Cognitive Walkthrough
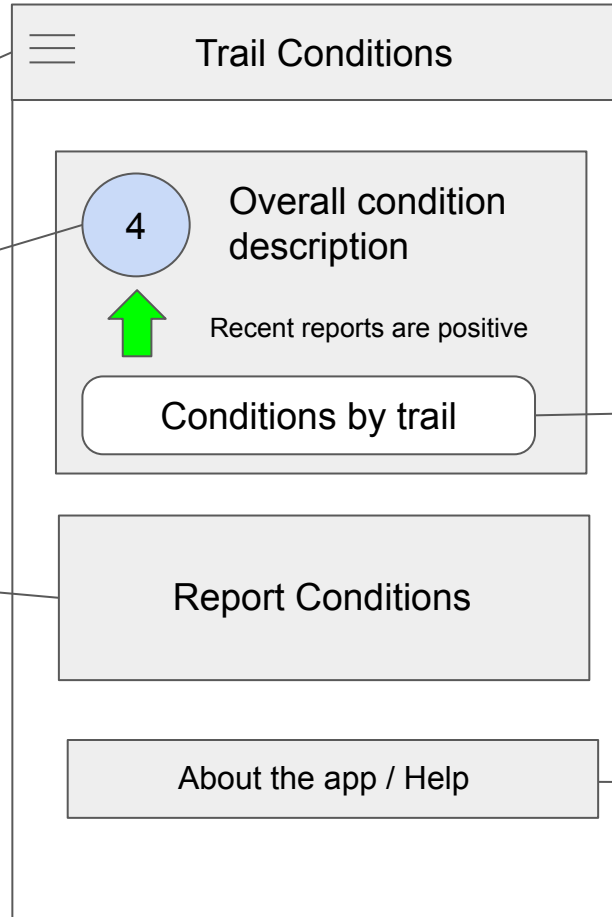
Streams & Trails App

Home Page

Navbar

Condition rating on scale from 1-5 for all trails

Link to report conditions page

Trail Conditions

Overall condition description

4

Recent reports are positive

Conditions by trail

Click to view recent reports / List of trails

Report Conditions

About the app / Help

Give some FAQs about the app and its purpose

Navbar

✕ Trail Conditions

Home

All Trails

New Report

About

Login

✕ Trail Conditions

Home

All Trails

New Report

About

Statistics
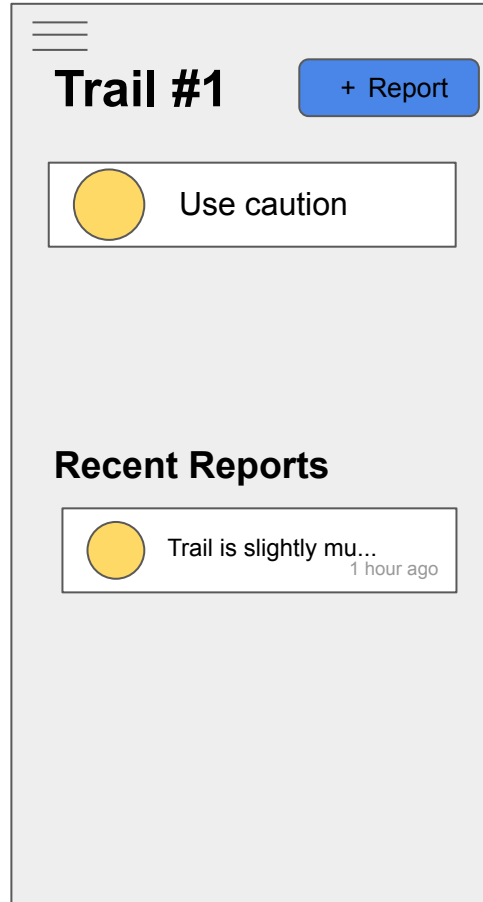
Upload Data

Export Data

Logout

Trail report form

≡

Select Trail *(dropdown?)*

MM/DD/YY *(autofilled)*

XX:YY AM/PM *(autofilled)*

Condition (rated 1 to 5)

Optional Notes

Caution *(optional checkbox?)*

Coordinates *(checkbox to enable?)* ——————— Possibly let users select point on a map
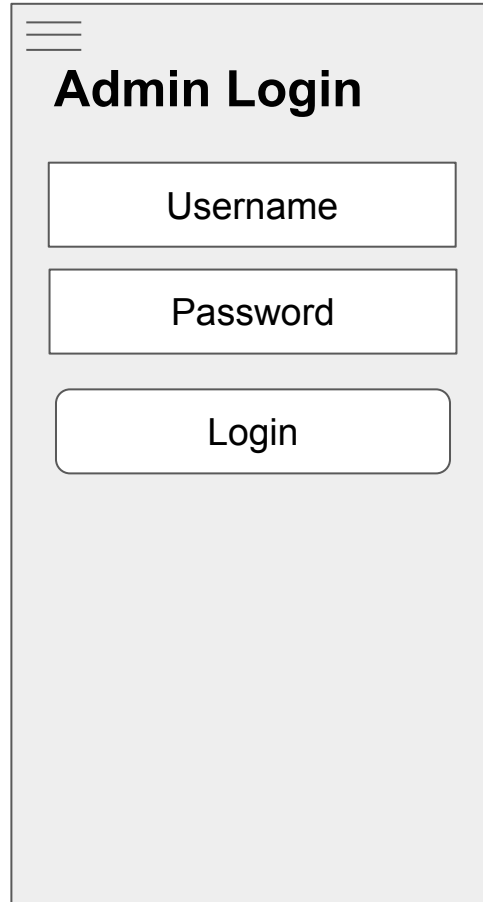
Submit

Trails List

Trails

+ Report

A sample trail	⇒

A sample trail	⇒

A sample trail	⇒

A sample trail	⇒

A sample trail	⇒

A sample trail	⇒

Trails details page

Trail #1

+ Report

Use caution

Recent Reports

Trail is slightly mu...

1 hour ago

Login Page

Admin Login

Username

Password

Login

User Management Page

Name	Email	Edit
Test user	test@example.com	✏️

Users

Add User

Add a user page

Add a user

Name:

Email:

Invite

Authenticated home

Includes basic stats

Has Option for Download and Upload of Data

Researcher Dashboard

3.5   6

Select Trail

Avg Trail Condition Rating & Number of Reports (Last 24 hr)

Days Since Last Precipitation

Download Data
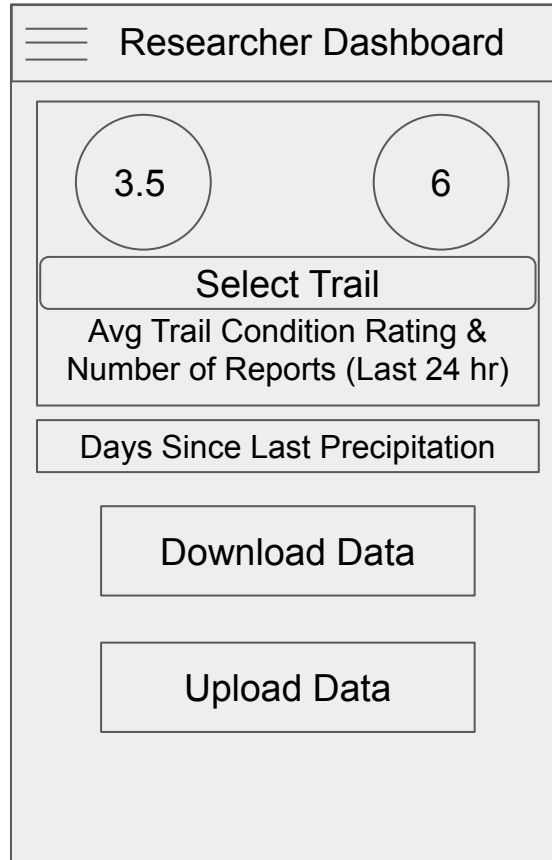
Upload Data

Upload data page (privileged user)

Sensor data uploading -- for sensors that don't automatically upload
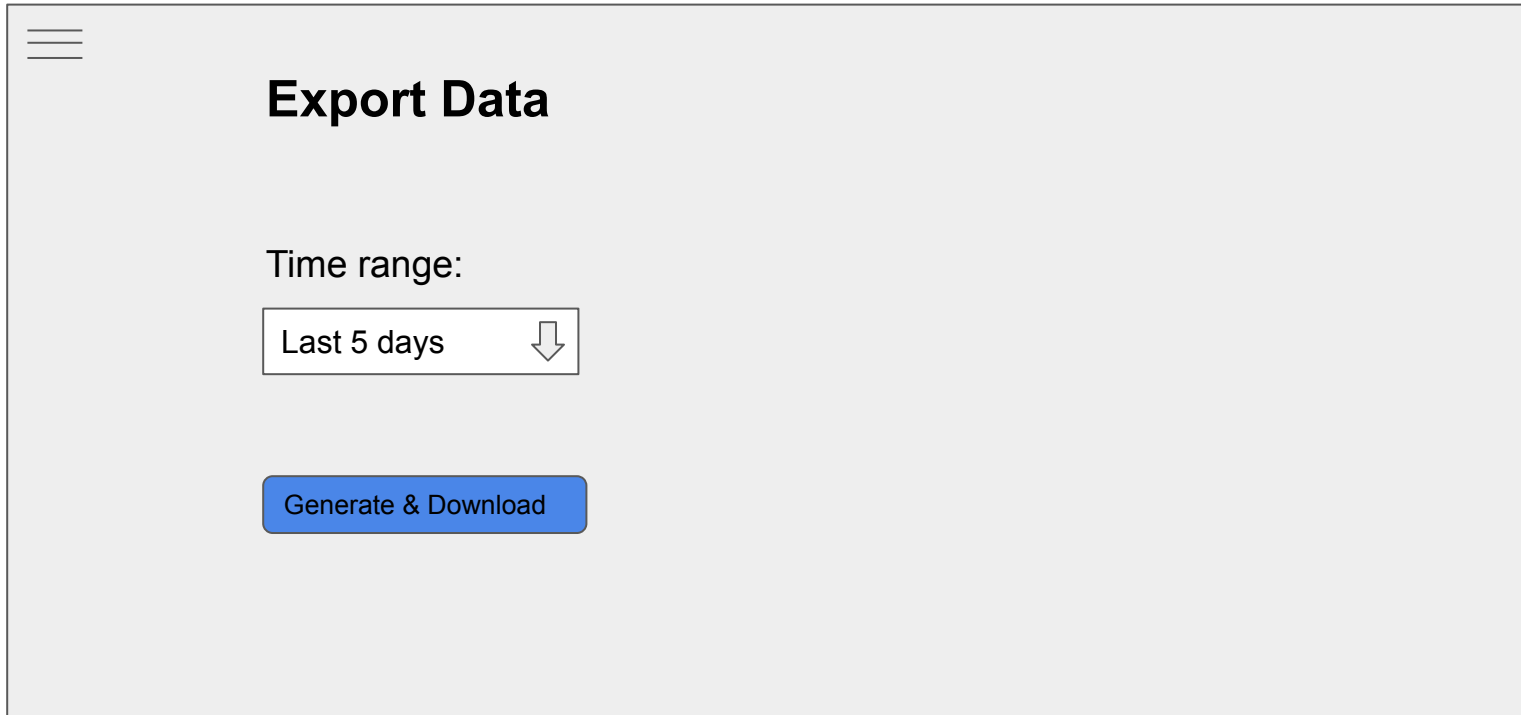
Upload .CSV

Submit

There'll also possibly be a REST API available for sensors to automatically upload data

Manual Data uploading

Select Trail *(dropdown)*

Coordinates

MM/DD/YY *(autofilled)*

XX:YY AM/PM *(autofilled)*

Dissolved O2

Specific Conductivity

Temperature

Stream Gauge

Days since Precipitation

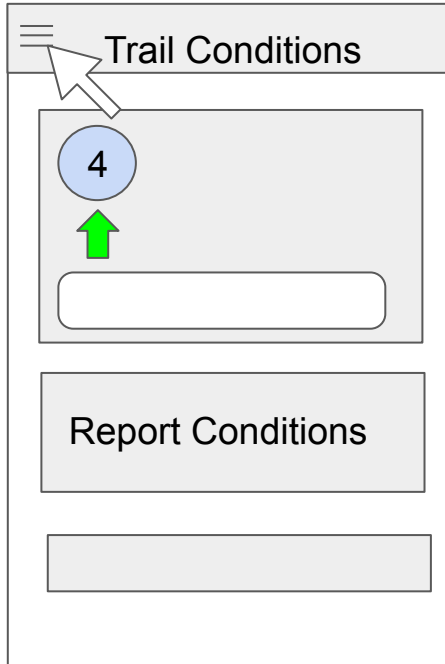**Submit**

Export data page

Export Data

Time range:

Last 5 days ⬇

Generate & Download
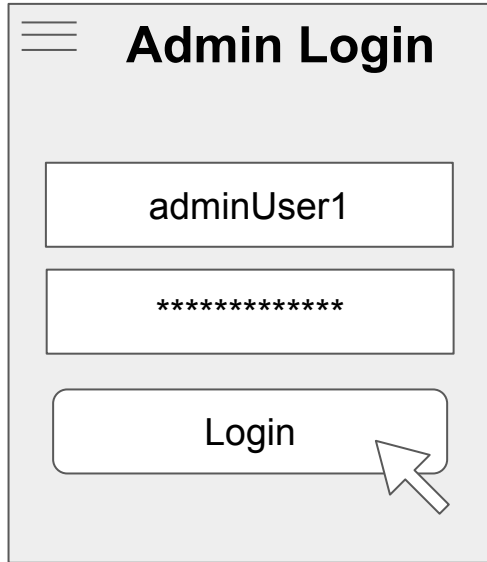
Use Scenario 1 - Researcher exports .csv data
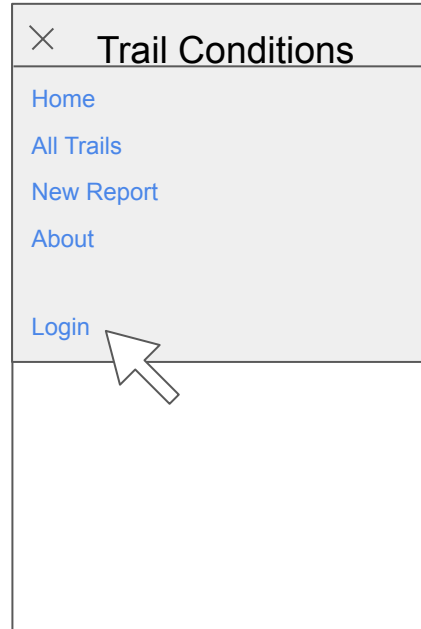
Users - Researcher

Environment - Office

Scenario Description -

The researcher wants to find data about how many users there were for the trail last year
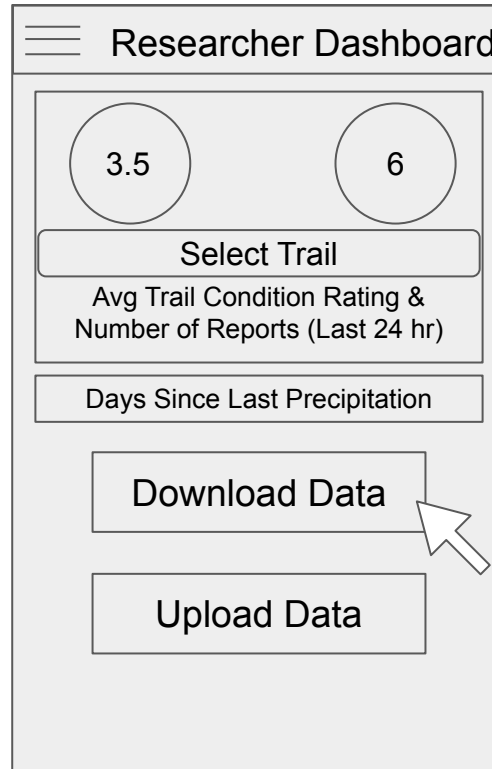
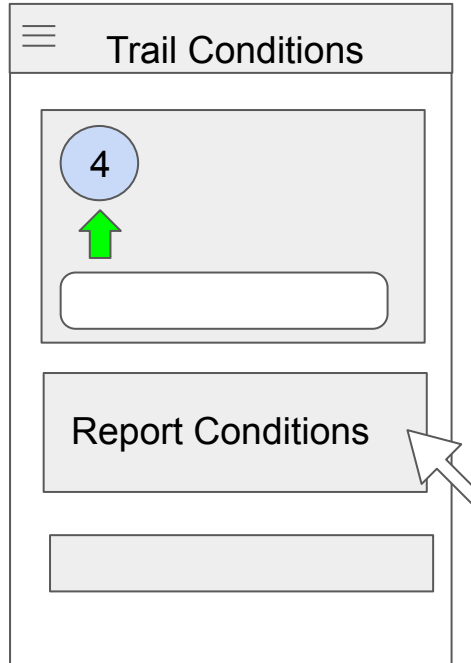# Use Scenario 1 - Researcher exports .csv data

Use Scenario 2 - User Submitting Trail Report
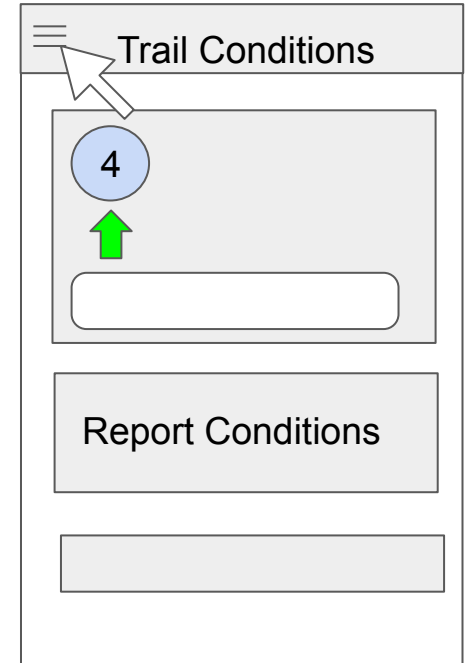
Users - Trail user

Environment - End of the trail

Scenario Description -

The user wants to report the conditions they observed after hiking the trail, but they attempt to submit invalid coordinates

Use Scenario 2 - User Submitting Trail Report

Trail Conditions

Home
All Trails
New Report
About

Login

*if option 2

Select Trail

MM/DD/YY *(autofilled)*
XX:YY AM/PM *(autofilled)*

Condition (1 to 5)

Optional Notes
...

Caution
Coordinates

User submits coordinates not located in trail system

Select Trail

MM/DD/YY *(autofilled)*
XX:YY AM/PM *(autofilled)*

Condition (1 to 5)

Optional Notes
...

Caution
Error! Invalid coordinates!

Submit

Usability Goals & Concerns

Goals:

- App is easy to use for a wide variety of User Types.
- App is easy to use on a mobile device.

Concerns:

- Duplication of Information and Views (particularly with the researcher vs trail user home screens)
- User entering incorrect and/or invalid data