Weather App by Bishal Parajuli

Project Description:
This project is focused on web design, with the primary objective of creating a simple, responsive, and visually appealing web page using JavaScript, HTML, and CSS.

Technologies and Tools Used:
- Weather API, Weather Image API
- JavaScript, HTML, and CSS
-AI and open source media(Github and websites)

CSS was employed to design a well-structured, responsive web page that adapts to various screen resolutions. JavaScript was used to fetch and display data from external APIs to the user.

Key Features of the Project:
- Input bar for searching city weather data.
- Checkbox to save cities to a favorite list.
- Option to toggle between temperature units (e.g., Celsius and Fahrenheit).
- Search bar, city highlights, and a 5-day weather forecast.
- The user can enter any city name, and the app retrieves weather data from an API, which is then displayed on the screen along with a chart showing temperature and wind speed details.
- The user can save their favorite cities to a list and access them later by clicking on the city name, or remove them from the list by pressing the "X" button.

Points generated from the course project

Feature	Max points	Achieved
Well written PDF report	3	3
Application is responsive and can be used on both desktop and mobile environment	4	4
Application works on Firefox, Safari, Edge and Chrome	3	3
The application has clear directory structure and everything is organized well	2	2
User can search for locations	1	1
User can use his/her location GPS-coordinates (Geolocation API)	2	2
At least two data/forecast providers are used	3	3
At least three data/forecast providers are used	2	2
User sees the current weather at a specific location	1	1
User sees the forecast for the next 24 hour, hourly based	3	3
User sees the forecast for the next 7 days	3	1.5
All the weather forecast elements uses icons (and	3	3

numbers) for e.g. sunny and cloudy weathers		
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	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	3	3
User has the option to tag some locations as her favorites and thus access them from the favorites menu	2	2
User has an option to switch between celsius and fahrenheit degrees and kelvins	2	2
Total	39	37

Problem encounter during project:
During writing project have encounter some problem with some API problem. Tried to use 24 hour weather forecast Api but there was problem. Later found out that to use that Api we need to pay for that.

AI Declaration: Use of ChatGPT
In this project, I have utilized AI, specifically ChatGPT, to assist with learning and syntax correction. The AI was used solely to generate ideas, correct syntax errors, fix typos in code, and verify the correctness of my own thoughts and logic. The majority of the code and solutions were sourced from open-source media, such as GitHub, YouTube, and coding websites, particularly for tasks like time formatting, string splitting, sorting, and data fetching.

I have documented or indicated where AI was used and the reasons for its use. AI was only consulted when solutions could not be found in open-source resources.

Links:
https://www.color-hex.com/color/f54b4b
https://openweathermap.org/api/geocoding-api
https://stackoverflow.com/questions/51929214/get-current-time-by-city-name
https://code.tutsplus.com/how-to-work-with-time-zones-in-javascript--cms-107284a
https://www.w3schools.com/css/css_background.asp