

COMP0016 Systems Engineering Bi-Weekly Report 4

Project Title: Hospital Surveys

Team Number: 17

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Date: 7 February 2020 – 28 February 2020

Report Overview:

In these two weeks, we implemented user authentication for GOSH Drive admin users. We also improved UI design (some CSS styling) and now on a course to implement statistics page.

We are planning to add k-means clustering machine learning algorithm for more advanced data evaluation. We are researching this topic now.

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	Users can now use a fully functioning admin panel front-end to edit and manage questionnaires.	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	Completed
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	Completed
User authentication	Now, in order to access admin panel user has to have login and password.	Medium	Completed

Estimate if project is running on time: Yes

Problems from the Last Report:

Problem	Description	Priority	Status
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	Resolved
Questionnaire responses still cannot be posted.	The back-end REST API endpoints for posting questionnaire answers are ready, however some issues still exist	Medium	Ongoing

Problems to be solved before the next report:

Problem	Description	Priority
Questionnaire responses still cannot be posted.	There are some certain issues with posting an answer.	High
Statistics page	It is not implemented yet. We want to add some simple statistics like average age, along with implemented k-means clustering algorithm.	Medium

Plan for the next two weeks:

- Solve problem of posting questionnaire answers to database.
- Implement access to questionnaire with a URL.
- Implement k-means clustering algorithm in front-end on static data.