LONGTERM INTERNSHIP
SMART INTERNZ
(FRONTEND DEVELOPMENT)

WEATHER APP

TEAM

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PROJECT TOPIC

- To create a Weather app using HTML,CSS, and Java script that provides real-time weather information for a specified location using the open weather app API key.
- Users can search for a location by city name and receive detailed weather information, including temperature, humidity, wind speed, and weather conditions.

PROJECT OBJECTIVES:

The main objectives of this project is :

- To create a user interface using HTML and CSS to display weather information.
- To utilize JavaScript to interact with the Open Weather-Map API key and fetch weather data.
- To update the UI with the fetched weather data dynamically.
- To allow users to search for weather information by city name.

ABSTRACT

- The Weather-app is a web application that provides real-time weather information for a specified location. It utilizes the Open Weather-Map API to fetch weather data and displays it in a user-friendly interface.
- The Weather App is a simple project developed by using JavaScript, CSS, and HTML. The user can check the condition of the present-day climate probability and predict whether the day is a cloudy or sunny day.
- Users can search for a location by city name and receive detailed weather information, including temperature, humidity, wind speed, and weather conditions.

BENEFITS OF WEATHER APP

- When we input a name of a city ,we can easily see the current temperature, humidity, pressure and windspeed.
- The weather app enables you make better preparation for the day in relation to giving accurate daily weather forecast.
- The app provides you the details of the weather elements like pressure, temperature, windspeed.
- This helps to track the details of your favorite cities and regions.

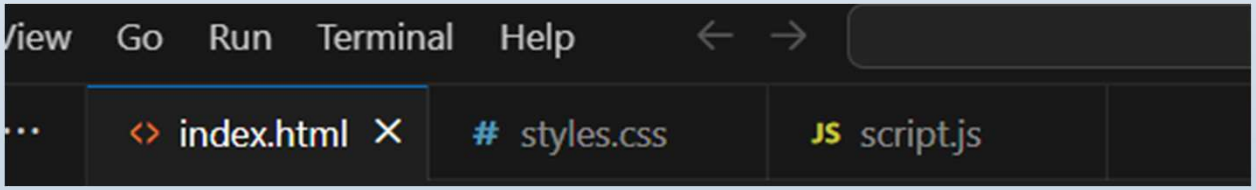
PROJECT STRUCTURE

- Firstly create a new project folder for the Weather App.

  index.html

  style.css

  script.js
- After that set up the basic HTML structure.
- Applying styles to the UI elements using CSS in style.css.
- Design the layout and structure of the user interface using HTML elements and CSS classes.



- In script.js, define a constant variable to store your Open WeatherMap API key.
- Using the Open WeatherMap API, we can get the necessary parameters.
- Call the API key in java script.

API key

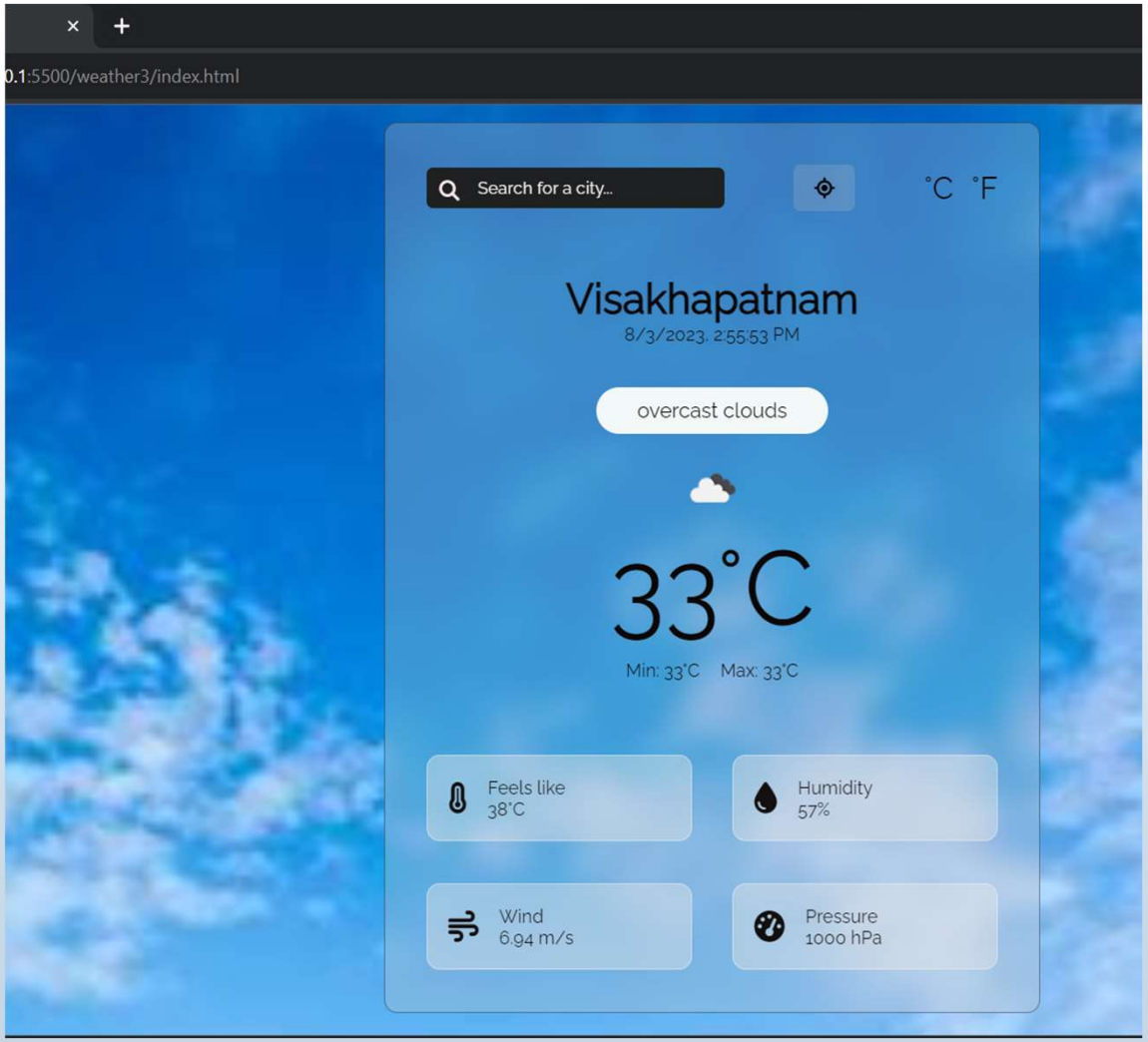
```
const apiKey = "385566fe8e91e8e5572e5c79ac345276";
const baseUrl = "https://api.openweathermap.org/data/2.5/weather";
let units = "metric";

searchForm.addEventListener("submit", (e) => {
  e.preventDefault();
  const city = searchInput.value.trim();
  if (city !== "") {
    fetchWeatherData(city);
  }
  searchInput.value = "";
});
```

- We added an input field and a button to the UI to allow users to enter a city name or zip code.
- added event listener to the button to trigger the weather data fetch function when clicked.
- After that we retrieved the user input from the input field.

OUTPUT

we can the get the output in a webpage.



CONCLUSION

- We are created a Web page using the HTML,CSS, Java script and using the API key.
- Finally we can get the required Weather details of a particular city which we are giving as a user input in that particular web page.
- The data obtained by this can be seen in the web page with the weather details of particular city like temperature, windspeed, humidity.
- This can be very helpful in our daily life application.

THANK YOU