

# Working Prototype Known Problems Report

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5/31/2022 (Tentative)

Sometimes it takes a moment for homepage statistics to update and change is only reflected when moving from a page back to reload homepage:

This issue occurs in the `homepage_page.dart` file, in the `initstate` function for the class. Perhaps there needs to be some other addition of update functions but where has not been identified. Perhaps this is also latency to the backend and there needs to be some sort of optimization not found yet.

Sometimes it takes a moment for water page to connect to the backend so new changes are only reflected when moving from a page back to reload the water page:

This issue occurs in the `water_page.dart` file when adding a new entry or loading the page for the first time. The function responsible for updating values is called in `init state` but there are times when it will not fully complete. This problem is related to the above issue and can also be a latency issue to be able to update the widgets.

To generate the list of quotes, all 1600 quotes must populate the list upon the loading of the phone, which may be inefficient

This issue occurs in the `homepage_page.dart` file.

For users who just installed the app and cannot read their steps there may be an issue with the physical activity permissions (android).

This issue occurs in the `step_page.dart` file. The problem stems from the fact that we could not get the app to prompt users to give permissions. It can be solved by going to the app info in the settings and giving permissions to the physical activity tracker.

Images may not render as intended by color due to light and dark mode.

This issue occurs in the acknowledgements page.

If users try to put in a very large number into the water page for either goal or drank amount there is an integer overflow in the water page (but it works on the chart page).

This issue occurs in the water page.

If users try to put in a decimal number into the steps page for the goal amount it will not record.

This issue occurs in the steps page.

If users try to put in a decimal number into the water page for either goal or drank amount it will not record.

This issue occurs in the water page.

If users try to put in a very large number into the steps page for the goal there might be an integer overflow in the water page (but it works on the chart page). But also it will severely impact performance by making the app larger cause everything is stored locally.

This issue occurs in the steps page.

If users try to create a journal entry with a large amount of text, the app may not properly handle this. This is untested as it would be hard to create enough entries with enough text.

This issue may occur in the journal page.

There might be an issue making many entries for the journal in terms of performance.

This is due to the database being local. The issue is in the type of database we use.

There is currently no functionality to delete old water entries. This proved difficult to do and users must be careful not to make mistakes when inputting new data.

This issue occurs in the water page.

There is an issue in the water page when entering data in for the amount drank and then changing the goal (or vice versa). The issue is the entry form is not cleared so any value added in one will remain in the text box when opening the other.

This issue occurs in the water page.

Null values appear on the water page when it is not yet initialized. Entering values fixes the issue, and so does reloading the page.

This issue occurs in `water_page.dart` and can be fixed by an added string validation function like in `homepage_page.dart`. This way it will check if the values are null and change them to 0's.

When the app is run, there are warnings produced by the linear percentage indicator package. This is due to an issue with null safety in flutter.

This issue occurs when running the app. The issue cannot be seen by users of the app in a normal environment.

There may be issues in the iOS version of the app regarding the Steps Page.

This issue occurs in the steps page and we were not able to test it because we could not put the app on an iOS device.

## List of suggested user stories/acceptance criteria for actual acceptance test/project review

- (User story 4/ Sprint 4) : As someone concerned with my personal growth, I want to be able to see my progress all in one place.
  - Have an area where the user can see acknowledgements.
- (User story 2/ Sprint 4) : As someone who lives in the states, I want all my units for tracking to be in familiar units
  - The units for water should be in ounces. "ml" should appear no where on the screen.
- (User story 1 Sprint 2 ) : As a person who doesn't drink enough water, I want to keep track of my water intake in order to stay hydrated.
  - Add water to your chart
  - Ability to change goal

- Chart updates with new water information
  - Displays goal
- (User story 4/ Sprint 3) : As someone concerned with my personal growth, I want to be able to see my progress all in one place.
  - Allow user to view statistics on their water, steps for the week
  - On the homepage, a quote with an author and title should properly display. Upon each reload of the app, a new quote should appear.
  - Each page of the app should correctly title the appbar with the proper title.
- (User Story 2 Sprint 2) : As an inactive person, I want to see my steps, so that I can know how much I need to walk every day.
  - Ability to see steps displayed functionally for that day.
  - Steps behavior updates when the user moves and steps are registered.
- (User story 3 Sprint 2) : As someone who has a lot on my mind, I want to be able to take note of my thoughts.
  - UI display area exists to see preview of all journal entries and updates entry is added.
  - Behavior should be that a button exists on the bottom right where users can create a new entry. When this is clicked, the user can add a new journal entry and save it.
- (User story 4 Sprint 2) : As someone who wishes to see my personal progress, I want to be able to view past entries from my journal.
  - Users should also be able to tap on a journal entry displayed in the main UI area and edit or delete it.
  - When going to another page, coming back to the journal page should allow old entries to persist.