

Git Repo:

React App: <https://github.com/CheukTsai/cs5610-project3-app-zhuocaili-kejiantong>

Node Server App: <https://github.com/CheukTsai/cs5610-project3-api-zhuocaili-kejiantong>

Heroku Link:

Client: <https://onboardapp.herokuapp.com/>

Server: <https://onboardapi.herokuapp.com/>

Writeup:

Challenges We faced:

1. Network:

We think this is the hardest part for this project: at first we deal with our server for a long time since it cannot return any cookies at all. We have to config the headers for long time to deal with CORS problems;

There is one that we haven't solved is about the cross site problems that pop out when a browser forbids that. We will talk about that in our next-steps part.

2. Deploying:

We found it really hard to deploy on one app both for the react app and the server, it seems like that they will take over the same port, and requests like POST/PUT/DELETE/ cannot be sent to our server. Instead, we deployed them into two separate heroku apps, but still no idea about the Safari preventing cross-site tracking problem.

3. Image uploading:

We first want to use GridFS to help storing images in our MongoDB, but we found Cloudinary and it is very helpful especially when uploading images. So that it becomes our first choice.

Next Steps:

1. Deploying as a whole:

We think this is my ultimate goal for this project. We are thinking if we can lock /api to only the server but we failed. Currently maybe creating a subdomain may be a good solution for apis, as I saw many big companies doing so for their apis.

2. 3-Party Auth:

We are always thinking of adding a 3-party auth, like Google Auth to my app, and learn more about GCP. This may be a good practice.

3. Changing username:

This is relatively an easier thing to do. But many logics should be added in the server part: we should update the data, regenerate a cookie for the user based on the new username, "log the user out and then let the user in", etc. Given more time, this would not be hard.

Assumptions:

We have already foreseen that the deploying as a whole would fail since I haven't pretty much thought of how to better dispatch the ports. Despite that, we think most of the outcomes meet our expectations or even more.

Total Time:

Three weeks. Since we built this app from nothing, we have to deal with the Node App, React App and all the stylings. About three weeks every now and then.

Collaborator:

Zhuocai Li