Bi-weekly Report (29th January 2016)

Project (Neuro)	Interface for a Social Data Repository for the Internet Neurocinematics Database (INcDb)
Team 35	Cheung Johnson (Leader) Karunaratne Rajind Ong Yong Lin

1 Overview of Work Progress

The team has started working on the Python Flask Application (back-end) of the project, starting with incorporating the user authentication then slowly add in other features – contributing data and browsing of the data repository.

2 Summary of Meetings

Meeting 10 26th Jan	Cheung Karunaratne Ong	1. Ong showed Dr. Skipper the work we have done (user authentication, form control of data contributions) 2. Cheung enquired Dr. Skipper about how he does his decoding of data using Neurosynth decoder. 3. Karunaratne showed Dr. Skipper the presentation slides for the elevator pitch, confirming if information shown is correct and okay to be presented.

3 Completed Tasks

No.	Task	Owner	Status
1	Create, Setup Flask Application with required extensions	Ong	Done
2	Add User Authentication to Flask Application	Ong	Done
3	Create Form(s) in Flask for information regarding data contributions	Ong	Done
3	Prepare presentation and present at Elevator Pitch	Karunaratne	Done
4	Investigate Neurosynth Decoder and how to incorporate into INcDb	Cheung, Karunaratne	Ongoing

4 Problems

When investigating the Neurosynth Decoder, we tried to decode an image against all the available terms on Neurosynth but when setting up the decoder, it took an extensive amount of time so we were unable to do a decoding against all terms in the database (>5000 terms). However, according to Dr. Skipper, when he decodes he uses all terms so we will continue to search for a solution.

5 Individual Contributions

Johnson Cheung

My work in recent weeks were focused mainly on investigating the Neurosynth framework to see how we can incorporate certain existing features such as the decoder (link images with terms) and the viewer (showing the 3D brain images on three planes).

Yong Lin Ong

I have added the data uploading function to our prototype. I worked on the application logic and process of the uploading function. Further application logics to handle other use cases for data uploading will be added. I also joined my teammate in studying Neurosynth and started building database model to house the information.

Rajind Karunaratne

Over the past week, I have assisted with the team by looking into the Neuorsynth framework. This involved experimenting with the various functions and tools provided to help with decoding brain imaging data, and identifying attributes that can be extracted from the results to be used for the data structure. Currently, I am investigating if the decoding process needs to be carried out from an external server and processes to upload the results to the server.

I have also taken responsibility to creating the Powerpoint slides and presentation for the elevator pitch that took place on the 28th.