

## Prototype1(Weather app) Report

This weather application uses a web-based API named Open Weather API to obtain the necessary data needed to be displayed by using “. fetch ()”. This prototype shows the weather of a location as we have been given a specific city name to fetch data from according to our student's name and I had to fetch data from Wolverhampton city. In this weather app at first, it shows the city and country location, current temperature in degree Celsius, humidity, wind speed, the temperature range for a day also in degree Celsius, and then pressure.

### Strength of this Prototype

As I have used the Open Weather map which provides separate API keys for each user and I used that API key to obtain the weather of Wolverhampton. So, this prototype provides users the high-quality accurate results. This weather API is highly precise as it can show the calculated information of a country and a specific city of that country with pinpointing longitude and latitude. This prototype also shows the wind speed and humidity of the place. This prototype doesn't just show the data accurately but it also presents the information on the web page suitably with a red and black theme which makes the information easy to read and also it looks more user-friendly. This prototype just converts the raw data from API and displays it in a user-friendly way.

### Weaknesses of this Prototype

There are always weaknesses in an application but as this weather app is a prototype it has a lot of limitations and it could have been better. This prototype just shows the weather of a specific place and the user can't change it to another location than Wolverhampton in my prototype. Also, this prototype does not allow users to interact with it in any way, all they can do is just load the webpage and view the current weather of the pre-selected location. And also, there could be an improvement by adding a feature which helps to refresh the webpage over a certain time interval but this website doesn't do that which is also one of the many drawbacks because this user has to refresh the page themselves to get the accurate current weather. So, these are some of the weaknesses that I would like to point out of this prototype among all the others.