

# Release Summary

Bathroom Locator - 12/02/25

## Key User Stories

- User Story 1: As a user who travels a lot, I want to be able to find public bathrooms easily on a map
  - Acceptance Criteria
    - See map of current location (if location-sharing is enabled in the browser)
    - See pins of bathrooms in the visible map range
    - Ability to click on said pins, to view more information about the bathrooms
    - Ability to move around the map, and also recenter back to the user's current location
- User Story 2: As someone unfamiliar with the area, it would be helpful to be given walking directions to the bathroom that I've selected, so that I can find the bathroom quickly.
  - Acceptance Criteria
    - A 'Navigate' button in the details page
    - Clicking on the navigate button should show walking directions from the user's current location to the selected bathroom in google maps
- User Story 3: As someone who's non-binary it would be helpful to see bathrooms that are gender neutral so that I can find a bathroom that I can use.
  - Acceptance Criteria
    - Ability to add gender when creating a new bathroom
    - Gender details should be visible when viewing a bathroom's details
- User Story 5: As a user of this app, I want to be able to tell if a bathroom actually exists before navigating to it.
  - Acceptance Criteria
    - Be able to see a 'Verified' tag on bathrooms that have been "liked" or verified by 5+ people
    - If logged in, be able to "like" (and unlike) a bathroom, to contribute to the "verified" status of a bathroom
- User Story 6: As a user, I want to be able to create an account that I can use later on the website.
  - Acceptance Criteria

- Sign up page that allows user to sign up for an account with email and password
  - Sign up button disabled without all fields populated
  - Error message “Passwords do not match” displayed for mismatching password
  - Error message “Invalid email format” displayed for incorrect email credentials
- User Story 8: As a user, I want to see bathroom amenities so I know what to expect.
  - Acceptance Criteria
    - Ability to add different amenities (e.g. toilet paper, menstrual products) when adding a new bathroom
    - Amenity details should be visible when viewing a bathroom’s details
- User Story 9: As a community member, I want to be able to add a new bathroom to the map to help others using this website.
  - Acceptance Criteria
    - An ‘add’ button, which is only visible if user is logged in
    - Ability to select the location of the new bathroom
    - Fields for (at minimum) the bathroom name and description
    - A button to exit the operation
    - A button to save the operation
    - The new bathroom is saved in the database and persists on the map
- User Story 12: As a user, I want to be able to search for specific cities on the map even without allowing it to access my location.
  - Acceptance Criteria
    - Search bar to search for specific cities or regions on the map
    - Drop down of suggested places, based on the user input
    - Ability to select a place in the dropdown, and have the map navigate to that area
- User Story 13: As an existing user, I want to be able to log into an account that I’ve already created
  - Acceptance Criteria
    - Login page that allows user to login to an existing account with valid email and password
    - Login button disabled without all fields populated
    - Error message “Invalid credentials” displayed for incorrect credentials (e.g. wrong password, no account found)

## Known Problems

**Known Problems:** List the major bugs (you can reference your Test Report), omissions (missing functionality, edge cases that are not handled), design shortcuts (e.g. hard coded data), etc.

### Design Shortcuts:

- Some of our components (components in /frontend/src/components/AddBathroom/\* and ones used in the MapHeader) don't use React Context because of how they were initially designed. As a result, some props are passed through multiple times rather than just once in context, and hooked into using React's capabilities.
- Due to using Supabase for Authentication instead of setting out our own Auth system with our backend, currently the user ids are exposed in HTTP requests made to the backend that require the user id. This is a data leak, as the standard is to encrypt the user id using an authentication token (ex: JWT), so no party can gain access to the unencrypted version via the HTTP request.

### Omissions:

- When adding a new bathroom, the user has to manually select the bathroom location; our app is missing the ability for the pin to automatically be placed at the user's current location, which can then be moved around manually if desired
- If a building has multiple floors, current navigation technology is unable to granularly navigate to different floors.
- Due to limitations in navigation technology, a user may not be navigated to the bathroom exactly when they click the navigate button on the app.
- If the user's device is unable to get their current location, the application defaults to being centered in Santa Cruz

### Missing Functionality:

- Ability to filter bathrooms with specific properties
- Ability to edit a bathroom created by another user
- If a creation of a bathroom is unsuccessful due to required missing properties (bathroom name & description), currently nothing happens. However, it would help the user if there was a visual indication of the property that the user was missing
- Verification that email exists before account creation
- No way to reset / change password
- No check for duplicate bathrooms

## Product Backlog

- User Story 4: As a user of this app, how can I tell if the bathrooms are stocked with toilet paper/how often they are cleaned
- User Story 7: As a user of this app, I want to be able to save bathrooms to my profile so that I can navigate to them later
- User Story 10 : As a user of this app, I want to be able to add details to a bathroom added by another user to give information about the bathroom to others using the app.
- User Story 11 : As a user of this app, I want to be able filter bathrooms that match specific requirements (eg. gender neutral)
- User Story 14: As a user, I want to be able to see a picture of what the bathroom looks like so that I can find it easily.
- User Story 15: As a user, I want to help ensure that the map is accurate, so people can easily find a bathroom