Assessment Prototype-2
Report on weather application

Name : Tenzing kunsang sherpa

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Abstract:

This report of the prototype 2 it has briefly shown about its strengths and its weakness. In the prototype 2, the data is being fetched through PHP from the Open weather API and after the data is fetched the data that the user searches is stored in the MySQL database and the past weather and current weather data is shown through using the JavaScript. The code of JavaScript, PHP, and MySQL work collaboratively to create a weather information retrieval system and displays it. The JavaScript is responsible for the interaction on the client side whereas the PHP serves as the backend for fetching the real time weather data from the OpenWeatherMap and storing it in a MySQL database.

Introduction:

In the second version of the weather project is a simple HTML/CSS/JAVASCRIPT/MSQL and PHP that retrieves live weather data from OpenWeatherMap API and displays the information on a website by making it a responsive and interactive weather website with the help of CSS and JavaScript. In the second prototype the API is fetched from the WeatherAPI through PHP and displays the past 7 days weather data using JavaScript after storing it on the MYSQL database.

Strength:

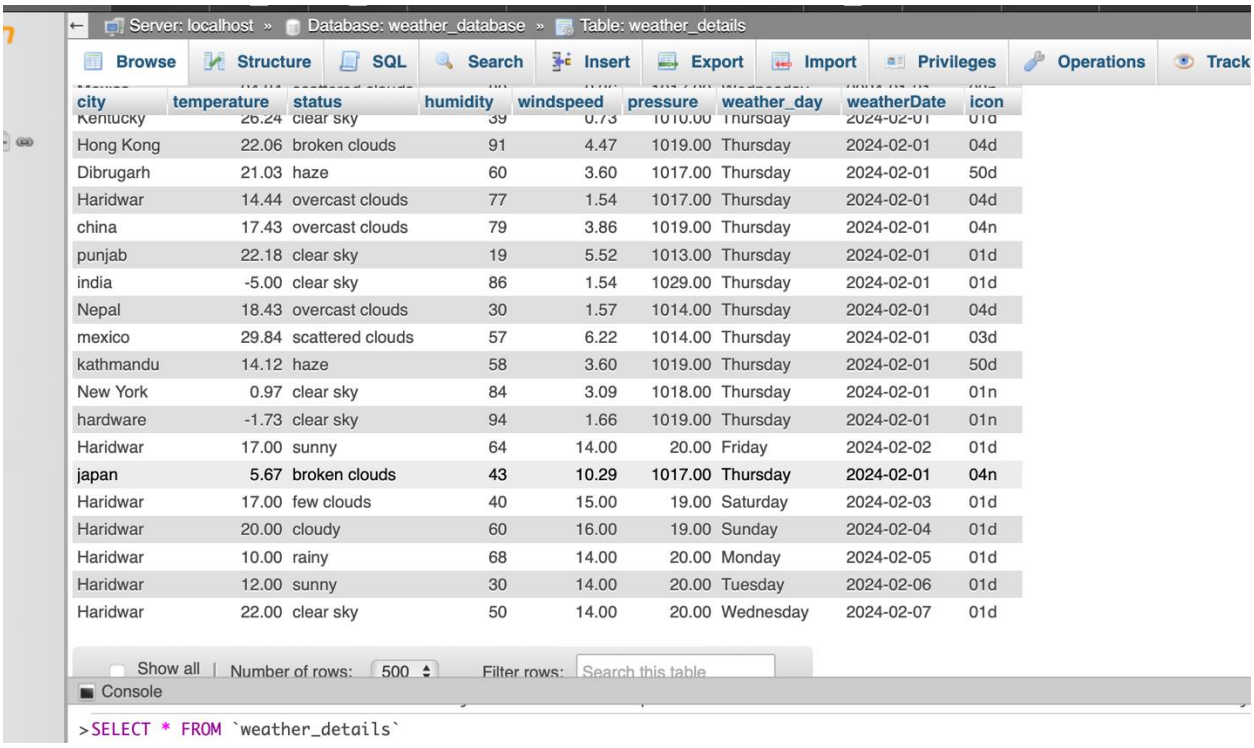
The web application is a user-friendly which has interactive design. The data is fetched from the OpenweatherMap API using async function which ensures the non-blocking execution. Error handling is done while making the web app which helps the user to get the information about the invalid inputs. Data is fetched from the PHP so there is less amount of API keys used and there are less limitations. The weather app doesn't have to fully depend on the weather API code as the new API key is fetched from the PHP. In the weather app the user can easily see the past weather details which helps to user to easily access the past 7 days data and there is a feedback button where the user can give their rating.

Weakness:

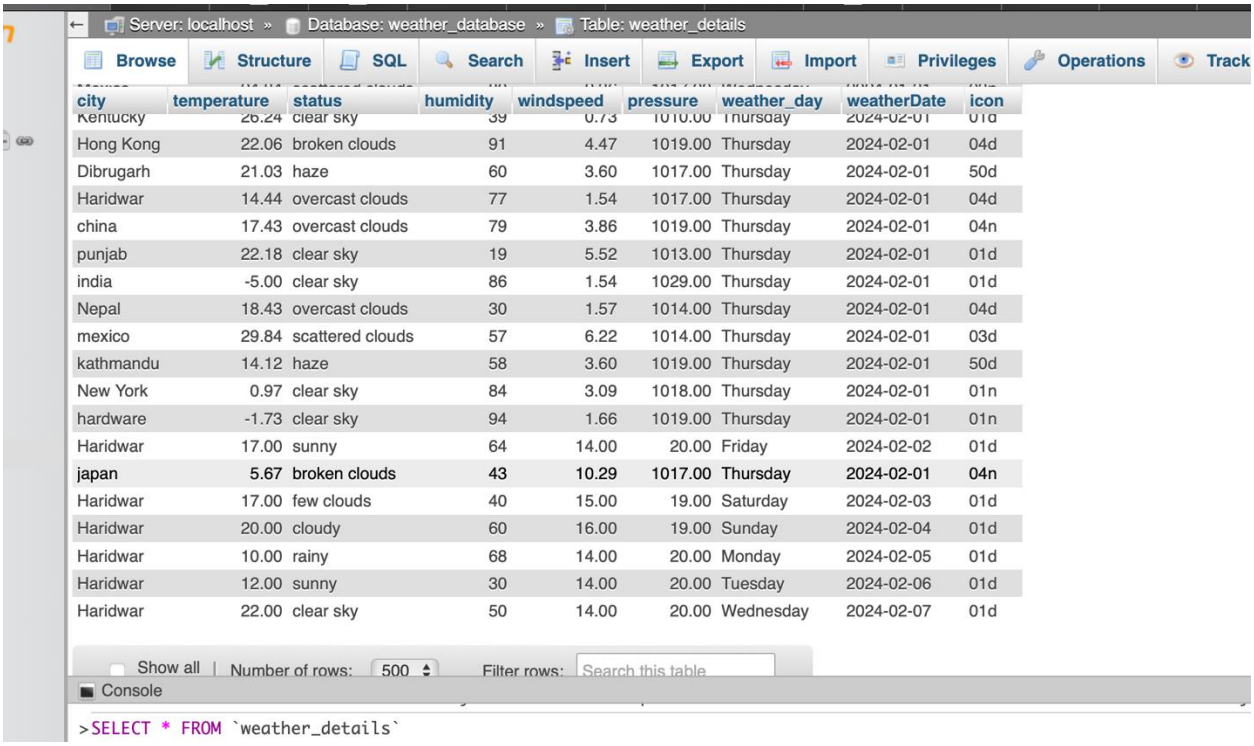
In this prototype though many improvements have been done, there are still some weaknesses. The weather app will not work if there is no internet connection. There is only limited number of past data that can be shown of only limited number of dates. It does not have a responsive Design. As it is fetching through PHP in JavaScript there can be errors in web application. if there is no data coming from the WeatherAPI then the weather will not show any data which in result the weather app will not work. If there is no past data saved in the database, then then past data will not be shown until and unless the user has searched the weather of that day.

Conclusion:

In conclusion, in second prototype the data is saved in the database and the last seven days of the data is shown in the front-end. The weather API is fetched through PHP from OpenweatherMap API and is displayed through JavaScript.



city	temperature	status	humidity	windspeed	pressure	weather_day	weatherDate	icon
Kentucky	26.24	clear sky	39	0.73	1010.00	Thursday	2024-02-01	01d
Hong Kong	22.06	broken clouds	91	4.47	1019.00	Thursday	2024-02-01	04d
Dibrugarh	21.03	haze	60	3.60	1017.00	Thursday	2024-02-01	50d
Haridwar	14.44	overcast clouds	77	1.54	1017.00	Thursday	2024-02-01	04d
china	17.43	overcast clouds	79	3.86	1019.00	Thursday	2024-02-01	04n
punjab	22.18	clear sky	19	5.52	1013.00	Thursday	2024-02-01	01d
india	-5.00	clear sky	86	1.54	1029.00	Thursday	2024-02-01	01d
Nepal	18.43	overcast clouds	30	1.57	1014.00	Thursday	2024-02-01	04d
mexico	29.84	scattered clouds	57	6.22	1014.00	Thursday	2024-02-01	03d
kathmandu	14.12	haze	58	3.60	1019.00	Thursday	2024-02-01	50d
New York	0.97	clear sky	84	3.09	1018.00	Thursday	2024-02-01	01n
hardware	-1.73	clear sky	94	1.66	1019.00	Thursday	2024-02-01	01n
Haridwar	17.00	sunny	64	14.00	20.00	Friday	2024-02-02	01d
japan	5.67	broken clouds	43	10.29	1017.00	Thursday	2024-02-01	04n
Haridwar	17.00	few clouds	40	15.00	19.00	Saturday	2024-02-03	01d
Haridwar	20.00	cloudy	60	16.00	19.00	Sunday	2024-02-04	01d
Haridwar	10.00	rainy	68	14.00	20.00	Monday	2024-02-05	01d
Haridwar	12.00	sunny	30	14.00	20.00	Tuesday	2024-02-06	01d
Haridwar	22.00	clear sky	50	14.00	20.00	Wednesday	2024-02-07	01d



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