

## **EE/CprE/SE 492 Status REPORT 1**

**Start Date – End Date:** End of 491 - January 30

**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**

We have created an AWS Typescript website to give a status update on the project since last semester. The website is still in development and it offers users the ability to view outfits posted by friends, influencers, and others to gain clothing inspiration. The fall semester included mostly initialization tasks, including getting our infrastructure set up, creating a working CI/CD pipeline in GitLab, login/signup/edit account features, viewing user profiles, and the main display feed. Now that most of this is out of the way, we plan to continue developing our custom AI model which will be used to identify clothing items in images and suggest similar, more affordable alternatives to what is seen in users' posts. We also plan on implementing a more sophisticated user feed algorithm this semester as well. Additionally, we would like to expand our app to mobile devices if time permits, as we feel this is where users would most desire our app.

This week, we met as a group to discuss how we wanted to proceed with the project. Since our website is not finished, we will dedicate two people to working on the website, two people to begin on the mobile app, and two people to work on the backend/AI. Unlike last semester, when we didn't decide on a final idea until several weeks into the project, we should be able to develop more on the frontend side this semester. Additionally, we have our entire infrastructure and a majority of the backend setup, so this should also help speed up development as we can dedicate more time towards it.

Some of the features that were implemented this week include dynamically viewing the

images of posts made by users. We also started the process of rewriting our backend code to create our lambda functions as light as possible. We believe this will significantly help with our latency.

○ **Past week's accomplishments**

Kaden Wingert:

- Populated posts with the images made by users on the view profile screen
- Updated View Post model to include all photos attached to a particular post
- Refactored frontend interfaces to reduce duplication and improve readability
- Updated the create post page to require at least one image

Gavin Rich:

- Setup and initialized mobile app environment
- Installed initial dependencies for mobile app
- Started building mobile login page

Kolby:

- I worked on rewriting the backend code so that our lambdas contained as little code as possible to improve performance.
- I got all user and follow functionality done, and I am in the process of working on the post and image functionality

Logan Roe:

- Helped decide on backend refactoring decisions to improve responsiveness and readability.
- Fixed the HasSeen table and functionality.
- Tested and ensured the HasSeen table/functionality and the feed functionality worked as intended.

Zachary Foote:

- Worked on learning Expo as will be the main library for the App Development.
- Started working with Gavin on creating the framework for the frontend and planning out the direction we want to start for the app.

Elyse Kriegel:

- Improved some code on the website to make loading a bit faster
- Adding husky to the website development to make it more robust and enforce cleaner code
- Starting working on decoupling current AI progress from a library which has some weird licensing issue.

○ **Pending issues**

- Need to continue on the backend restructure

○ **Individual contributions**

| <b><u>NAME</u></b> | <b><u>Individual Contributions</u></b>                                                                                                                                                                                                               | <b><u>Hours this week</u></b> | <b><u>HOURS cumulative</u></b> |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| Kaden Wingert      | I connected the images to the posts on the view profile screen and the viewPost Modal. I also refactored some of the interfaces in the frontend code to a common file. Updated the create post page to require an image. Updated the view post modal | 6                             | 6                              |
| Kolby Kucera       | I worked on rewriting the backend code so that our lambdas contained as little code as possible to improve performance. I got all user and follow functionality done, and I am in the process of working on the post and image functionality         | 4                             | 4                              |
| Logan Roe          | I worked some on making decisions for the backend refactor to improve lambda responsiveness. I also tested and fixed the HasSeen table/functionality and the feed functionality.                                                                     | 5                             | 5                              |
| Gavin Rich         | I initialized and started the mobile project along with installing initial dependencies. Started building the mobile login screen.                                                                                                                   | 3                             | 3                              |
| Zachary Foote      | Started to learn Expo and also worked with Gavin to start setting up the framework or                                                                                                                                                                | 3                             | 3                              |

|               |                                                                                                                                                                                                                                   |   |   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
|               | the app and planning out initial steps for development.                                                                                                                                                                           |   |   |
| Elyse Kriegel | The website was loading a bit slow so I added some code to make it a bit faster but improvement is still needed. Also added husky to enforce eslint and clean compiles before pushing code. Worked on decoupling library from AI. | 7 | 7 |

- **Comments and extended discussion**

- **Plans for the upcoming week**

Kaden - I plan on implementing the UI for adding markers to posts. This will let users put the information on their posts and distinguish between the items. It will also allow others to see where the clothes can be purchased. If the backend still needs it, I will also create the table for the markers so the round-trip can be completed for that interaction.

Kolby - I want to continue rewriting the backend code for better performance, specifically the post and image functionality. After that, I will work on requests from the frontend. I also want to look into creating a separate construct file to hold all of our lambda and api endpoint declarations to improve readability in our api-construct cdk file.

Logan - I may help Kolby with some of the backend refactoring, if necessary, to improve the platform's overall performance. After the refactoring has finished, I will fully finish the feed implementation. Then, I will move to working on the website portion of the frontend.

Zach - I will begin working on coding certain pages on the application. Specifically, I will focus attention on the sign in page and also potentially the home page.

Elyse - Continue working on the decoupling of that library of the AI and also starting working on the classification model AI.

Gavin - Finish mobile login page and start working on post flow for mobile. Help Zach with the home page.

- **Summary of weekly advisor meeting**

We are in discussion with our advisor about finding a time that will work for this semester, but have not met with him prior to January 30th.