A logo for a college

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Internet Software Architecture

Report on Weather Application

# (Prototype 2)

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# **Introduction**

The weather webpage is designed using HTML, CSS, JavaScript , PHP and MySQL. This web app stores past weather data in MySQL using PHP by fetching it from (openweathermap.org) API. The data is then displayed in the front end by fetching it from local storage. The html handles this by opening a separate page displaying cards of previous data.

**Strength**

* The fetched data from the openweathermap.org api is stored in MySQL.
* Only past seven days are displayed so that users don’t get overwhelmed by the information.
* Enhances user experience asynchronously with the backend using JavaScript’s Fetch API is current and effective method. This technique makes the application more dynamic and responsive by allowing data retrieval without reloading the entire page.
* A modular design is demonstrated by the division of (HTML, CSS, JavaScript) and Backend (PHP) components. Because each component of the application can be worked on separately, its modularity makes development easier and allows for more effective maintenance.
* The app uses all the features taught in class such as asynchronous function, making custom function, fetch function, linking PHP to JavaScript.

**Weakness**

* The data is stored in local database and is not hosted online so only the local computer can access the pass data.
* The app is dependent on internet for fetching data.
* We cannot display multiple data of different cities at the same time.