predicting Language Outcome and Recovery After Stroke”, a new page will open and a prompt to enter your new password twice will appear, once you have entered them click save changes - upon success you will be logged out and pushed back onto the front page (login screen); if the 2 entered passwords do not match you will be presented with a message above the “Change Password” text that says ‘Passwords do not match. Please try again.’.

### 1.3.3 LOGGING OUT

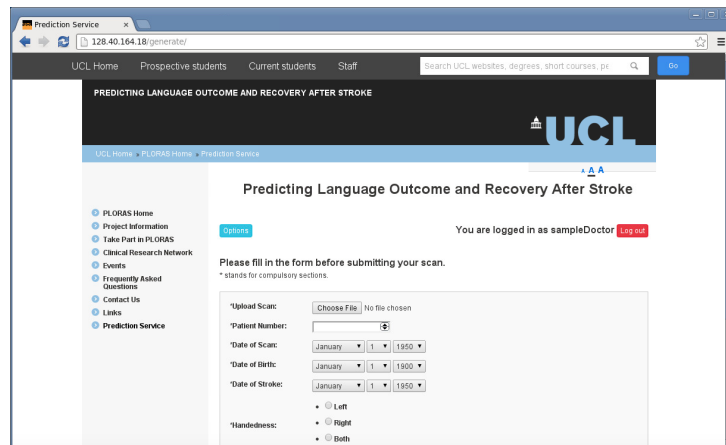
From any page on the system it is possible to log out by clicking the red ‘Log out’ button at the top right of the page as pictured below:

**You are logged in as sampleDoctor** [Log out](#)

It is recommended that you log out whenever you are not on the system due to privacy concerns.

## 1.4 SUBMITTING A NEW SCAN FOR PROCESSING

From the ‘Options’ page (the first to display after logging on), click the button labelled ‘Generate Prediction for a New Patient’. Upon doing that you will be presented with a page as below:

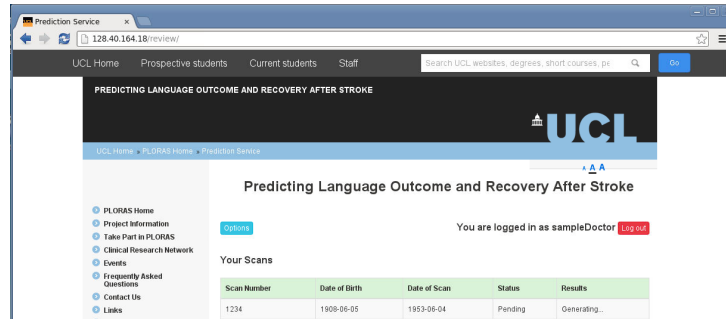
The screenshot shows a web browser window with the URL '128.40.164.18/generator/'. The page title is 'PREDICTING LANGUAGE OUTCOME AND RECOVERY AFTER STROKE'. The UCL logo is in the top right. A navigation bar includes 'UCL Home', 'Prospective students', 'Current students', and 'Staff'. A search bar is present. A left sidebar lists links: 'PLOGAS Home', 'Project Information', 'Take Part in PLOGAS', 'Clinical Research Network', 'Events', 'Frequently Asked Questions', 'Contact Us', 'Links', and 'Prediction Service'. The main content area has a blue 'Options' button and a login status 'You are logged in as sampleDoctor' with a 'Log out' button. Below this, a message says 'Please fill in the form before submitting your scan.' and a note '\* stands for compulsory sections.' The form fields are: '\*Upload Scan:' with a 'Choose File' button and 'No file chosen' text; '\*Patient Number:' with a text input; '\*Date of Scan:' with a dropdown menu (January, 1, 1999); '\*Date of Birth:' with a dropdown menu (January, 1, 1900); '\*Date of Stroke:' with a dropdown menu (January, 1, 1950); and '\*Handedness:' with radio buttons for 'Left', 'Right', and 'Both'.

The form needs to be completed, with the starred fields indicating compulsory fields that must be filled in for the scan to be processed.

- When selecting the files for the ‘Upload Scan’ section please ensure that the .ima files are in a compressed .zip file (for help with this please consult Google), the system expects a multiple of 176 files and checks for this - so please zip only the ima files.
- Patient Number can be entered using the keyboard.
- Date of Scan, Birth and Stroke have to be input using the drop down menus.
- Handedness and Gender are radio buttons, simply click the grey dot to the left of the text to select the option.
- Additional Info text field is used for adding additional information which you may want to review in the future.

Click submit once finished, if the submission had an issue the page will reload and the relevant field on the form will have a marking stating the issue.

If the submission was successful you will be sent to the following page:



Notice that the results column says generating, you are now on the review page; if you wish to get back to the front page click the 'options' button.

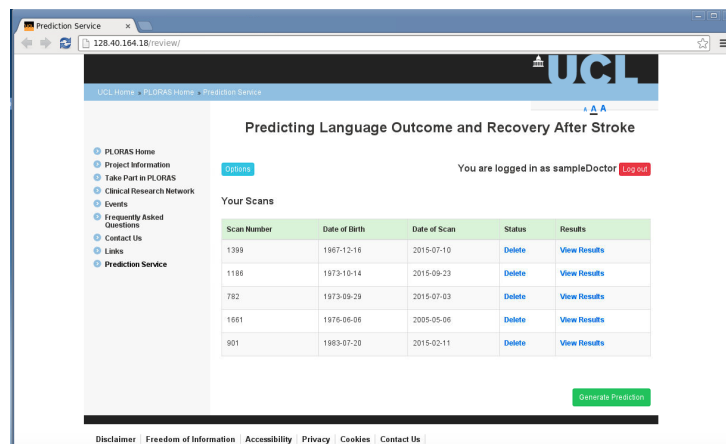
## 1.5 REVIEWING PATIENTS AND VIEWING PREDICTIONS

FROM THE 'OPTIONS' (FRONT) PAGE

From here simply click the 'Review Old Patients' button to get to the 'Review' page and continue as below.

FROM THE 'REVIEW' PAGE

You will be presented with a page as shown below:



### 1.5.1 DELETING A SCAN

In order to delete a scan simply click the ‘delete’ button from the relevant row of the patients table, the page will reload and the patient will have been removed - there is not a prompt.

### 1.5.2 REVIEWING AN INDIVIDUAL PATIENT PREDICTION

Find the relevant patient number from the left most column of the table then check that the scan date is the one that you wish to view; click the ‘View Results’ button on the right side of this row of the table; the site should load a page looking like this:

The screenshot shows the PLORAS Results page. On the left is a navigation menu with links: PLORAS Home, Project Information, Take Part in PLORAS, Clinical Research Network, Events, Frequently Asked Questions, Contact Us, Links, and Prediction Service. The main content area is titled 'Results' and includes a 'Patient Information' table, a 'Patient Prediction' section, and a 'Percentage Damage to Regions of Interest' table. The user is logged in as 'sampleDoctor'.

Patient Information:	
Scan Number	1399
Date of Scan	2015-07-10
Date of Birth	1967-12-16
Date of Stroke	2014-10-19
Handedness	both
Gender	male
Additional Information	This patient was known to had troubles with foreign languages.

**Patient Prediction:**  
Prediction is not available, either because the stroke type is rare or because other patients have inconsistent recoveries. We are working on trying to improve these predictions. The prediction assumes the patient does not have impaired semantic memory or is not bilingual.

Percentage Damage to Regions of Interest:			
region1	region2	region3	region4
15.0	0.42	0.00	90.53

The prediction for the patient can be found below the results table and will appear as a number of sentences; not all strokes can be given a prediction and the reasons for this will be explained within the prediction text body.

### 1.5.3 PRINT PATIENT RESULTS

From the prediction page for a given patient simply click the button on the bottom right of the page labelled ‘Print Results’, this should bring up the usual print dialogue for your machine, select the options you require and click ‘Print’.

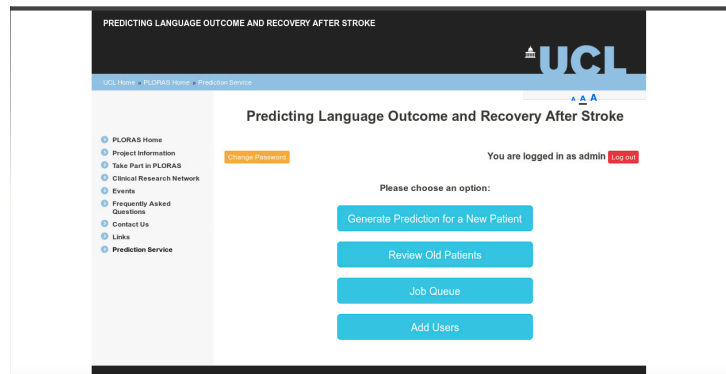
### REVIEW ANOTHER PATIENT

To get back to the ‘Review’ page with the table showing all previous scans click the button on the bottom left of the page.



## 2 ADMINISTRATOR FEATURES

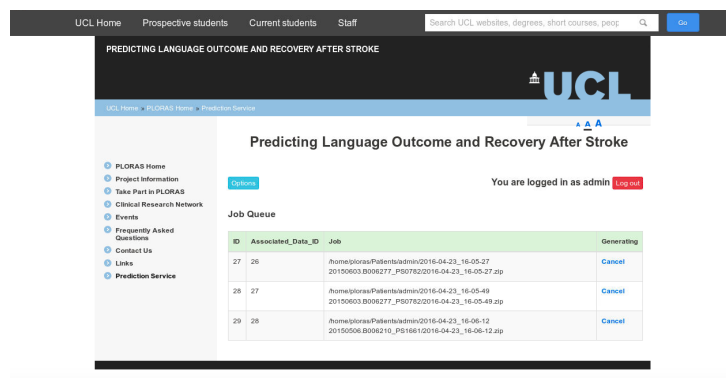
This section is only relevant to administrator users, if you are not aware of what this means then this section does not apply to you - all other features are documented in the section 1. We will assume that you have already logged in and are at the following page:



### 2.1 JOB QUEUE

#### 2.1.1 VIEWING THE JOB QUEUE

From the 'Options' page, click the button labelled 'Job Queue', this will display a table showing the current jobs.



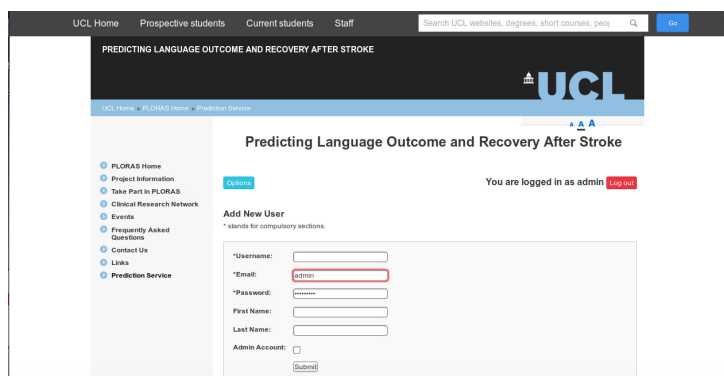
#### 2.1.2 DELETING A JOB

If you believe a job may have crashed or have other reasons, jobs can be removed from the processing queue; this is done by finding the relevant job title and clicking the 'Cancel' button on the corresponding right hand column

of that row of the table. The page will reload and the job will be gone - note there is no on screen prompt showing this apart from the page reloading.

## 2.2 ADDING A USER

In order to add a user, click the button labelled ‘Add User’ from the ‘Options’ page, it will bring up the following page:



The screenshot shows the 'Add New User' form within the 'Predicting Language Outcome and Recovery After Stroke' (PLORAS) system. The page has a dark header with the UCL logo and navigation links: 'UCL Home', 'Prospective students', 'Current students', and 'Staff'. A search bar is also present. Below the header, the page title is 'Predicting Language Outcome and Recovery After Stroke'. On the left, there is a sidebar menu with links: 'PLORAS Home', 'Project Information', 'Take Part in PLORAS', 'Clinical Research Network', 'Events', 'Frequently Asked Questions', 'Contact Us', 'Links', and 'Prediction Service'. The main content area is titled 'Add New User' and includes a note: '\* stands for compulsory sections'. The form fields are: 'Username:' (text input), 'Email:' (text input with 'admin' entered), 'Password:' (password input), 'First Name:' (text input), 'Last Name:' (text input), and 'Admin Account:' (checkbox). A 'Submit' button is at the bottom right of the form. A status bar at the top right indicates 'You are logged in as admin' with a 'Log out' link.

Simply fill in the form as appropriate, it is recommended to set a simple password before passing the account over to the user and requesting that they change it themselves as soon as they have access to the account. It is also important to leave the ‘Admin:’ box unchecked unless you are sure that you want to give the user access to the job queue and all scans from all users.

## 2.3 REMOVING A USER

It has been deemed an unlikely event that you would wish to delete a user’s account along with all of their submitted scans, this is very much achievable and is discussed in the system manual - please ask a member of IT staff for help with this.