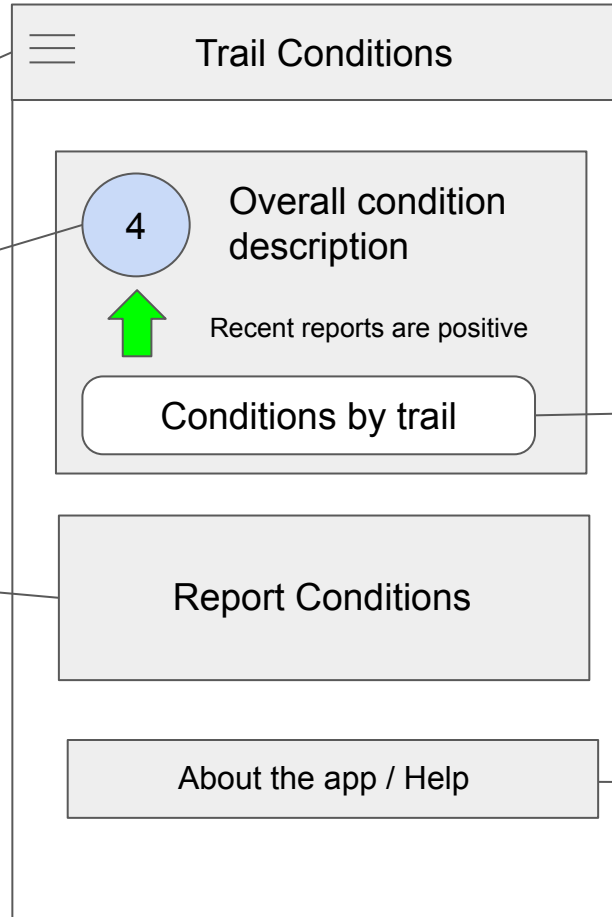


Cognitive Walkthrough

Streams & Trails App

Home Page



Navbar

Condition rating on scale from 1-5 for all trails

Link to report conditions page

Click to view recent reports / List of trails

Give some FAQs about the app and its purpose

Navbar

unauthenticated

Trail Conditions	
✕	
Home	
All Trails	
New Report	
About	
Login	

authenticated

Trail Conditions	
✕	
Home	
All Trails	
New Report	
About	
Statistics	
Upload Data	
Export Data	
Logout	

Trail report form

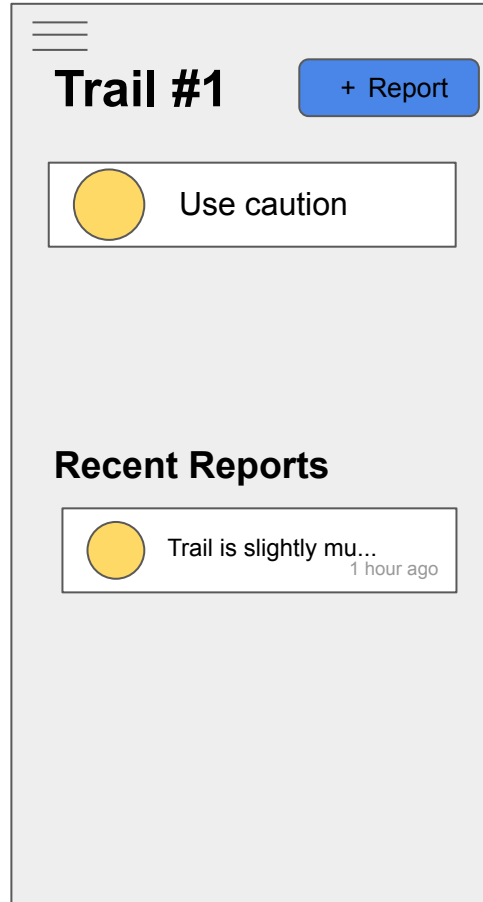
A wireframe of a trail report form. At the top left is a hamburger menu icon. The form contains the following elements from top to bottom: a 'Select Trail' dropdown menu; a date input field 'MM/DD/YY' with '(autofilled)' text; a time input field 'XX:YY AM/PM' with '(autofilled)' text; a 'Condition (rated 1 to 5)' input field; an 'Optional Notes' text area; a 'Caution' input field with '(optional checkbox?)' text; a 'Coordinates' input field with '(checkbox to enable?)' text; and a 'Submit' button at the bottom.

Possibly let users select point on a map

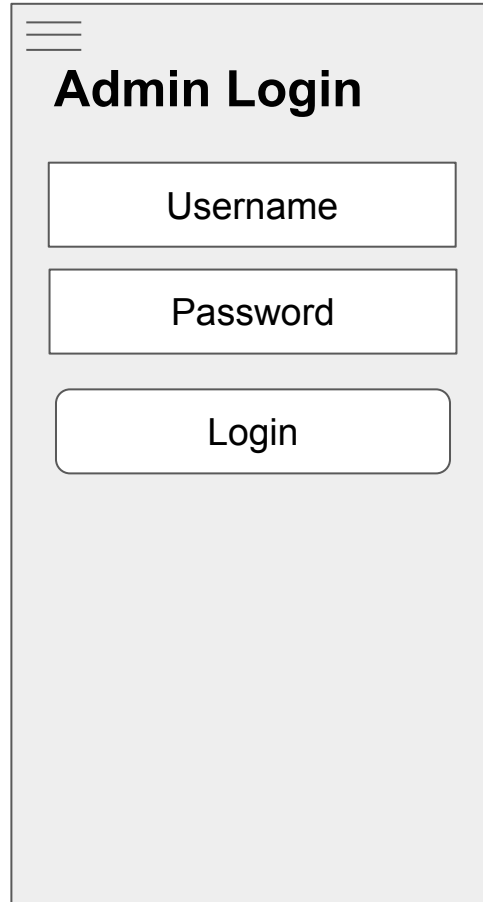
Trails List



Trails details page



Login Page



The image shows a mobile-style login form titled "Admin Login". It features a hamburger menu icon in the top left corner. Below the title, there are three input fields: a "Username" field, a "Password" field, and a "Login" button. The form is set against a light gray background.

☰

Admin Login

Username

Password


Login

User Management Page

☰

Users

Add User

Name	Email	Edit
Test user	test@example.com	

Add a user page



The image shows a user interface for adding a new user. It features a light gray background with a hamburger menu icon in the top-left corner. The main heading is "Add a user". Below this, there are two input fields: one for "Name:" and one for "Email:". At the bottom of the form is a blue button labeled "Invite".

☰

Add a user

Name:

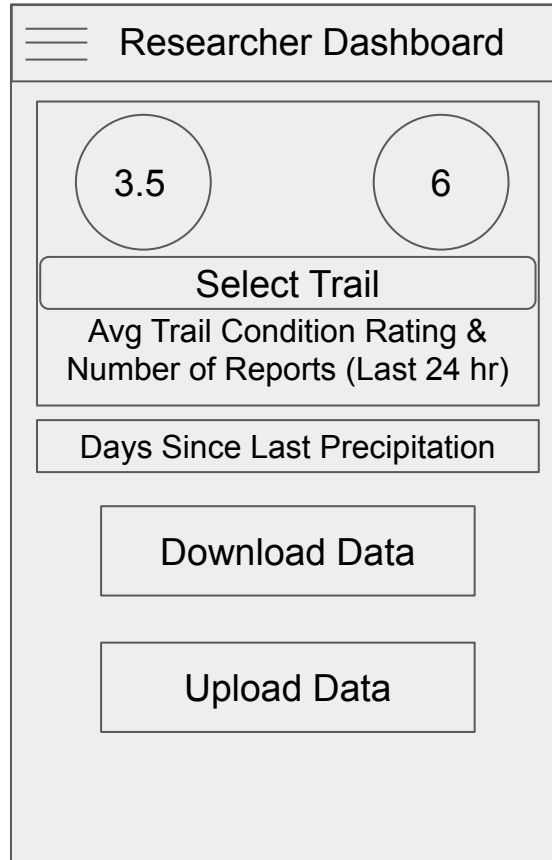
Email:

Invite

Authenticated home

Includes basic stats

Has Option for
Download and Upload
of Data



Upload data page (privileged user)

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

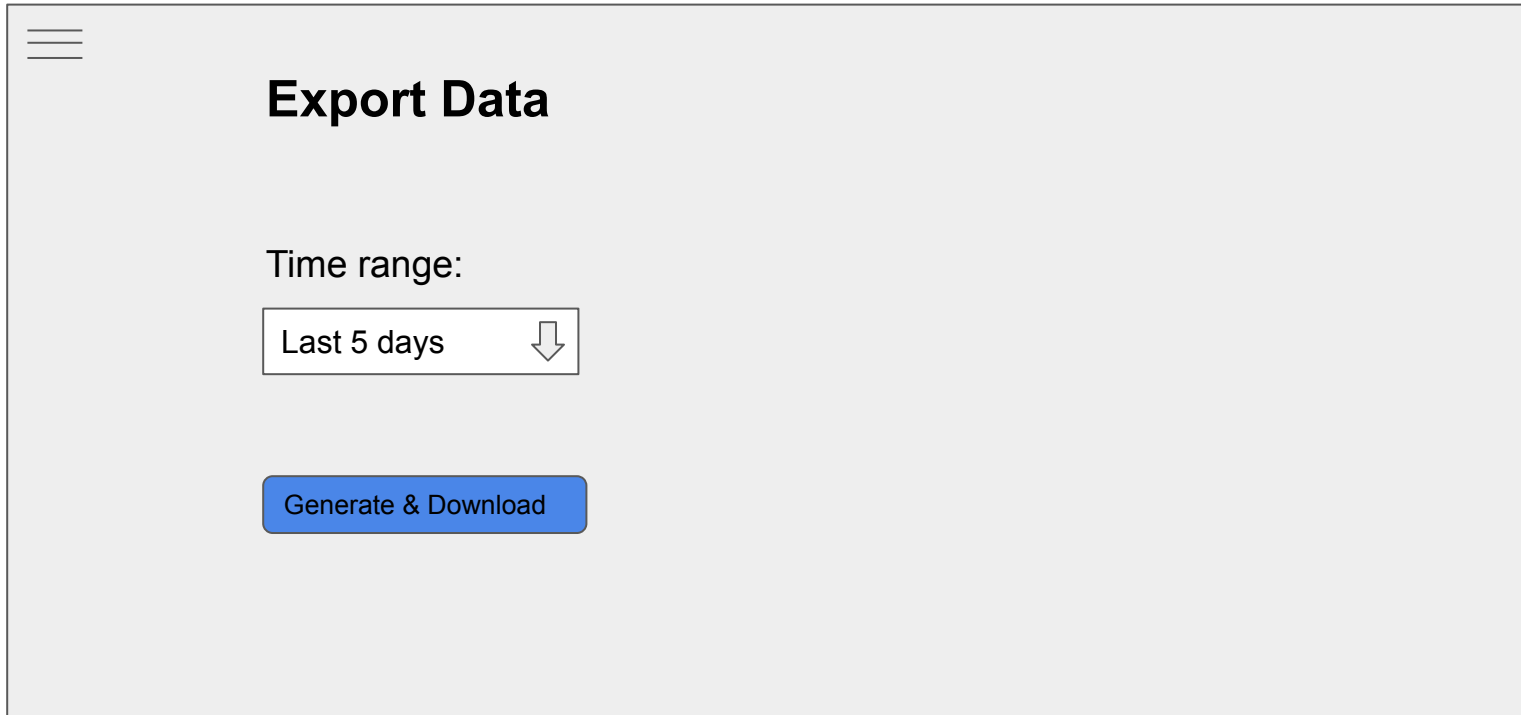
A mobile app interface for uploading sensor data. It features a hamburger menu icon in the top left corner. The main content area contains two large, light gray buttons stacked vertically: "Upload .CSV" and "Submit".

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

A mobile app interface for manual data uploading. It features a hamburger menu icon in the top left corner. The main content area contains a series of input fields and a "Submit" button. The fields are: "Select Trail" (dropdown), "Coordinates", "MM/DD/YY" (autofilled), "XX:YY AM/PM" (autofilled), "Dissolved O2", "Specific Conductivity", "Temperature", "Stream Gauge", and "Days since Precipitation".

Manual Data
uploading

Export data page



The image shows a user interface for exporting data. It features a hamburger menu icon in the top-left corner. The main heading is "Export Data". Below this, there is a label "Time range:" followed by a dropdown menu. The dropdown menu is currently set to "Last 5 days" and has a downward-pointing arrow icon. Below the dropdown menu is a blue button with the text "Generate & Download".

☰

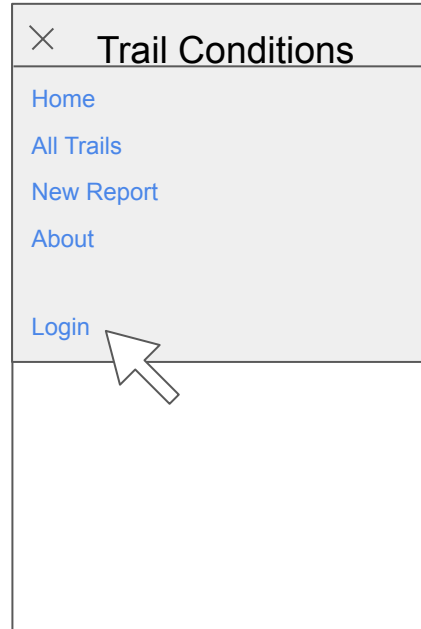
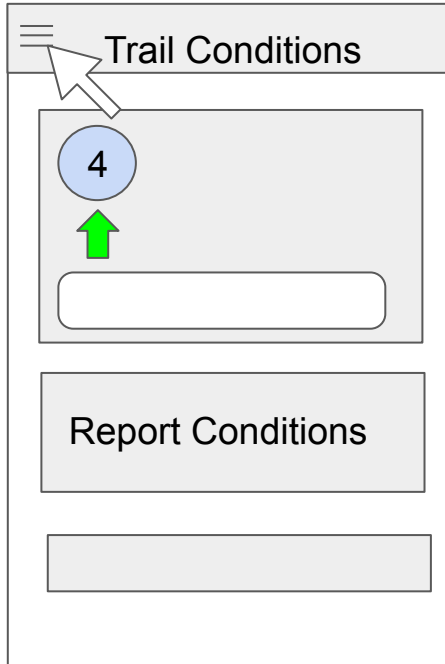
Export Data

Time range:

Last 5 days ↓

Generate & Download

Use Scenario 1 - Researcher exports .csv data



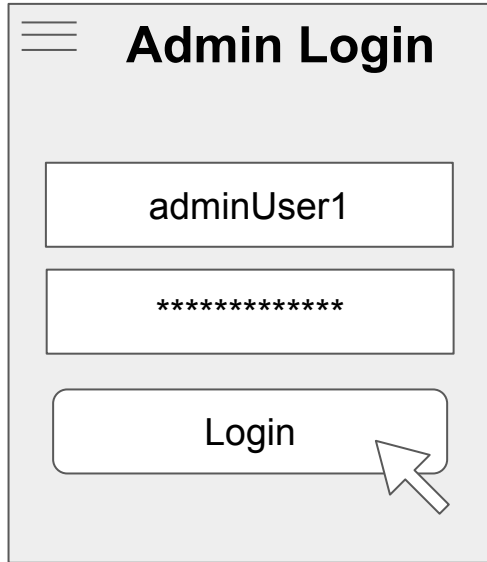
Users - Researcher

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

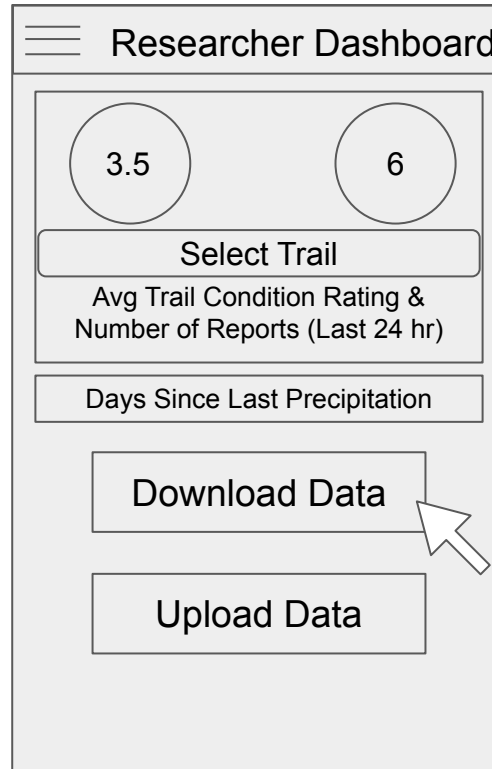


Admin Login

adminUser1

Login

This screen shows the login interface for an administrator. It features a hamburger menu icon in the top left corner. Below it, the title "Admin Login" is displayed. There are two input fields: the first contains the text "adminUser1" and the second contains a series of asterisks representing a masked password. At the bottom, there is a "Login" button with a mouse cursor pointing to it.



Researcher Dashboard

3.5

6

Select Trail

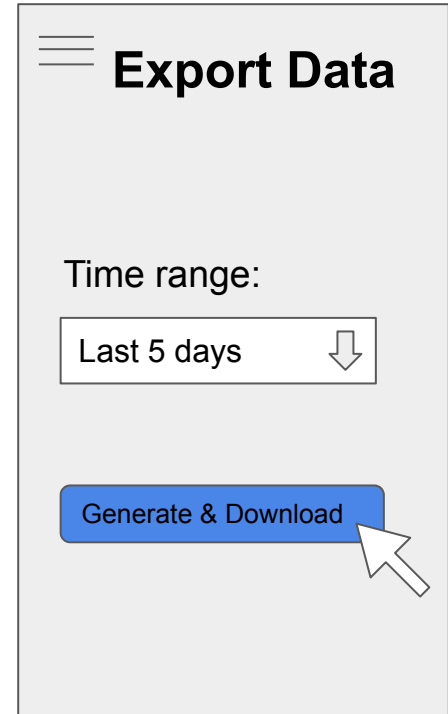
Avg Trail Condition Rating & Number of Reports (Last 24 hr)

Days Since Last Precipitation

Download Data

Upload Data

This screen displays the researcher dashboard. It includes a hamburger menu icon and the title "Researcher Dashboard". At the top, there are two circular gauges showing values "3.5" and "6". Below these are three buttons: "Select Trail", "Days Since Last Precipitation", and "Download Data". The "Download Data" button has a mouse cursor pointing to it. At the bottom, there is an "Upload Data" button.



Export Data

Time range:

Last 5 days

Generate & Download

This screen is for exporting data. It features a hamburger menu icon and the title "Export Data". Under the heading "Time range:", there is a dropdown menu currently set to "Last 5 days". At the bottom, there is a blue "Generate & Download" button with a mouse cursor pointing to it.

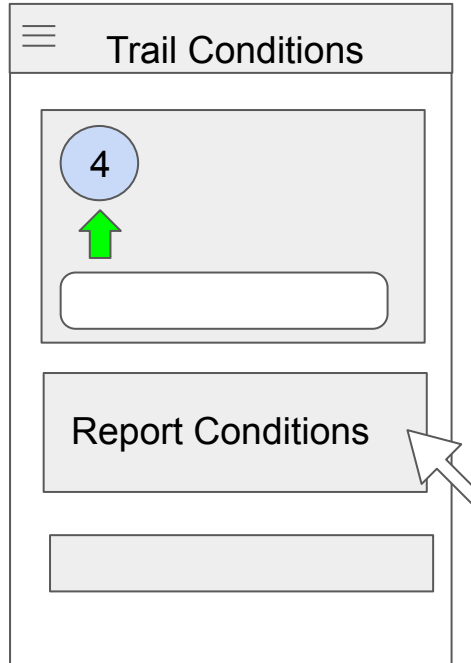
Use Scenario 2 - User Submitting Trail Report

Users - Trail user

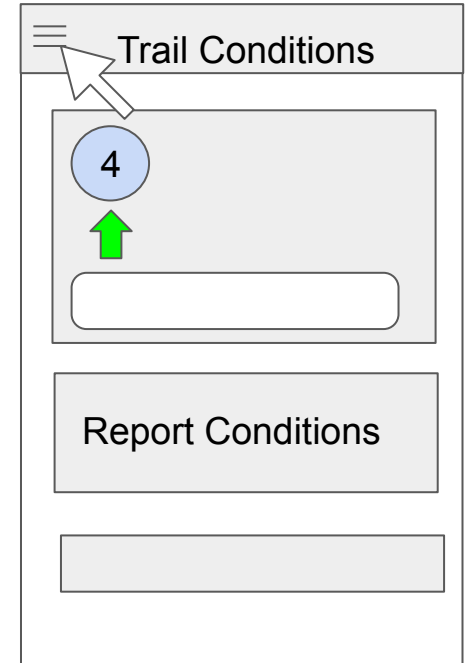
Environment - End of the trail

Scenario Description -

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




or



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