CSE 115A Release Summary

Product Name: **HydroTag**

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Key User Stories and Acceptance Criteria:

- **Sprint 1**
    - As a user, I would like to add pins onto the map and review them so I can keep track of my personal experiences with these water fountains for future reference.
        - Criteria:
            - Visual Google Maps API component
            - Be able to add pin, and add review to pin
            - Store pins and related info in database
    - As a user, I would like to view pins on the map and see the reviews of the water fountains so that I can know where the nearest and best water fountains are in my area.
        - Criteria:
            - Visual Google Maps API component
            - Show user-location on map
            - Retrieve pins and related info from database
    - As a user, I would like to create an account and be able to keep my user data consistent so that I can be sure that I don't lose my list of pins or reviews by the next time I log in again.
        - Criteria:
            - Firebase User Authentication implemented
            - Users database
            - Sign-up / Login page

- **Sprint 2**
  - As a user, I would like to add friends on the web application so that I can see what my friends are pinning, reviewing, and so that I can share my own activity and pin collection with them
    - Criteria:
      - Firebase integration for following users
      - Options and UI for followed list and following/unfollowing users
      - Filters for pins on map (and option for reviews) from following vs. all users
      - Show reviewer for each review on pin
      - Add visual list of users available to filter through search
      - Make distinction for mutual followers
  - As a user, I would like to see my friends most recent pin they visited so that I can get a sneak peek into what they're up to and how hydrated they are throughout the day
    - Criteria:
      - Implement sidebar UI and redirects
      - Display most recent pin next to user on following list
      - Add timestamping for reviews
  - As a user, I would like to route myself from my current location to any pin that I choose so that I can find my way to specific water fountains easily through an in-app solution
    - Criteria:
      - Google Routes API integration for routing geolocation pin to pin
- **Sprint 3**
  - As a user. I would like to personalize my account with badges to show off my achievements in the app for my network to see
    - Criteria:
      - Integrate display names and display name creation
      - Make User Profile Tab in Sidebar
      - Add stickers, badges, and achievements to User Profile
      - Other user's profile access from users tab (popup element like report)
  - ~~As a user, I would like to have rewards for keeping up a daily streak for every day that I log a pin or track my water intake so that I can stay motivated and hydration conscious~~
    - ~~Criteria:~~

- ~~Daily streak indicator on User Profile (as a badge) or as leaderboard~~
- As a user, I would like to be able to see just how well I am hydrating and staying active in comparison to my peers through an updated ranking system for fun
  - Criteria:
    - Implement water intake on User Profile
    - ~~Water intake leaderboard~~
- As a user, I would like to have visual feedback when adding markers so I know when I am adding to my pin map rather than just viewing it.
  - Criteria:
    - Togglable add marker button for clarity
    - Dynamic cursor implementation with regards to button press

Known Problems:

Major Bugs:

N/A

Omissions:

Daily Streaks (Sprint 3, User Story 2.1)
- Implementation for daily streaks was developed but required scheduling functions to meet the desired functionality outlined in the user story. We found that the required functions needed Google Cloud Functions as an added dependency, which requires Node.js to communicate the scheduled cloud function to our deployed web application; however, midway through our Sprints for this release we had structured our product around Next.js rather than Node.js and Express.js after determining that Node.js was not needed for our desired functionalities of Firebase at the time. The function exists within the codebase and its dependent attributes are visible on the web application, though the functionality of updating the streaks on schedule was not met at the end of Sprint 3 and as a result was omitted from this release.

Water Intake Leaderboard (Sprint 3, User Story 3.2)
- Implementation for recordable water intake was developed to meet User Story 3.1, but did not get to implementing the complementary UI for the Leaderboard. As such, we pivoted to a personal water intake record on the user's personal profile instead for this release, with the shelving of adding a leaderboard to the product backlog.

Product Backlog:

Daily Streaks
- As a user, I would like to have rewards for keeping up a daily streak for every day that I log a pin or track my water intake so that I can stay motivated and hydration conscious
  - Implementation of onSchedule functions through Google Cloud Functions integrations via Node

Water Intake Leaderboard
- As a user, I would like to be able to see just how well I am hydrating and staying active <u>in comparison to my peers</u> through an updated ranking system for fun
  - Add different filters for Leaderboard (ie. by water intake)

Review Visuals
- As a user, I would like to tell at first glance whether or not a pin is well reviewed or not so that I can have a better understanding of the pin's reliability
  - Add objective rating to review system and alter pin icon in relation to rating
  - Add temporal quality to pin such that older pins with less activity are discernable