SAVITRIBAI PHULE PUNE UNIVERSITY

A Web Technology Mini-Project On

Weather Forecast Website

Submitted by

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Under the Support and Guidance of

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In partial fulfilment of

COMPUTER ENGINEERING DEGREE OF

SAVITRIBAI PHULE PUNE UNIVERSITY 2023-2024

CERTIFICATE

This is to certify that the Web Technology Mini Project entitles

Weather Forecast Website

has been successfully completed by,

Name: Vrushali Santosh Kudande

Exam seat number: T190264285

Towards the partial fulfilment of the Third Year of Computer Engineering as awarded by the Savitribai Phule Pune University, at PDEA's College of Engineering, Manjari Bk," Hadapsar, Pune 412307, during the academic year 2023-24.

Prof.J.A.Kalbhor	Dr. M. P. Borawake
Guide	H. O. D.

ACKNOWLEDGEMENT

Apart from the efforts of all team members, the selection of this mini-project report topic depends largely on encouragement and guidance of our teachers. We take this opportunity to express our gratitude to the teachers who have been instrumental in the approval of this project topic we would like to show our greatest appreciation to teachers and other staff members.

We can't think them enough for their tremendous supports and help. They motivated andencouraged us very time while selecting the proper report topic. Without their encouragement and guidance we would not have able to select the proper topic. The contribution and support received from all the team member including Vrushali Kudande is vital. This team spirit shown by allhas made our report successful.

TE COMPUTER

STUDENT NAME: KUDANDE VRUSHALI SANTOSH

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WETHER FORECAST WEBSITE

Combining the power of HTML, CSS, and JavaScript, our weather forecast website delivers a comprehensive suite of features to users. From accessing current weather conditions to planning ahead with hourly and daily forecasts, our platform seamlessly integrates API data for accurate and personalized updates. Users can explore interactive maps to visualize local weather patterns and set up customizable alerts for timely notifications. With a focus on user experience and real-time data, our website empowers users to make informed decisions and stay ahead of changing weather conditions.

Using our weather forecast website is straightforward and user-friendly. Upon landing on the homepage, users are greeted with a clean and intuitive interface designed for ease of navigation.

Location Input: The first step is to enter your location to receive personalized weather updates. Users can either input their location manually or allow the website to access their current location automatically for instant weather information.

Current Weather: Once the location is set, users can instantly view the current weather conditions for their chosen area. This includes temperature, humidity, wind speed, and other relevant data presented in an easy-to-read format.

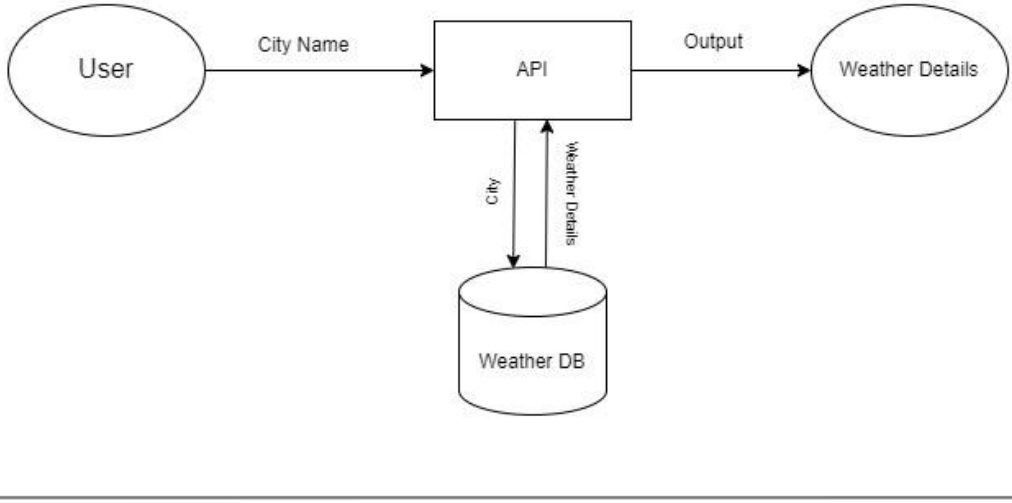
LANGUAGES USED:

1.HTML

2.CSS

3.JAVASCRIPT

ER DIAGRAM:



Data Flow Diagram of Weather App

CODE:

1.index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="card">
<div class="search">
<input type="text" placeholder="Enter City Name">
<button><img src="search.jpg" height="35px"></button>
</div>
<div class="weather">
<img src="weather.png" class="imgIcon" >
<h1 class="temp">22°C</h1>
<h2 class="cityName">Maharashtra</h2>
</div>
<div class="details">
<div class="col">
<img src="humidity0.png" height="100px" >
<div>
<p class="humidity">50% </p>
<p>Humidity</p>
</div>
</div>
<div class="col">
<img src="wind0.png" height="100px">
<div>
<p class="wind">15 km/h </p>
<p>Wind Speed</p>
</div>
</div>
</div>
</div>
<script src="weather.js"></script>
</body>
</html>
```

2.style.css

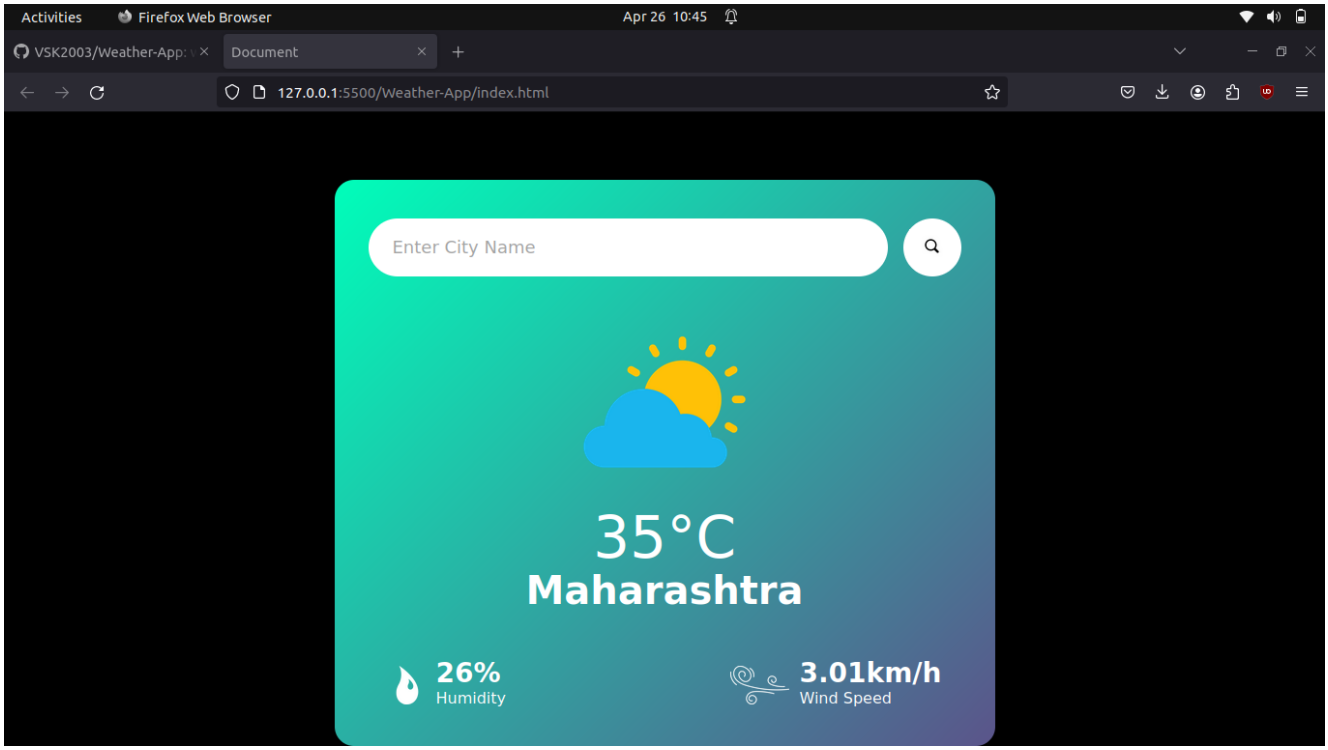
```
*{
margin: 0;
padding: 0;
font-family: "poppins", "sans-serif";
box-sizing: border-box;
}
body{
background-color: black;
}
.card{
width: 90%;
max-width: 50%;
background: linear-gradient(135deg, #00feba , #5b548a);
margin: 100px auto 0;
padding: 40px 35px;
border-radius: 20px;
color: #fff;
text-align: center;
}
.search{
width: 100%;
display: flex;
align-items: center;
justify-content: space-between;
}
.search input{
border: 0;
outline: 0;
padding: 10px 25px;
height: 60px;
border-radius: 30px;
color: #555;
background:white;
flex: 1;
margin-right: 16px;
font-size: 18px;
}
.search button{
border: 0;
outline: 0;
border-radius: 50%;
height: 60px;
width: 60px;
background: white;
cursor: pointer;
}
```

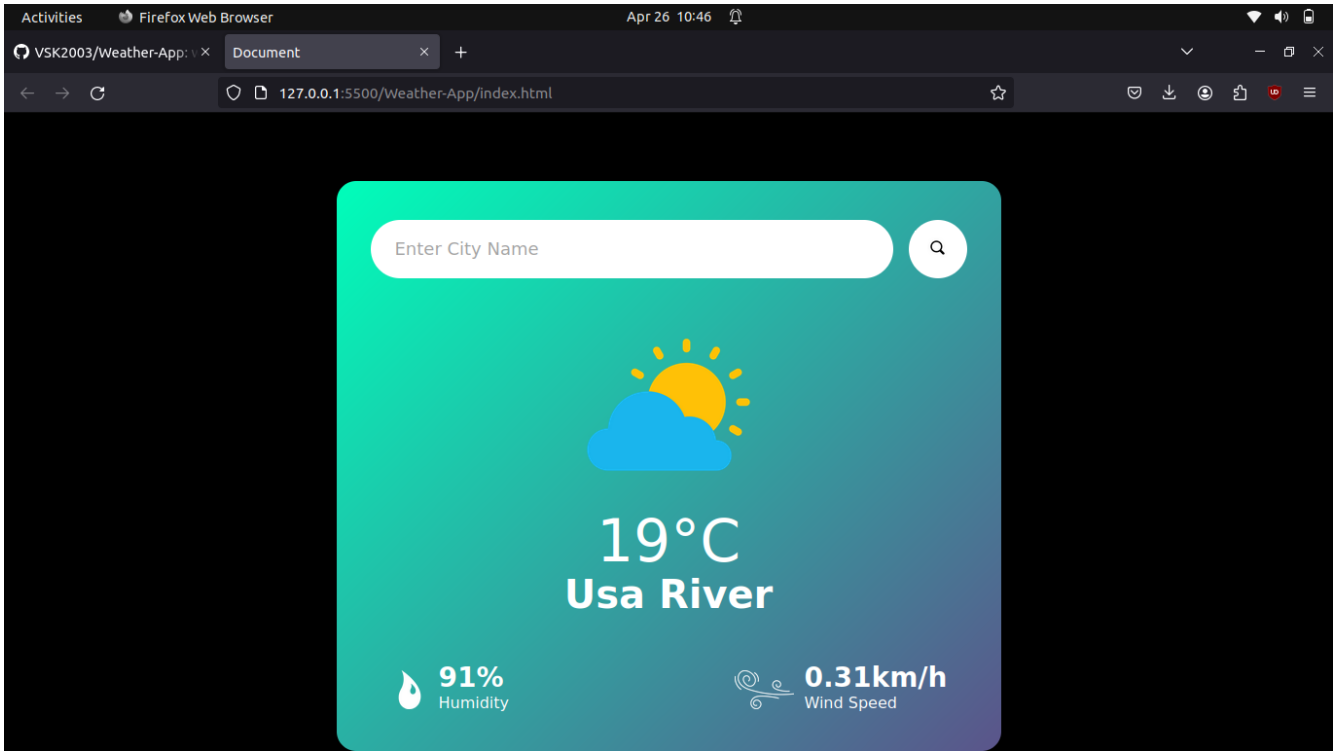
```
.imgIcon{
margin: 30px auto 0;
width: 200px;
}
.weather h1{
font-size: 60px;
font-weight: 500;
}
.weather h2{
font-size: 40px;
margin-top: -5px;
font-weight: 800;
}
.details{
display: flex;
align-items: center;
justify-content: space-between;
margin-top: 50px;
padding: 0 20px;

}
.col{
display: flex;
align-items: center;
text-align: left;
}
.col img{
height: 40px;
margin-right: 10px;
}
.humidity, .wind{
font-size: 28px;
font-weight: 600;
margin-top: -6px;
}
```

3.script.js

```
//
https://api.openweathermap.org/data/2.5/weather?q=japan&appid=d82e6c7cf22b1d7b5667bfa812af5b77
const apiKey = "d82e6c7cf22b1d7b5667bfa812af5b77"
const apiUrl = "https://api.openweathermap.org/data/2.5/weather?units=metric&q=usa"

async function checkWeather(){
const response = await fetch(apiUrl + &appid=${apiKey});
var data= await response.json();
console.log(data);
document.querySelector(".temp").innerHTML= Math.round(data.main.temp) + "°C";
document.querySelector(".cityName").innerHTML= data.name;
document.querySelector(".humidity").innerHTML=data.main.humidity + "%" ;
document.querySelector(".wind").innerHTML=data.wind.speed + "km/h"
}
checkWeather();
```

OUTPUT:


Activities
Firefox Web Browser
Apr 26 10:45
VSK2003/Weather-App:
Document
127.0.0.1:5500/Weather-App/index.html
Enter City Name
35°C
Maharashtra
26%
Humidity
3.01km/h
Wind Speed


Activities
Firefox Web Browser
Apr 26 10:46
VSK2003/Weather-App:
Document
127.0.0.1:5500/Weather-App/index.html
Enter City Name
19°C
Usa River
91%
Humidity
0.31km/h
Wind Speed