

Introduction

The weather webpage is designed by using HTML, CSS, JavaScript and PHP which shows crucial weather data like temperature, humidity, main weather condition and pressure of the given location. This webpage is easy to use, and it looks user friendly, and it is visually appealing as it contains contrasting colours and fancy fonts.

Strengths

- It is user friendly as it has an easy to navigate layout which allows users to feed data and get the data easily.
- The webpage includes a wide range of data about weather like pressure, humidity, wind speed and air pressure of a particular region.
- This webpage has an aesthetic colour scheme which seems attractive to users and the use of eye soothing fonts keeps the user engaged and makes them feel new and exciting to use.
- I have added a new file in the code called connection.php which connects to MySQL database. It basically updates the data automatically after every two hours using OpenWeatherMap API.

Weaknesses

- As this webpage takes data from another website to show weather details (Weather API), if the main website has encountered an error, then this webpage cannot show the proper data, and it also doesn't work at that time.
- While this webpage presents various data, it lacks more features like upcoming weather predictions and upcoming weather forecasts, which can be helpful to users.
- This webpage is relied on another website to provide real-time data to users, so sometimes it can give misinformation to the user as the main website has got some problems.
- SQL query has been used directly according to the user's input without any prepared statements. Also, Api key has been directly coded in PHP script which makes the key vulnerable and available for anyone with little knowledge of programming.

Conclusion

The weather webpage has an engaging and unique design which provides accurate information about the weather conditions of any place, and it also stores the data in database and automatically updates the data every two hours. But some parts of it can be improved more by using different programming languages.