

## **EE/CprE/SE 492 Status REPORT 3**

**Start Date – End Date:** February 12 - February 26

**Group number:** 25

**Project title:** dripdrop

**Client &/Advisor:** Simanta Mitra

### **Team Members/Role:**

Team Liaison/Communication Leads: Zachary Foote

Research Lead: Logan Roe

Project Manager: Kaden Wingert

Technical Lead/Architect: Elyse Kriegel

Testing/Quality Assurance: Gavin Rich

Documentation/Meeting Lead: Kolby Kucera

### ○ **Weekly Summary**

With the likes and comments tables ready on the backend, those were implemented on the front end to display more information about each post and make them more interactive. Spent time researching and learning about SnapStart. We attempted to implement Lambda SnapStart, but currently have not had success. We added account type birthdate, and profile pictures to the user table. The team additionally updated API calls to handle the new fields and allow for users to upload their own profile pic. Began the mobile app's feed implementation.

For the frontend, we now have functional signup and login pages, as well as a working navigation bar on the application. We also implemented searching on the frontend for both users and accounts.

### ○ **Past week's accomplishments**

Kaden Wingert:

- Implemented the logic for likes and comments on the frontend
- Made the drafts section only display for the user that is logged in. When other users search for a user, the drafts tab is no longer visible
- Created a display for when the user has no posts created
- Began work on the mobile app to allow for the creation of a post
- Set up the API calls, types, and connect to a UI library (react-native-pages) on the mobile app
- Set up React-Native Paper on the mobile app

- Created diagrams for the backend and the website

Kolby Kucera:

- Updated API endpoints for posts and comments to better suit frontend needs
- Spent time researching and learning about SnapStart
- Attempted to implement Lambda SnapStart, but currently no success
- Added account type birthdate, and profile pictures to the user table.
- Updated lambda API functions to handle the new fields and allow for users to upload their own profile pic
- Started working on /search endpoints.

Logan Roe:

- Updated feed logic to include whether the current user has already liked a given post so the frontend can properly reflect that.
- Set up an API call on the mobile application for the home page's feed.
- I began working on the mobile app's feed/home page.

Elyse Kriegel:

- Created step function and sqs queues needed for the AI backend flow
- Updated the image cdn to handle large image sizes
- Refactored the backend to be more streamlined and organized
- Added more security to the lambdas, vpc, and database

Gavin Rich:

- Fixed expo simulation bug
- Created mobile navigation bar
- Worked on initial mobile page routing
- Designed and started building user profile page

Zachary Foote

- Created sign-up and login pages
- Created a functional search bar for searching both users and posts
- Setup session storage to store the users info who is logged in
- Refactored some front end files

#### ○ **Pending issues**

- Still really high latency for our API calls

○ Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Kaden Wingert	Implemented likes and comments on the front end. Hid the drafts section for people who are not currently logged in. Created a display for when the user has no posts created. Began work on the mobile app for creating a post and configured project to be able to use Reac-native paper. Created file diagrams for the website and backend	19	41
Kolby Kucera	Updated API endpoints for posts and comments to better suit frontend needs. Spent time researching and learning about SnapStart. Attempted to implement Lambda SnapStart, but currently no success. Added account type birthdate, and profile pictures to the user table. Updated API calls to handle the new fields and allow for users to upload their own profile pic. Started working on /search endpoints.	8	21
Logan Roe	Updated the backend feed logic to now include whether the current user has liked a given post. I set up an API call on the frontend for the home page/feed functionality. I also began working on the mobile app's feed/home page.	10	21
Gavin Rich	I started out by fixing an expo simulation bug that was preventing me from being able to work on mobile development. I then created a functional navigation bar for the mobile app and started worked on the initial mobile page routing. After that I designed and started building the user profile page.	6	14
Zachary Foote	I created the signup and login pages for the mobile application. I also created the search	12	23

	bar, which allows the user to search both users and posts. Additionally, I set up session storage to store the logged in users information. Lastly, I refactored a few frontend files.		
Elyse Kriegel	I designed and implemented the Step Function and SQS queues to optimize the AI backend flow. The image CDN was updated to support large image sizes, improving scalability and performance for high-resolution images. I also refactored the backend architecture to enhance modularity, maintainability, and efficiency, improving overall organization. Additionally, I strengthened security by implementing stricter access controls and encryption for Lambda functions, refining VPC configurations, and enhancing database security measures to protect sensitive data.	30	47

○ **Comments and extended discussion**

○ **Plans for the upcoming week**

Kaden - Implement the following screens for creating a post that will eventually integrate with the AI product suggestions and tag generating

Kolby - Complete /users/search and posts/search endpoints for a more efficient search feature. Implement lambda function to handle the results of AI image processing.

Logan - Complete the mobile application's home page/feed and make some aesthetic

improvements where necessary for a more pleasing user experience. Yet to be discussed which, but I will likely work on another page of the mobile app as well.

Elyse - connect the AI backend flow with the rest of the API so we can have AI functionality in the app. Will also dive into some react-native code so I can learn some of the frontend technologies.

Gavin - Finish incorporating real data into the profile page and help Kaden with posting screens as needed.

Zach - Setup linking between the search users and the user's account page. Also, finish functionality from when a user searches a post then clicks on it. Then, move on to other frontend screens as needed.

- **Summary of weekly advisor meeting**

We met with professor Mitra on Thursday Feb 20th. We informed him of our progress, and have promised some deliverables for the next meeting as well as to have some features implemented on the mobile application to show him. Here is the list of items Professor Mitra asked for for the next meeting.

To-do for next instructor meeting:

- Backend Architecture diagram
- Frontend Architecture diagram
- List of features
  - Organized by payment tiers
- Frontend and Backend folder structure
- Elyse - submit request for Nova Computer
- List of user types.