

# COMP0016 Systems Engineering Bi-Weekly Report 4

**Project Title:** Hospital Surveys

**Team Number:** 17

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**Date:** 26 January 2020 – 7 February 2020

## Report Overview:

Over the course of these two weeks, we added some necessary functionalities for our web-app, including editing and deleting questionnaires, and looked into user authentication for the GOSH DRIVE admins using our web app. We want a log in system for the GOSH DRIVE admins to view and manage the questionnaires.

We also did some research on some statistical analysis libraries such as ChartJS and Plotly in order to visualize questionnaire data.

## List of Tasks Completed:

Task Category	Description	Priority	Status
Web-app Hosting	We have hosted the React front-end and Django back-end on Heroku over the same server, by specifying various configurations on the back-end and using a Procfile.	High	Completed
Django back-end REST API	Finished Django back-end REST API endpoints for viewing, editing questionnaires, as well as endpoints for answering questionnaires.	High	Completed
React front-end Admin Panel	<b>Users can now use a fully functioning admin panel front-end to edit and manage questionnaires.</b>	High	Completed
Django research – authentication	Did research on Django authentication to help with user authentication. We looked into libraries such as Django rest-auth / all-auth for token based authentication.	Medium	Ongoing
React research – authentication	Did research on React Redux in order to store the token from the Django backend after user logs in into the web-app.	Medium	Ongoing

**Estimate if project is running on time:** Yes

**Problems from the Last Report:**

Problem	Description	Priority	Status
CORS issue for web-app hosting	It was difficult to host the web-app on different servers due to CORS policy.	High	Resolved
Questionnaire choices cannot be edited yet.	The back-end REST API endpoints for editing questionnaires was not implemented yet.	High	Resolved
Questionnaire responses still cannot be posted.	The back-end REST API endpoints for posting questionnaire answers was not ready, and the React front-end was also not ready as well.	Medium	Unresolved

**Problems to be solved before the next report:**

Problem	Description	Priority
Questionnaire responses still cannot be posted.	The React front-end UI for posting questionnaire responses is still not ready.	High
The admin panel is still unsecure	There is still no log in system for admins to log into the admin panel. Thus, we are planning to implement user authentication.	Medium

**Plan for the next two weeks:**

- Implement authentication for users to log in.
- Complete page for patients to answer questionnaires.
- Get started on statistical analysis on questionnaire data, as part of the 'could have' requirements in our MoSCoW list of Requirements.
- Research on simple data analysis algorithms, such as k-means clustering to see if they suit our project.