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CSE 416
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Milestone 4 Progress Update

Individual Progress Update - Hawon Park

Beta Release Production Settings [COMPLETE]

Full production stack setup and running

- Server: Ubuntu 18.04 instance hosted on Vultr
- Frontend: Yarn Production Build
- Backend: Gunicorn (WSGI) server
- DBMS: MariaDB + phpMyAdmin
- Reverse Proxy: jwilder/reverse-proxy

Google OAuth Login [COMPLETE]

Frontend Google Authentication with Backend Google Authorization

- Frontend: authenticates user via google account and receives id_token [COMPLETE]
- Backend: authorized user by verifying id_token received from backend [COMPLETE]
- Any API call that requires authorization sends the current session's id_token as a parameter to verify in the backend

Functionality for Edit Profile [COMPLETE]

Retrieves user information to display in the profile card

- Frontend: PUTrequest to verify id_token, update profile data [COMPLETE]
- Backend: receives request, queries database, returns data [COMPLETE]

Functionality for Profile Card [COMPLETE]

Retrieves user information to display in the profile card

- Frontend: POST request to verify id_token, crawl profile data [COMPLETE]
- Backend: receives request, queries database, returns data [COMPLETE]

Make Post / Image CDN [IN-PROGRESS] [20%]

- Could not start on feature due to errors that occurred during Google authentication progress
- API calls for posting questions work fine, but the frontend axios code have yet to be fleshed out
- Image CDN not yet connected to backend

Individual Progress Update - Jeong Ho Shin

Functionality for Retrieving posts for board [COMPLETE]

- Frontend: GET request to backend and populates feed with data [COMPLETE]
- Backend: receives request, queries database, returns data. [COMPLETE]

Functionality for Share [COMPLETE]

- Frontend: copies URL into clipboard [COMPLETE]

Functionality for Like [IN-PROGRESS] [90%]

- Frontend: POST/DELETE request to backend and updates UI accordingly [COMPLETE]
- Backend: receives request, updates database. [COMPLETE]
- DBMS: Necessary updates done through triggers [TESTING]

Functionality for Favorite [IN-PROGRESS] [90%]
- Frontend: POST/DELETE request to backend and updates UI accordingly [COMPLETE]
- Backend: receives request, updates database. [COMPLETE]
- DBMS: Necessary updates done through triggers [TESTING]

Functionality for Edit Post [COMPLETE]
- Frontend: PUT request to backend and updates UI accordingly [COMPLETE]
- Backend: receives request, updates database. [COMPLETE]

Functionality for Write Post [IN-PROGRESS] [60%]
- Frontend: POST request to backend [IN-PROGRESS] [70%]
- Backend: receives request, updates database. [IN-PROGRESS] [80%]
- CDN: [IN-PROGRESS] [10%]

Database population [IN-PROGRESS] [30%]
- Populate user [IN-PROGRESS]
- Populate post [IN-PROGRESS]
- Populate post interactions [IN-PROGRESS]

Individual Progress Update - Pyungkang Hong

UI for board [COMPLETE]
- Card components detail page fixed with image
- Card spacing and Profile card design fixed

UI Profile card and components [COMPLETE]
- Layout UI and dummy data call

UI Edit-profile [COMPLETE]
- Make fully edit user profile form

UI Edit-Post [COMPLETE]
- Make fully edit user post form
- Set the useState in front end

UI question page [COMPLETE]
- Detail edit page located without url change
- Fixed with local dummy data in detail page
- In post detail page combine with comment components

UI Reply [COMPLETE]
- Able to put input data in local site with local dummy data
- Able to delete the reply their own comments

UI Reply to Reply with dummy data [COMPLETE]

- User can able to input value in current comment with local dummy data

UI Notification [IN-PROGRESS] [50%]
- Making components and dummy data
- Separating the dummy data type with notification

UI Mypost List & Favorite List [IN-PROGRESS] [80%]
- Testing with dummy data
- Like, endorse like, and comment counts

Group Progress Update
List of Use Cases / Features that were expected by Milestone 4

Feature	Current Status	Assigned To
Make Post	In-Progress	Hawon Park
Login w/ Google OAuth	Complete	Hawon Park
Like Function	In-Progress	Jeong Ho Shin
Share Function	Complete	Jeong Ho Shin
Profile Card	Complete	Hawon Park
Edit Post	In-Progress	Jeong Ho Shin
Edit Profile	Complete	Hawon Park
Question Feed Sorting	In-Progress	Jeong Ho Shin
View Question Feed	Complete	Jeong Ho Shin

* Pyungkang Hong did not work on the use cases / features themselves as he was rebuilding the entire UI from scratch. As such, we feel that Pyungkang contributed equally to the project despite not appearing in the actual use case / feature

As a whole, our team is behind schedule, but that is something to be expected due to the fact that we changed our production stack three times (React/MariaDb → Django/MariaDB → React/Flask). We feel that our progress thus far is on track to finish by the final submission date. We had set to complete everything by Milestone 6 as to give ourselves ample time to test prior to final submission. We feel that our current schedule is still very much viable if we keep up the hard work. This period prior to Milestone 5 will be the most crucial to completing our project on time.

Team Grade
We feel our overall progress so far, despite being behind the original schedule, deserves a grade of A. We were able to catch up to our current progress in just under two weeks thanks to our good communication and teamwork. We do not feel that we will be too pressed for time moving forward as we had already completed the most crucial features first. We have implemented most of our UI and REST api calls at this point. It just so happens that we have not been able to connect our UI to our backend due to the need for thorough testing of current features (such as Google OAuth).

Issues / Plan Moving Forward
The only issue we had thus far is an overall lack of experience in making a fully polished website. It was our first time using the NextJS, Flask, MariaDB production stack which meant that most of the time in the earliest weeks were spent on trying to learn how to connect everything together. As we are now comfortable with using our current technologies, it is only a matter of time and commitment to finalize our project. We do, however, plan to coordinate sprints of shorter time periods so that we can better communicate and merge our changes.