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Assignment Report

Open Weather API implementation using HTML, CSS and JAVA

# Abstract

The objective of this project was to develop a Weather Website. The purpose of implementing this application was to allow users to see and view the weather updates of a particular city.

# Introduction

OpenWeatherMap is an online service that provides weather data, including current weather data, forecasts, and historical data to the developers of web services and mobile applications. The purpose is to use the api from openwathermaps using an ajax request. This data is then parsed into a website to make the data visually appealing. The Website will automatically detect the location of the user and display the weather information for that city. The weather information is displayed in form of 5 days with data of every 3 hrs. You can then hover over the graph to see the temperatures expected on that specific date.

# Key Features

* Tells your location on basis of your current location (Requires Location Permission).
* Shows Information of the current temperature in a current city with the minimum and maximum temperature.
* Shows forecast of 5 upcoming days with a brief weather information.
* Graph denoting minimum and maximum temperatures in the upcoming 5 days.
* Beautiful interface to keep Users engaged with the looks.
* City search to allow the user to search for information regarding any city.

# Code Snippets

Finding weather icon

A screenshot of a cell phone

Description automatically generated

Updating chart data

A close up of a screen

Description automatically generated

Acquiring Data from API

A screenshot of a computer

Description automatically generated

Parsing Data

A screenshot of a cell phone

Description automatically generated

Background Animator

A picture containing green

Description automatically generated

Chart JS

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

# 

Chart Data Creation

A screenshot of a cell phone

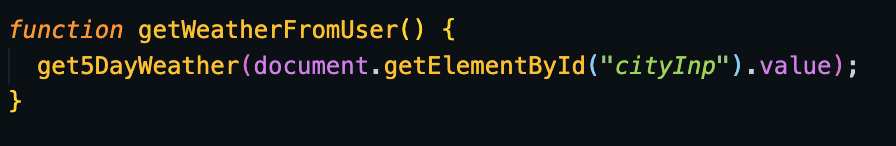
Description automatically generated

Location Access

A picture containing screenshot

Description automatically generated

Button Click



# Screenshots

# A screen shot of a smart phone Description automatically generated

A close up of a sign

Description automatically generated

A screen shot of a computer

Description automatically generated

A close up of a sign

Description automatically generated

A screen shot of a smart phone

Description automatically generated



NOTE: I choose to hide the legends and the scales because of the aesthetics of the graph.

# Conclusion

### OpenWeatherMaps provides amazing API’s which can be used to create useful apps without much effort. This demonstration shows you how easy is creating interactive applications which also provide information.