

What was done:

I chose to create a weather app for my project. Although I wasn't able to implement all the features, I successfully implemented most of them. I drew a lot of inspiration from this YouTube video: <https://www.youtube.com/watch?v=2jjR-iGxVYM> , so the look and structure of my app are quite similar.

The weather app I made has several features that I will now explain. First of all, when the user opens the app, it shows the current weather for the user's location. The name of the location is also displayed as text. For example, if the app is showing the weather for "Lappeenranta" the text will display "Lappeenranta." Additionally, the weather app allows the user to search for weather data from any city in the world. For instance, if the user wants to know the weather in Manila, they just need to type "Manila" in the search box and click the search button. Note: Searching only works when the user clicks the search button, so pressing enter does nothing.

Besides showing the weather details for today, the app also displays a 24-hour and a 7-day forecast for the selected location. The app includes different weather icons for different weather conditions. For example, if it's snowing in Helsinki, the app shows a snow icon. The background color of the app changes based on the temperature. If the temperature is less than or equal to 0°C, the background is a blue shade. If the temperature is between 0°C and 15°C, the background is purple. When the temperature is between 15°C and 30°C, the background turns orange, and if it's above 30°C, the background becomes red.

The app also allows users to change the temperature unit between Celsius, Kelvin, and Fahrenheit by clicking the dropdown menu, that is located into "Temperature Unit: dropdown menu". Additionally, the user can save favorite locations by clicking the "Add to Favorites" button after typing the city they want to save in the search box. All the city that is added to "Favorites" will be listed down under "Your Favorite Locations" and besides each city listed is a "Remove" button that allows user to delete a city from "Your Favorite Locations" list. Lastly, when clicking any of the city that is listed as Favorite, the app will automatically show the weather details of that city.

Tools Used

The tools I used to create the project were the basic ones I learned from the course, as well as resources like YouTube and ChatGPT. I built my project using HTML, CSS, and JavaScript. I used the OpenWeatherMap API to fetch the current weather, 24-hour forecast, and 7-day forecast for specific locations. I also used reverse geocoding from OpenWeatherMap to determine the name of the location based on the user's GPS coordinates. I used the Boxicons library to add icons to the search box, such as the search icon and location icon, as well as icons for water and wind. I also used StackOverflow to help me debug.

Lastly, I used AI, specifically ChatGPT, for some help. When I ran into errors I didn't understand, I asked ChatGPT to explain the error and give me advice on how to fix it. For example, if my code wasn't working and I couldn't figure out why, I asked ChatGPT what the problem was, and it would explain it and suggest things to try.

Points Expectation

Based on the features I implemented, I expect to get 19 points, because all the features mentioned work as expected. Since the app is responsive and works on mobile devices (+4 points) and different web browsers like Firefox, Safari, Edge, and Chrome (+3 points), I believe I should get those points as well. Additionally, the app has a clear directory structure, and everything is organized (+2 points). Lastly, I assume this report, which I provided in PDF format, is well written and detailed (+3 points).

Based on these points, I expect a total of 31 points.