Weather App

This project is a simple weather app focused on Stockholm, with features that allow users to check the current weather, view a 24-hour forecast, switch between Celsius, Fahrenheit, and Kelvin, and toggle dark mode. The app also includes an option to add favorite cities.

AI Declaration: OpenAI's chatgpt was used to help guide through the project whenever the original code I wrote would fail.

Resources and Assistance

I used some websites and online resources to help with building this app, including:

CodingNepal Web: For structuring the basic layout and functionality of the weather app. https://www.codingnepalweb.com/build-weather-app-html-css-javascript/

StackOverflow: To understand how to pass parameters with the onchange event. https://stackoverflow.com/questions/5024056/how-to-pass-parameters-on-onchange-of-html-select

WeatherStack Blog: For guidance on fetching weather data. https://blog.weatherstack.com/blog/building-a-simple-javascript-weather-app-using-weatherstack/

ChatGPT: Helped me implement certain parts of the code, like dark mode and switching temperature units. I have included comments in the code where this assistance was used. I mentioned in the script.js file where exactly I got help from chatgpt.

Project Overview

This Weather App allows users to view weather information for their favorite cities in a simple, user-friendly way. It gets data from OpeanWeather and WeatherAPI. It provides:

Current Weather: Shows the temperature, conditions, and other weather details in real time.

7-Day Forecast: Displays the weather forecast for the next 7 days, including high and low temperatures.

Dark Mode: The app automatically switches to a darker theme at night or lets users choose dark mode manually.

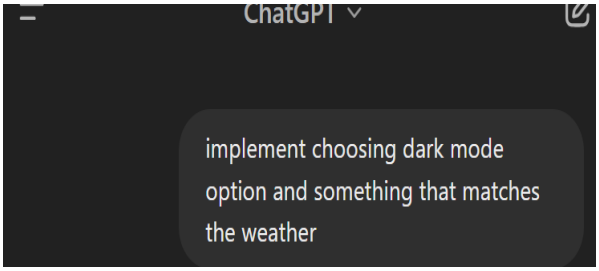
Custom Features:

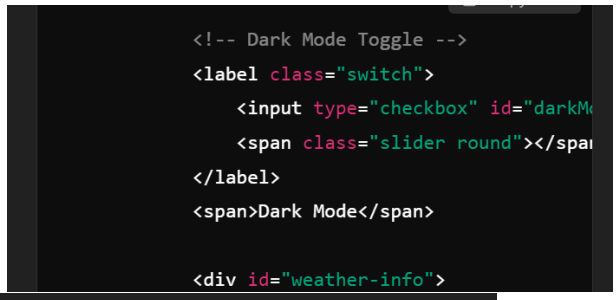
Add and view weather for any city.

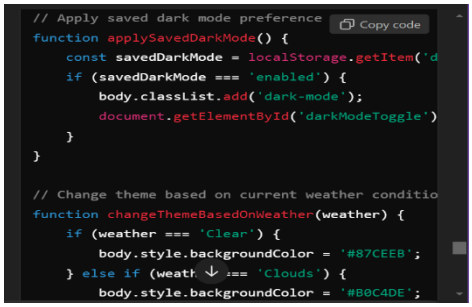
Switch between Celsius, Fahrenheit, or Kelvin units.

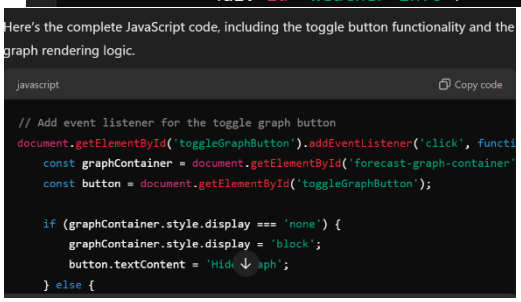
This app updates hourly and uses a simple, clean design for easy navigation.

Some proofs of how and where AI was used:









Why It Should Score Well

I believe the app meets the key requirements: it's responsive, has a clear structure, allows searching for cities, supports favorites, shows the current weather and a 24-hour forecast, and has dark mode and unit-switching options.

I think this app should get at least 36 points based on the provided criteria since it works as intended and includes all the necessary features. Here's the list of points I think I should get based on the features of the application. Even though, it is my second try, I hope this would be enough for me to pass the course.

Feature	Max points
User can search for locations	1
User can use his/her location GPS-coordinates (Geolocation API)	2
At least two data/forecast providers are used	3
At least three data/forecast providers are used	1
User sees the current weather at a specific location	1
User sees the forecast for the next 24 hour, with three hours interval	2
User sees the forecast for the next 7 days	3
All the weather forecast elements uses icons (and numbers) for e.g. sunny and cloudy weathers	3
The look and feel of the application reflects the current weather (e.g. it is blueish, when it is cold; reddish, when it is hot;, dark, when it is night…)	2
User sees simultaneously two forecast in a graph, e.g. there is temperature forecast for the next 24 hours and there are two lines telling how the data sources are providing (a bit) different data	0
User has the option to tag some locations as her favorites and thus access them from the favorites menu	2
User has an option to switch between celsius and fahrenheit degrees and kelvins	2
Well written PDF report	3
Application is responsive and can be used on both desktop and mobile environment	4
Application works on Firefox, Safari, Edge and Chrome	3
The application has clear directory structure and everything is organized well	2
I worked hard on this project. I kept on adding more features and it would become a mess but I think the end result is quite decent. The graph is not working for some reason and I tried getting getting weather forecast within every hour but with free openweather	36

subscription, it didn't work. But it is overall a responsive app and the aesthetic matches the weather and I think it looks good. So, overall I think I can get at least 36 points.	