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Demo

<https://www.youtube.com/watch?v=2ann3AnD0-s>

We-a-ther

Our project, We-Ather, started with a frustration we all shared: weather is almost always wrong. We constantly checked forecasts, only for them to fail us in the moments that mattered. Whether it was unexpected rain, inaccurate wind, or a “warm day” that felt freezing. Traditional forecasting works on broad models, but it often can’t capture what people actually experience on the ground, in real time.

That led us to a question: What if weather wasn’t just predicted from the top down, but reported from the bottom up? What if the people experiencing the weather could help create the forecast?

This idea became We-Eather, a crowdsourced weather platform that gives users the ability to submit real-time observations like temperature, rain, wind, and even subjective descriptions such as “humid,” “icy,” or “feels like summer.” These reports form a constantly updated map powered by the people actually outside.

We-Eather reflects a belief that weather is personal, local, and collaborative. Crowdsourcing can improve accuracy, lived experience matters, and community data can reveal patterns models miss.

We built We-Ather because we’re tired of inaccurate forecasts, and because we believe the best weather information comes from the people living in it.

Project Tracker

<https://github.com/orgs/CU-CSCI3308-Fall2025/projects/20>

The screenshot shows a GitHub Project Tracker board titled "Recitation-014-Team-7". The board is divided into four columns: "Todo" (0 items), "In Progress" (0 items), "Done" (17 items), and "Ice Box" (0 items). The "Done" column is currently active, displaying a list of completed tasks. Each task card includes a title, a brief description, and a link to the GitHub repository. The tasks listed are:

- group-project-We-ather #11 - Display feed
- group-project-We-ather #10 - Upload photo
- group-project-We-ather #4 - Setup React
- group-project-We-ather #2 - Setup docker
- group-project-We-ather #8 - Recent searches

At the top of the board, there are buttons for "Add status update", "Insights", "Workflows", and "Save". There are also "Discard" and "Save" buttons in the top right corner of the board area.

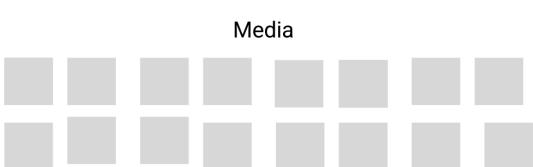
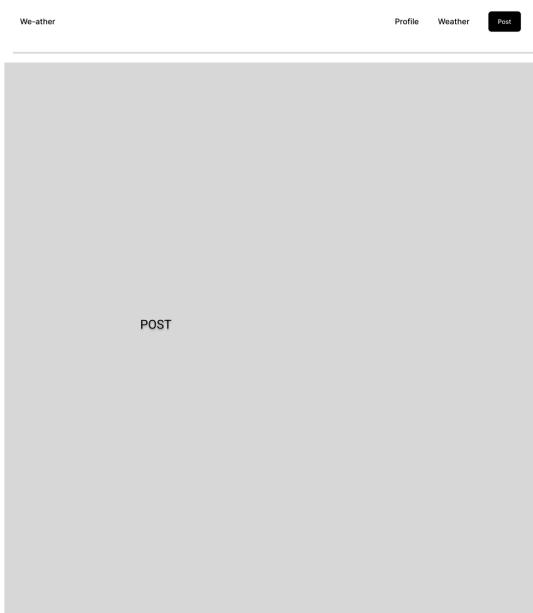
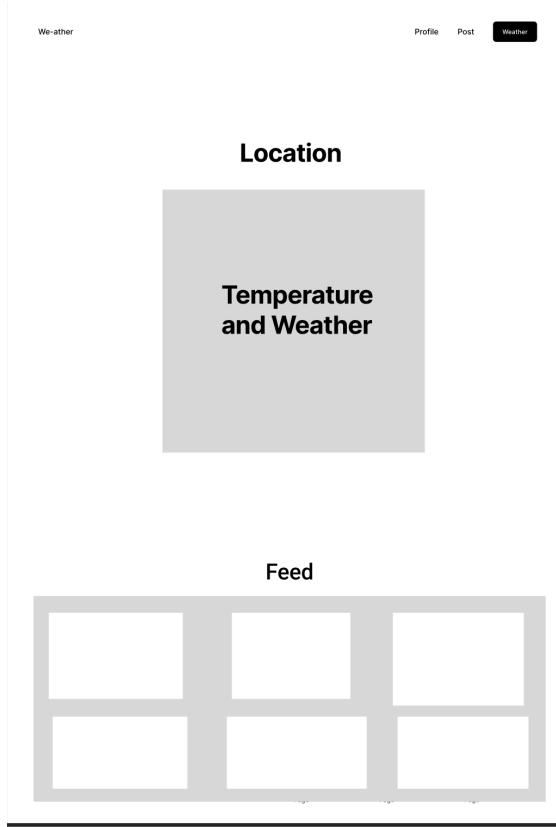
Github Repo

<https://github.com/CU-CSCI3308-Fall2025/group-project-We-ather>

Contributions

Sebastian - I worked mostly on the back end working on the uploading posts and images features, autocomplete feature, current location feature, delete post feature. I also did the front end for the posts feed and profile display.

Wireframes



We-ather

Post Weather

Profile



Full Name

Country, username

Bio

Body text

Follow

member since ...

Related products



Date
weather
analytics and interactions

Date
weather
analytics and interactions

Date
weather
analytics and interactions



Date
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Site name

Topic

Topic

Topic

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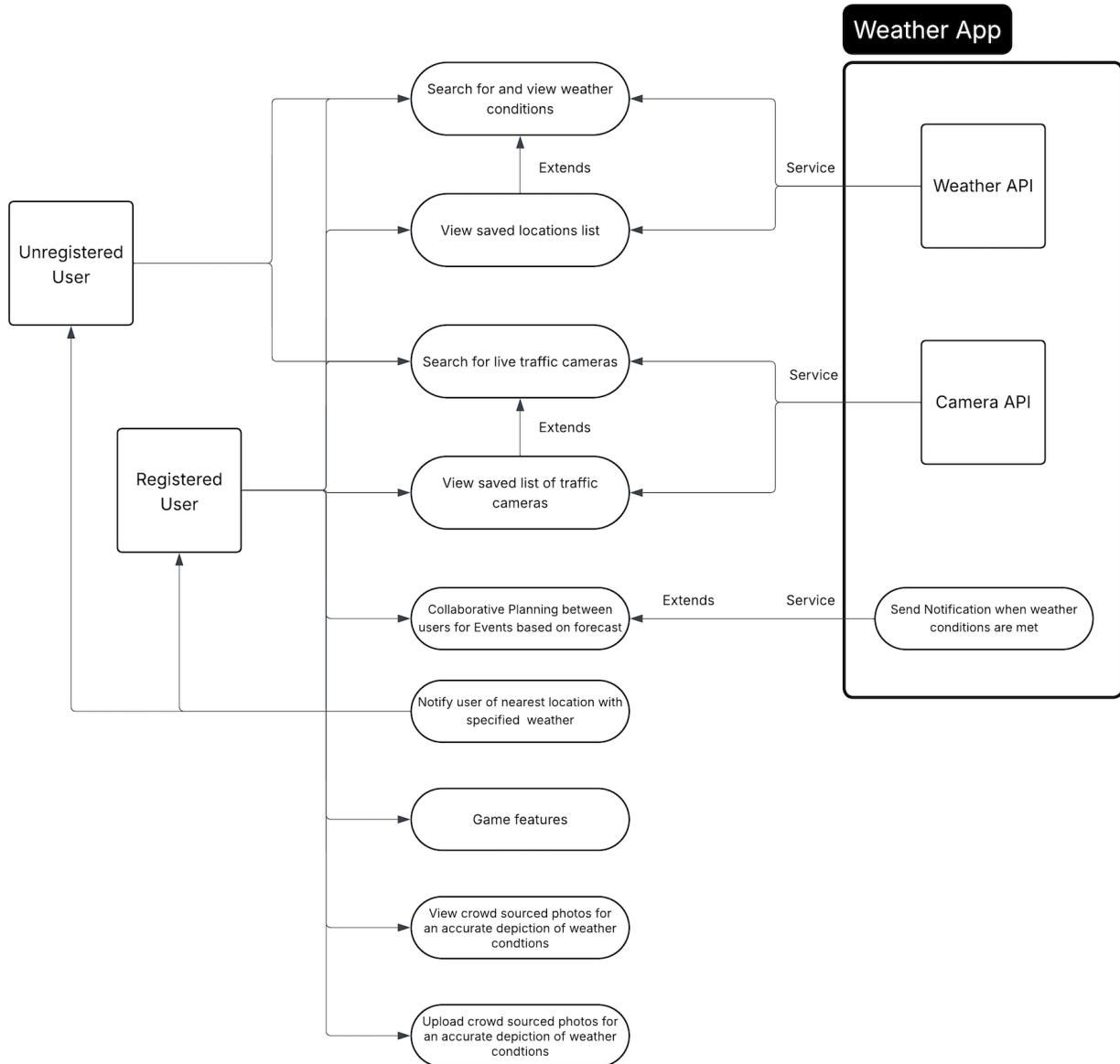
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Use Case Diagram



Deployment link

<https://group-project-we-ather.onrender.com/>

User Acceptance Testing (UAT) plan

Project: We-ather

Team Members: Sebastian, Brody, Max, Daniel

Date: Nov. 6 2025

- **Expected Result:**
Displays message: "Username already exists." Registration fails.
- **Actual Result:**
Duplicate registration correctly rejected.
- **Test Environment:**
localhost, Node.js/Express backend, PostgreSQL database, Chrome browser.
- **Tester:**

Feature 3: Weather Search and Autocomplete

Objective:

Ensure that users can search for weather data by city name, see autocomplete suggestions, and get accurate weather information.

Test Case 1: Valid City Search

- **Test Data:**
 - City: Boulder, CO
- **Steps:**
 1. Go to /home.
 2. Type "Boulder" into the search bar.
 3. Select "Boulder, CO" from autocomplete dropdown.
 4. Click "Search."
- **Expected Result:**
Displays current weather information for Boulder (temperature, humidity, conditions).
- **Actual Result:**
Weather data loads and displays correctly.
- **Test Environment:**
localhost, Node.js/Express backend, OpenWeather API, Chrome browser.
- **Tester:** Sebastian Martinez

Test Case 2: Invalid City Search

- **Test Data:**
 - City: asdfghjkl (nonexistent)
- **Steps:**
 1. Go to /home.
 2. Type a random invalid city name.
 3. Click "Search."
- **Expected Result:**
Displays message: "City not found" or "Invalid input."
- **Actual Result:**
Error message shown properly, no crash.
- **Test Environment:**
localhost, Node.js/Express backend, OpenWeather API, Chrome browser.
- **Tester:**

Feature 2: User Registration

Objective:

Ensure that users can register new accounts with unique usernames and that errors display for duplicate or incomplete input.

Test Case 1: Successful Registration

- **Test Data:**
 - Username: newuser
 - Password: newpassword123
- **Steps:**
 1. Go to /register.
 2. Fill out all fields and click "Register."
- **Expected Result:**
User is redirected to the login page after successful registration.
- **Actual Result:**
Works as expected. User appears in the database.
- **Test Environment:**
localhost, Node.js/Express backend, PostgreSQL database, Chrome browser.
- **Tester:**

Test Case 2: Duplicate Username Registration

- **Test Data:**
 - Username: testuser (already registered)
 - Password: password123
- **Steps:**
 1. Go to /register.
 2. Enter a username that already exists.
 3. Click "Register."