

Weather API Project Proposal

1. Overview:

What is the problem we are trying to solve? Moms often need to prepare their children for the day but are unsure of the weather conditions, especially in the morning when they're in a rush. They need quick access to accurate, localized weather data to make decisions about clothing, outdoor activities, and travel.

Why are we doing this? This project aims to simplify the process of checking weather forecasts, providing moms with essential weather information tailored to their needs in a user-friendly format. It will reduce the time and stress involved in planning for the day ahead.

Who is the audience? The primary audience is mothers or caregivers who need reliable and quick access to weather information to make decisions for their children's day (school, outdoor activities, etc.).

2. List of the major functions of the application. What will it do? List these in as much detail as you can.

Current Weather Overview:

- Display the current temperature, weather condition, and location.
- Include additional information like wind speed, humidity, and chance of rain.

Weather Alerts:

- Show severe weather alerts or warnings relevant to the user's location (e.g., storms, heatwaves).

Hourly and Daily Forecast:

- Provide a breakdown of weather conditions hour-by-hour and for the next 3-7 days, with details on temperature and precipitation.

Child-Specific Recommendations:

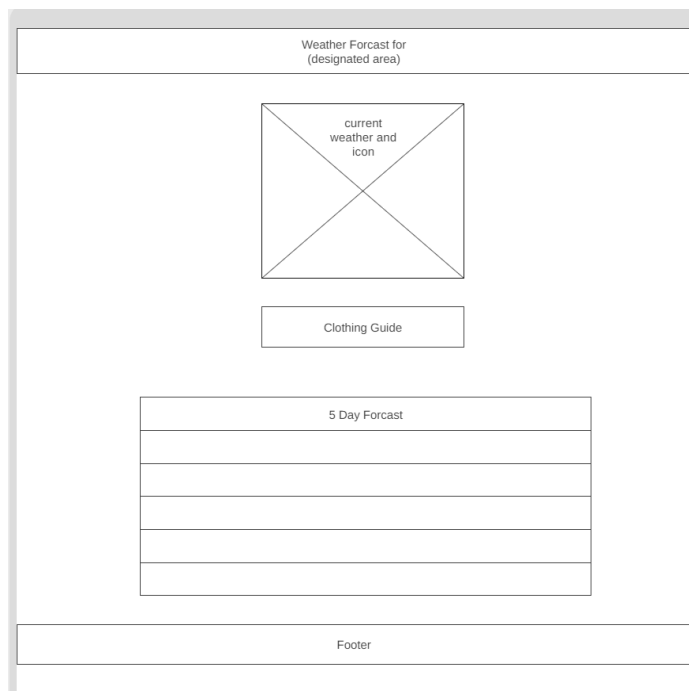
- Based on the weather, provide recommendations (e.g., “Dress warmly, it’s cold outside” or “It’s sunny, don’t forget sunscreen”).

Clothing Guide:

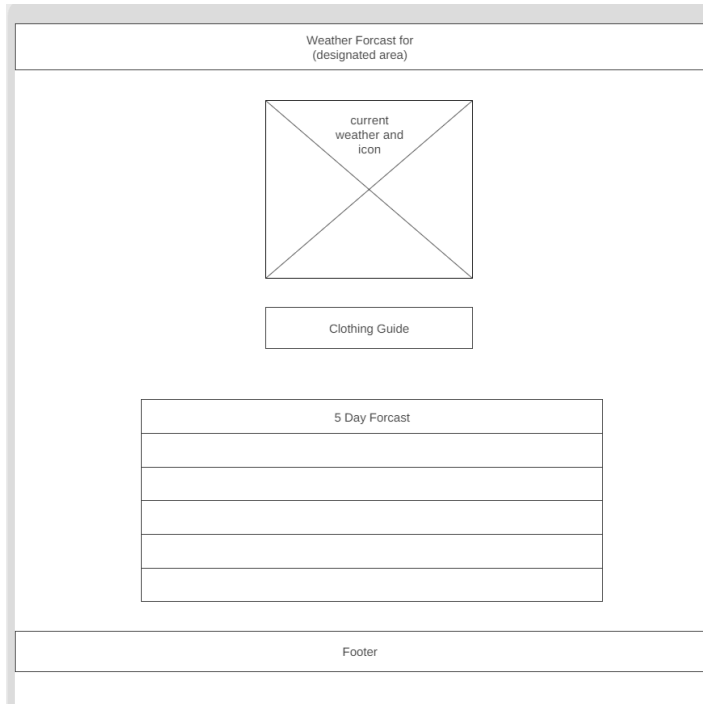
3. Suggest appropriate clothing based on the temperature (e.g., jackets for colder days, light clothing for hot weather).
4. Wireframes of the major views (Mobile and desktop...do the mobile wireframes first!)

The views will be basically the same since the app will be specifically for mobile views. Moms don’t often pull out a computer or desktop to check the weather, they use their phone since it is much easier to access and less likely to get damaged when kids are around.

Mobile



Desktop



5. External API Data source(s).

OpenWeatherMap API (<https://openweathermap.org/api>)

6. Initial Module list

Weather Data Module:

- Fetch weather data from the OpenWeatherMap API.

Location Management Module:

- Handle location-based weather fetching and manage favorite locations.

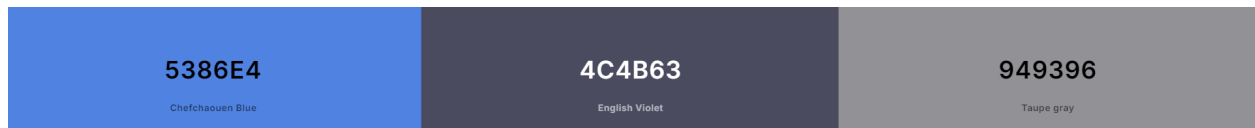
UI/UX Module:

- Manage layouts, transitions, and responsiveness for both mobile and desktop.

Recommendations Module:

7. Based on weather data, provide suggestions on clothing and outdoor activities.

8. Colors/Typography/specific element styling



Raleway

<https://fonts.google.com/specimen/Raleway>

9. Schedule to provide yourself mile markers along the way to help you stay on target.

Monday 14th - create HTML page, link CSS and Javascript

Tuesday 15th - Get API connected to the page

Monday 21st - Friday 25th - test and work out bugs, finalize page

10. Link to a Trello board with all the tasks you can think of at this point defined as cards. Again be as detailed as possible here.

<https://trello.com/b/ARJdwvZ5/wdd-330-final-project>

1. Recipe Finder
2. Meal menu builder (puts the recipes of the meals you want on specific days you designate)
3. Weather forecaster
4. Quote Generator