# **Weather Dashboard**

A responsive web application that provides weather information and forecasts for various cities.

## **Features**

* Current weather display
* 5-day weather forecast
* Interactive charts (temperature, weather conditions)
* Customizable themes based on weather conditions
* Chatbot for weather-related queries
* Responsive design for mobile and desktop

## **Technologies Used**

* HTML5
* CSS3
* JavaScript (ES6+)
* Chart.js for data visualization
* OpenWeather API for weather data
* Google Generative AI for chatbot functionality

## **Project Structure**

* dashboard.html: Main dashboard page
* tables.html: Detailed forecast table page
* dashboard.js: JavaScript for the dashboard functionality
* tables.js: JavaScript for the forecast table and chatbot functionality
* styles.css: Combined CSS styles for both pages

## **Setup**

1. Clone the repository
2. Replace OPEN\_WEATHER\_API\_KEY in dashboard.js and tables.js with your OpenWeather API key
3. Replace Gemini\_API\_KEY in tables.html with your Google Generative AI API key
4. Open dashboard.html in a web browser to view the application

## **Usage**

* Enter a city name in the search bar to get weather information
* Navigate between the Dashboard and Tables pages using the sidebar
* Use the chatbot to ask weather-related questions
* On the Tables page, use the buttons to sort and filter the forecast data

## **Responsive Design**

The application is designed to be responsive:

* Desktop: Full sidebar and multi-column layout
* Mobile: Collapsible sidebar and single-column layout

## **Future Improvements**

* Add user authentication
* Implement geolocation for automatic local weather
* Expand chatbot capabilities
* Add more interactive features to charts