PROJECT REPORT

On

"WEATHER JOURNAL APP"

Department of Computer Engineering & Applications

GLA UNIVERSITY

GLA University
Mathura- 281406, INDIA

2022-2023

SUBMITTED BY:-

Ayush Sharma (201500183)
Param Varshney (201500460)
Vaibhav Varshney (201500767)

SUBMITTED TO:-

Mr. Bhanu Kapoor
(Technical Trainer)

Declaration

We hereby declare that the work which is being presented in the Project of "**Weather Journal App",** in partial fulfilment of the requirements for Project viva voce, is an authentic record of our own work carried by the team members under the supervision of our mentor Mr. Bhanu Kapoor. Group Members:

Ayush Sharma (201500183)
Param Varshney (201500460)
Vaibhav Varshney (201500767)

Course: B.Tech (Computer Science and Engineering)

Year: 3rd

Semester: 5th

Supervised By

Mr. Bhanu Kapoor, Technical Trainer,

GLA University, Department of Computer Engineering & Application

Department of computer Engineering and Applications
GLA University, Mathura
17 km. Stone NH#2, Mathura-Delhi Road, P.O. – Chaumuha,
Mathura – 281406

Certificate

This is to certify that the above statements made by the candidates are correct to the best of my/our knowledge and belief.

_____ Supervisor

Mr. Bhanu Kapoor

Technical Trainer

Dept of CEA, GLA University

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_____

Project Mentor

(Mr. Bhanu Kapoor)

Program Coordinator

(Mr ShashShekhar)

About the Project

Weather Report project application is a web based application through which you will able to get all the reports related to weather forecasting of any locations. Its geographical locator which will be received through your browser setting and server configuration will automatically identify the location and able to present its weather details such as temperature, direction of wind, rains, humidity etc. To change the location you will just have to select the options provided below to get its details.

Motivation

The emergence of modern technologies has had profound impacts of the weather, with online journal now an integral part of the knowing weather. The main advantages of weather journal are flexibility and accessibility of the weather. User can access to website to assist themselve longer upcoming weather to the hours of operation of various forecasts and reports, and can be provided anytime and anywhere. It is a well-established, and effective, instructional method. However, there is a need for more empirical research to be directed toward investigating weather experiences with online services, their impact on nature and human well-being, and various places. The purpose of this project is to develop a frontend platform for weather journaling

Requirements

a). Software Requirements:

- Languages/Technologies Used: HTML, CSS, JavaScript
- IDE Used: Vs code
- Web Browser: Google Chrome

- GitHub: GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere. GitHub Repository: A GitHub repository can be used to store a development project. It can contain folders and any type of files (HTML, CSS, JavaScript, Documents, Data, Images). A GitHub repository should also include a license file and a README file about the project. A GitHub repository can also be used to store ideas, or any resources that you want to share.

b). Hardware Requirements:

- Processor Required: Intel i3
- Operating System: Windows 10
- RAM: 4GB
- Hardware Devices: Computer System
- Hard Disk: 256GB

Acknowledgement

We thank the almighty for giving us the courage and perseverance in completing the project. This project itself is an acknowledgement for all those people who have given us their heartfelt co-operation in making this project a grand success.

We extend our sincere thanks to Mr. Bhanu Kapoor, Technical Trainer at “GLA University, Mathura” for providing his valuable guidance at every stage of this project work. We are profoundly grateful towards the unmatched services rendered by him. And last but not least, we would like to express our deep sense of gratitude and earnest thanks giving to our dear parents for their moral support and heartfelt cooperation in doing the project.

Weather Journal App

Abstract

Weather is the state of the atmosphere at a given place and time in regards to heat, cloudiness, dryness, sunshine, wind, and rain. Of all the geophysical phenomena weather is the most significant one that influences us. Weather can vary greatly and largely depends on climate, seasons and various other factors. The chief goal of this work is to get the weather forecast of any city throughout the world through an application. This paper aims at creating a web application using javascript framework.

Contents

Introduction

The purpose of this project is to develop a front-end application for weather. It allows for flexible data format and deliver of its data so that each analysis application can receive only the information it needs and in the format required.

The project is divided into 2 modules – user's entries and report coming. The roles of the modules are as follows:

- **Student :**

  The user enter various countries available. The user takes a report on a forecast. There might be countries and cities, which has various weather modules. Each entry has multiple choices with only one correct option. The entry will not be time bound. User can see the forecast schedule. New Users will not be required to register themselves in the system. All users will be able to modify their entries. User views previous reports. Users can go to the Generate and browse through city name and pin code and find desired report.

- **Course Expert :**

  Creating report for the user**,** entry will reside in the generate area if either it is saved while creating/modifying or it has been rejected by admin. Modifying entries, deleting the entries browse through the generate link.

Technologies Used

HTML

HTML stands for **Hyper Text Markup Language**, which is the most widely used language on Web to develop web pages. **HTML** was created by Berners-Lee in late 1991 but "HTML 2.0" was the first standard HTML specification which was published in 1995. HTML 4.01 was a major version of HTML and it was published in late 1999. Though HTML 4.01 version is widely used but currently we are having HTML-5 version which is an extension to HTML 4.01, and this version was published in 2012.

It is used for:

- Web development (server-side),
- Software development.

Here are some of the most common uses for HTML:

- **Web pages development** - HTML is used to create pages which are rendered over the web. Almost every page of web is having html tags in it to render its details in browser.

- **Internet Navigation** - HTML provides tags which are used to navigate from one page to another and is heavily used in internet navigation.

- **Responsive UI** - HTML pages now-a-days works well on all platform, mobile, tabs, desktop or laptops owing to responsive design strategy.

- **Offline support** HTML pages once loaded can be made available offline on the machine without any need of internet.

- **Game development**- HTML5 has native support for rich experience and is now useful in gaming developent arena as well.

CSS

CSS is used to control the style of a web document in a simple and easy way.

CSS is the acronym for **"Cascading Style Sheet"**. This tutorial covers both the versions CSS1,CSS2 and CSS3, and gives a complete understanding of CSS, starting from its basics to advanced concepts.

Applications of CSS

- **CSS saves time** - You can write CSS once and then reuse same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many Web pages as you want.

- **Pages load faster** - If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all the occurrences of that tag. So less code means faster download times.

- **Easy maintenance** - To make a global change, simply change the style, and all elements in all the web pages will be updated automatically.

- **Superior styles to HTML** - CSS has a much wider array of attributes than HTML, so you can give a far better look to your HTML page in comparison to HTML attributes.

- **Multiple Device Compatibility** - Style sheets allow content to be optimized for more than one type of device. By using the same HTML document, different versions of a website can be presented for handheld devices such as PDAs and cell phones or for printing.

- **Global web standards** - Now HTML attributes are being deprecated and it is being recommended to use CSS. So its a good idea to start using CSS in all the HTML pages to make them compatible to future browsers.

JavaScript:-

JavaScript is a lightweight, interpreted **programming** language. It is designed for creating network-centric applications. It is complimentary to and integrated with Java. **JavaScript** is very easy to implement because it is integrated with HTML. It is open and cross-platform.

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JavaScript is the most popular **programming language** in the world and that makes it a programmer's great choice. Once you learnt Javascript, it helps you developing great front-end as

well as back-end softwares using different Javascript based frameworks like jQuery, Node.JS etc

Applications of Javascript Programming:-

- **Client side validation** - This is really important to verify any user input before submitting it to the server and Javascript plays an important role in validting those inputs at front-end itself.

- **Manipulating HTML Pages** - Javascript helps in manipulating HTML page on the fly. This helps in adding and deleting any HTML tag very easily using javascript and modify your HTML to change its look and feel based on different devices and requirements.

- **User Notifications** - You can use Javascript to raise dynamic pop-ups on the webpages to give different types of notifications to your website visitors.

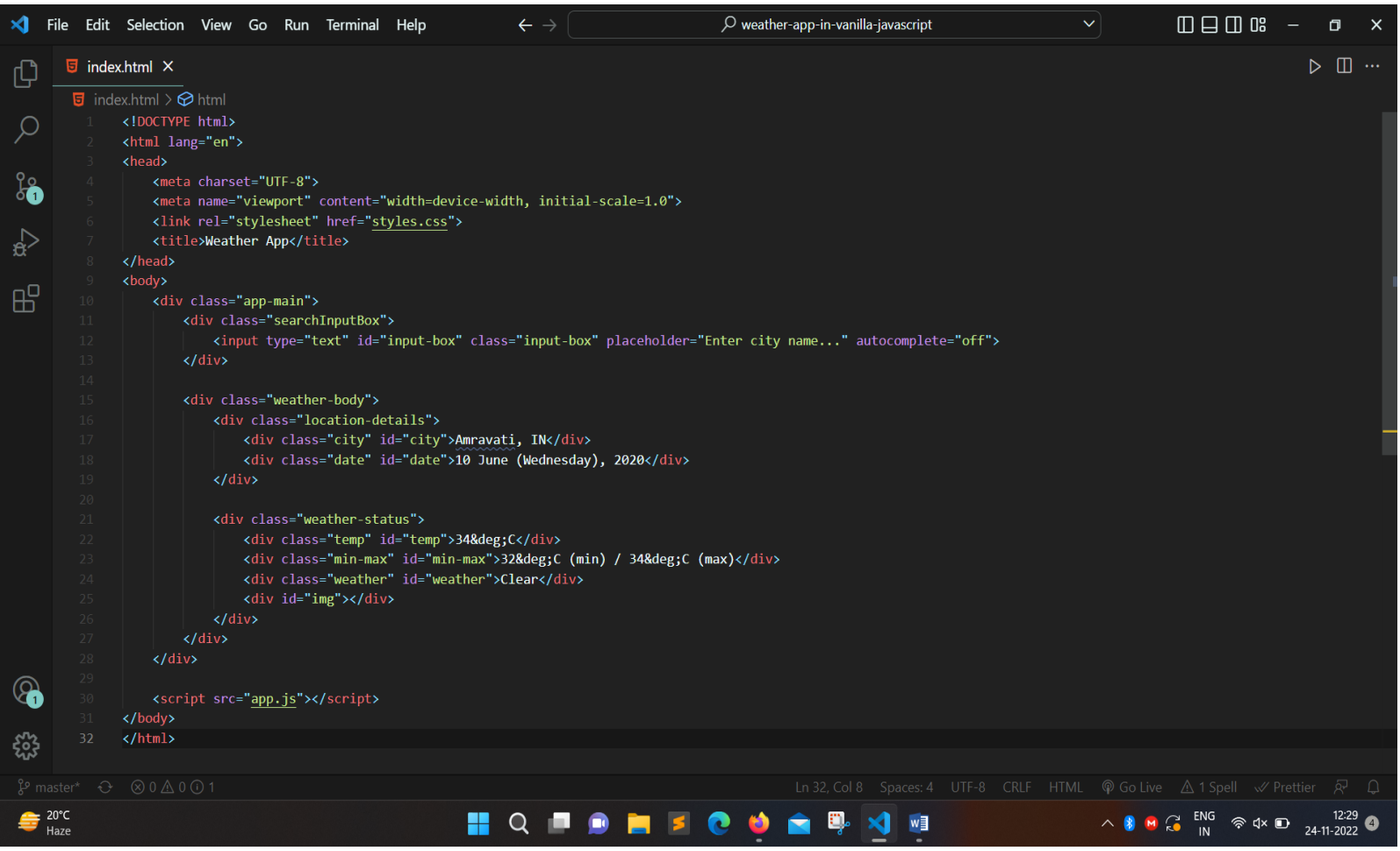
- **Back-end Data Loading** - Javascript provides Ajax library which helps in loading back-end data while you are doing some other processing. This really gives an amazing experience to your website visitors.

- **Presentations** - JavaScript also provides the facility of creating presentations which gives website look and feel. JavaScript provides RevealJS and BespokeJS libraries to build a web-based slide presentations.

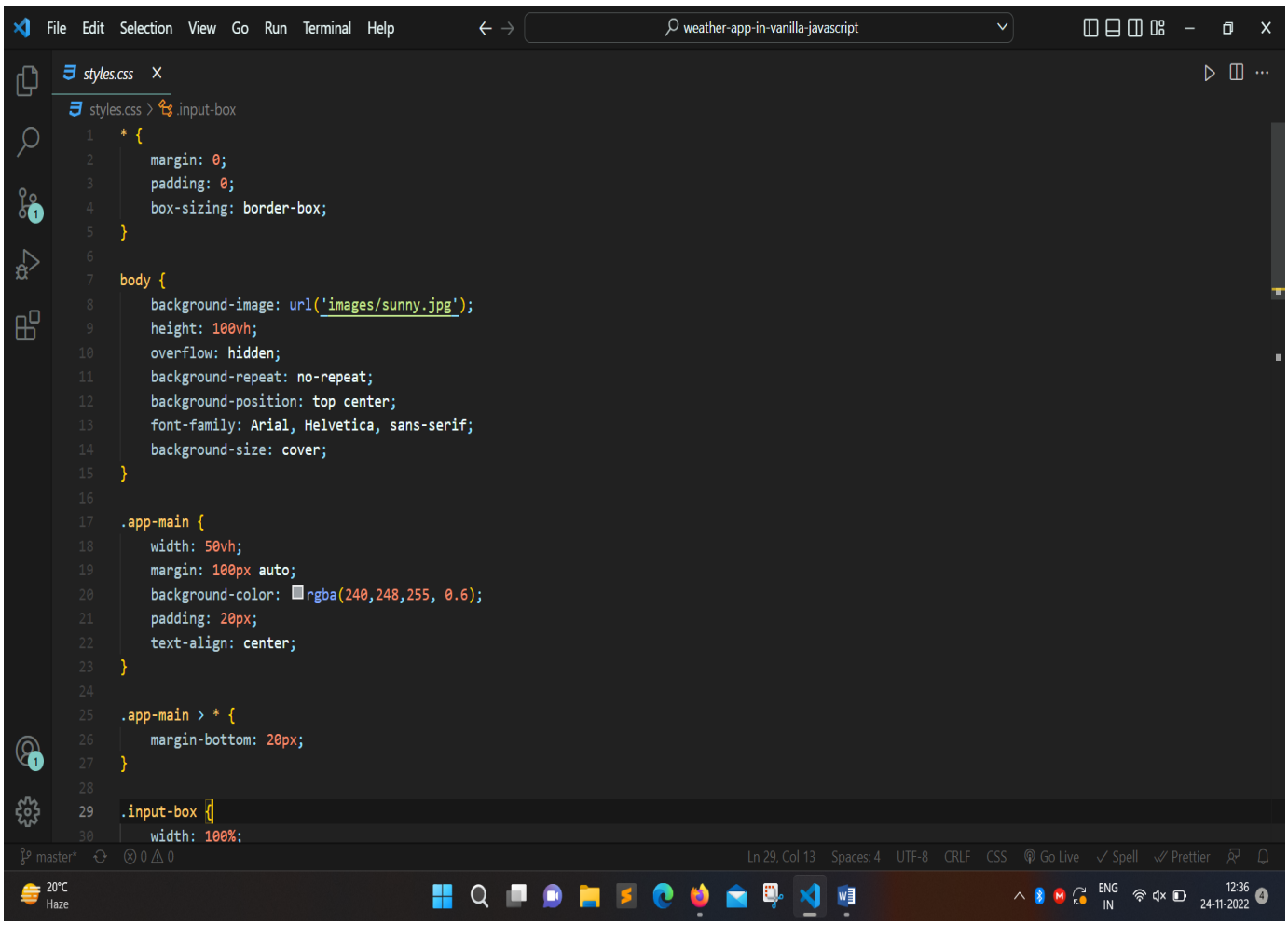
- **Server Applications** - Node JS is built on Chrome's Javascript runtime for building fast and scalable network applications. This is an event based library which helps in developing very sophisticated server applications including Web Servers.

List of Figures

1. HTML Code:-



2. CSS Code


File Edit Selection View Go Run Terminal Help
weather-app-in-vanilla-javascript
styles.css
styles.css > .input-box
* {
margin: 0;
padding: 0;
box-sizing: border-box;
}
body {
background-image: url('images/sunny.jpg');
height: 100vh;
overflow: hidden;
background-repeat: no-repeat;
background-position: top center;
font-family: Arial, Helvetica, sans-serif;
background-size: cover;
}
.app-main {
width: 50vh;
margin: 100px auto;
background-color: rgba(240,248,255, 0.6);
padding: 20px;
text-align: center;
}
.app-main > * {
margin-bottom: 20px;
}
.input-box {
width: 100%;
master*
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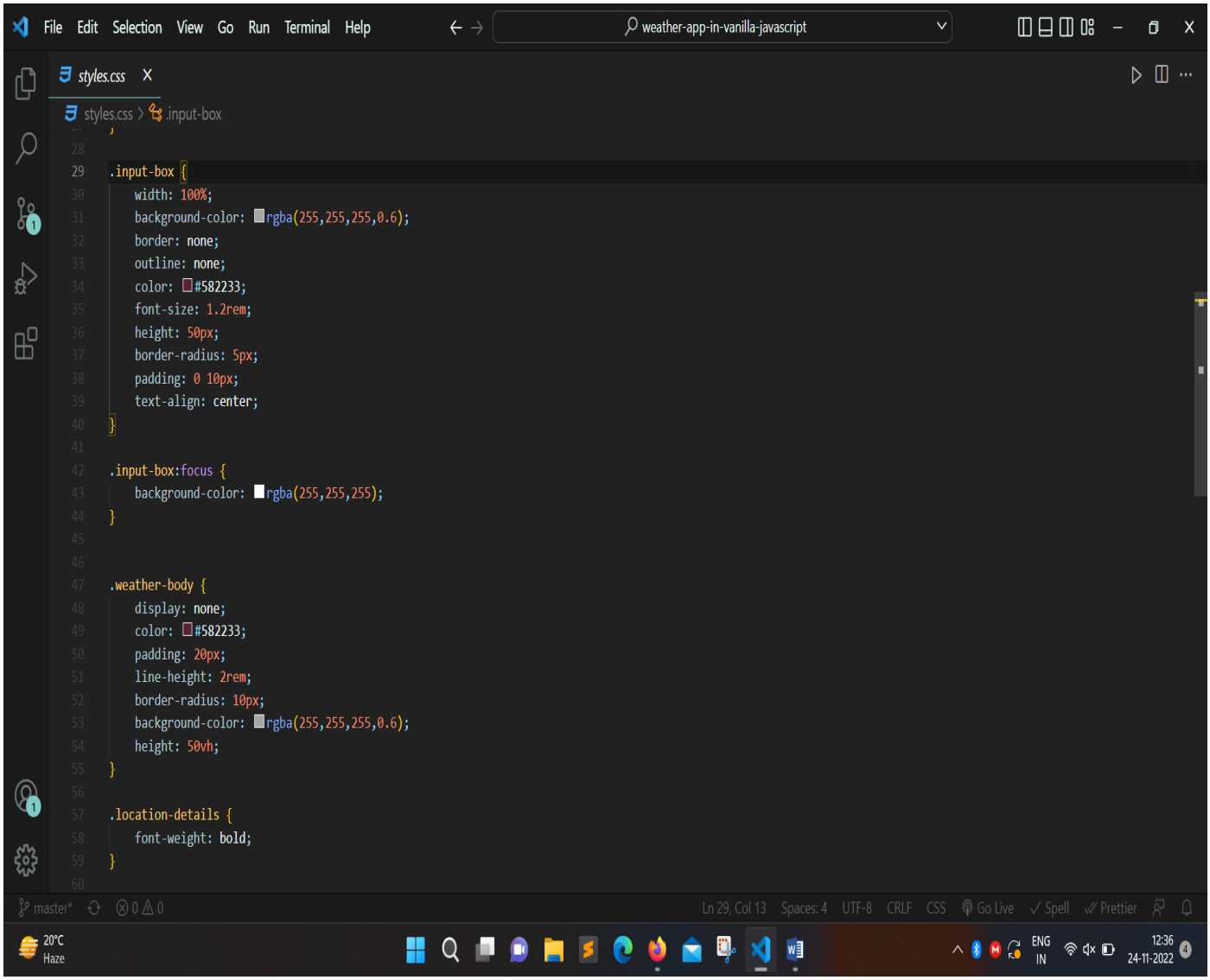
24-11-2022

CSS Code


File Edit Selection View Go Run Terminal Help
weather-app-in-vanilla-javascript
styles.css
styles.css > .input-box
.input-box {
width: 100%;
background-color: rgba(255,255,255,0.6);
border: none;
outline: none;
color: #582233;
font-size: 1.2rem;
height: 50px;
border-radius: 5px;
padding: 0 10px;
text-align: center;
}
.input-box:focus {
background-color: rgba(255,255,255);
}
.weather-body {
display: none;
color: #582233;
padding: 20px;
line-height: 2rem;
border-radius: 10px;
background-color: rgba(255,255,255,0.6);
height: 50vh;
}
.location-details {
font-weight: bold;
}
master*
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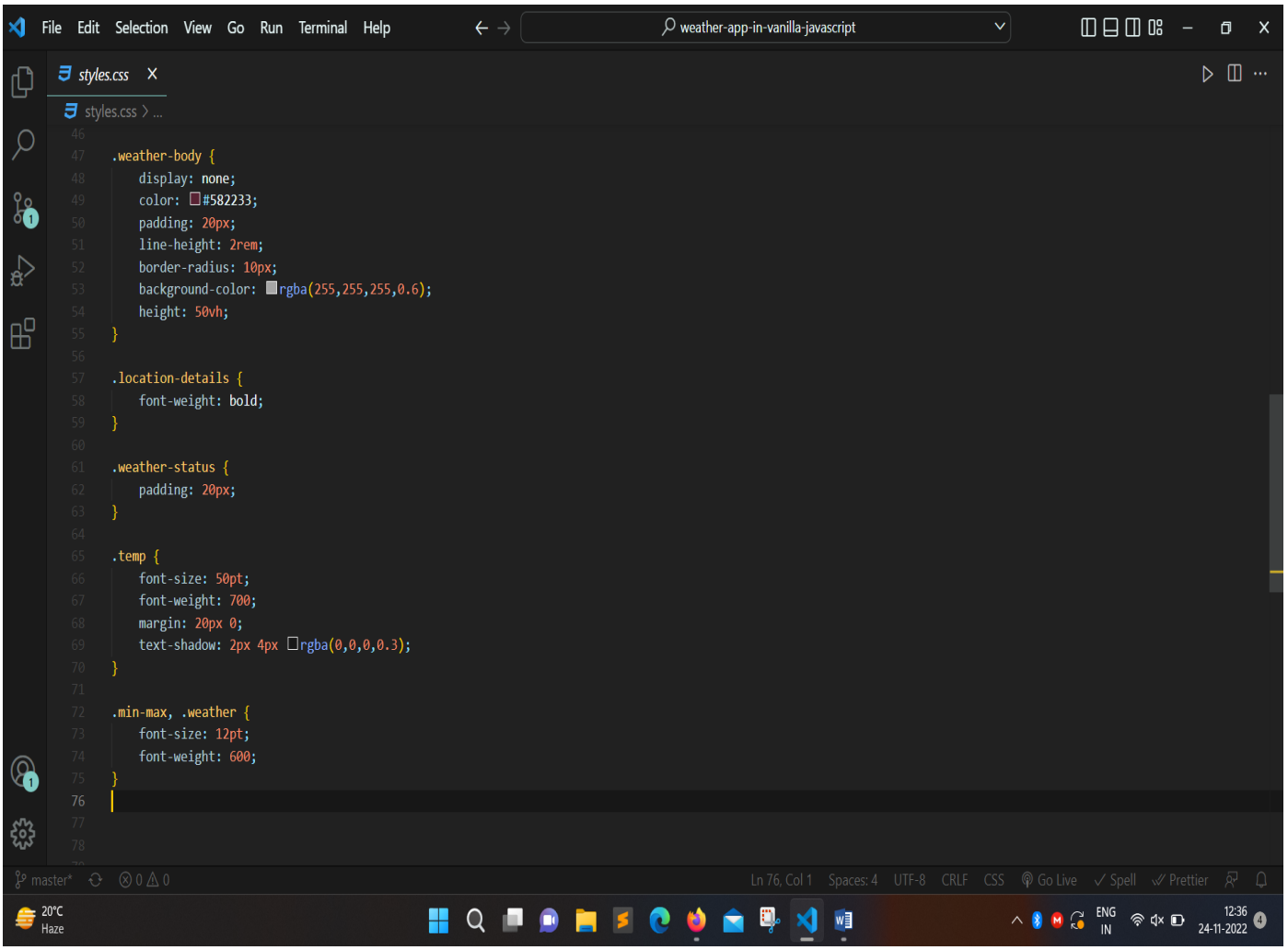
CSS code


File Edit Selection View Go Run Terminal Help
weather-app-in-vanilla-javascript
styles.css
styles.css > ...
.weather-body {
display: none;
color: #582233;
padding: 20px;
line-height: 2rem;
border-radius: 10px;
background-color: rgba(255,255,255,0.6);
height: 50vh;
}
.location-details {
font-weight: bold;
}
.weather-status {
padding: 20px;
}
.temp {
font-size: 50pt;
font-weight: 700;
margin: 20px 0;
text-shadow: 2px 4px rgba(0,0,0,0.3);
}
.min-max, .weather {
font-size: 12pt;
font-weight: 600;
}
master*
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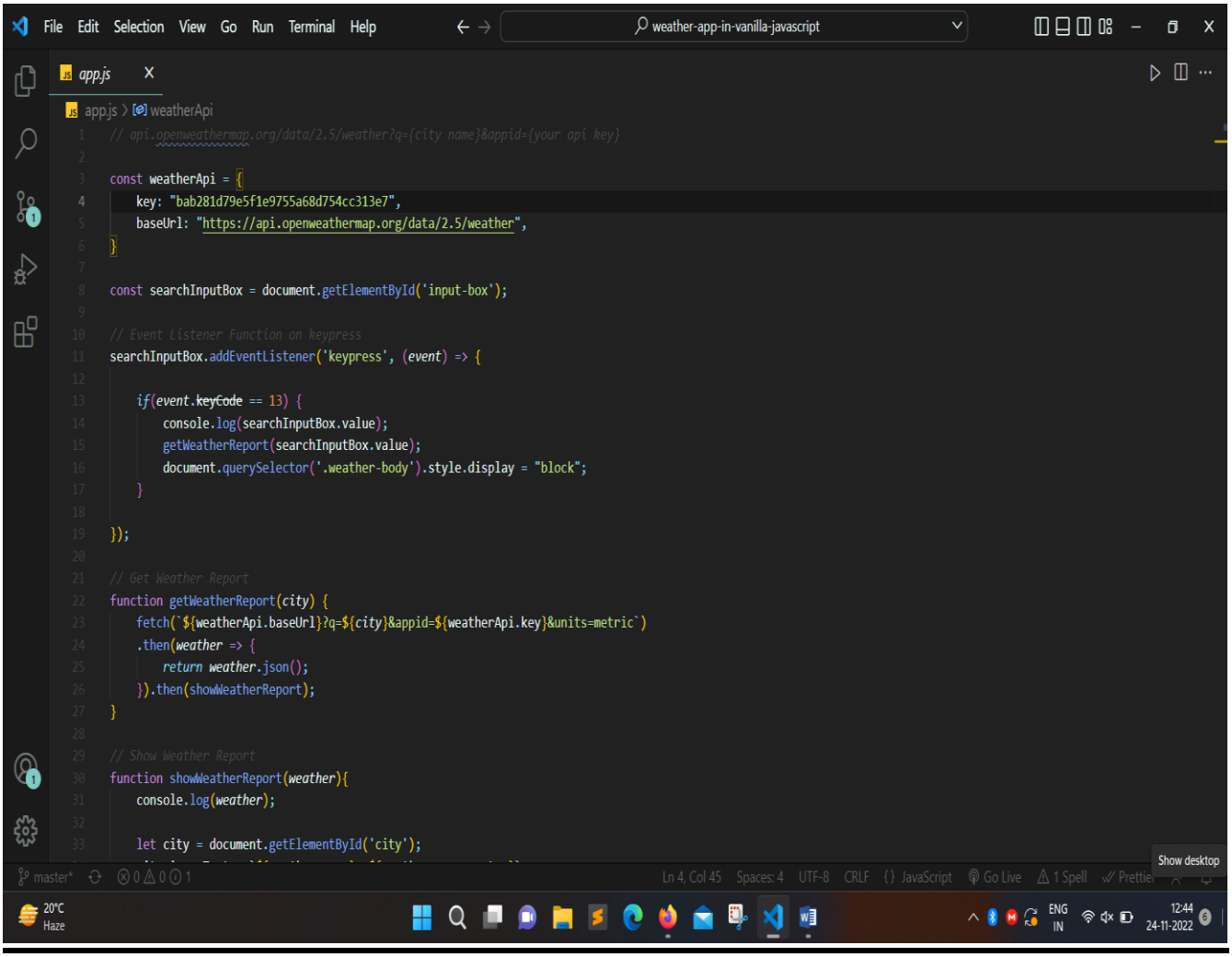
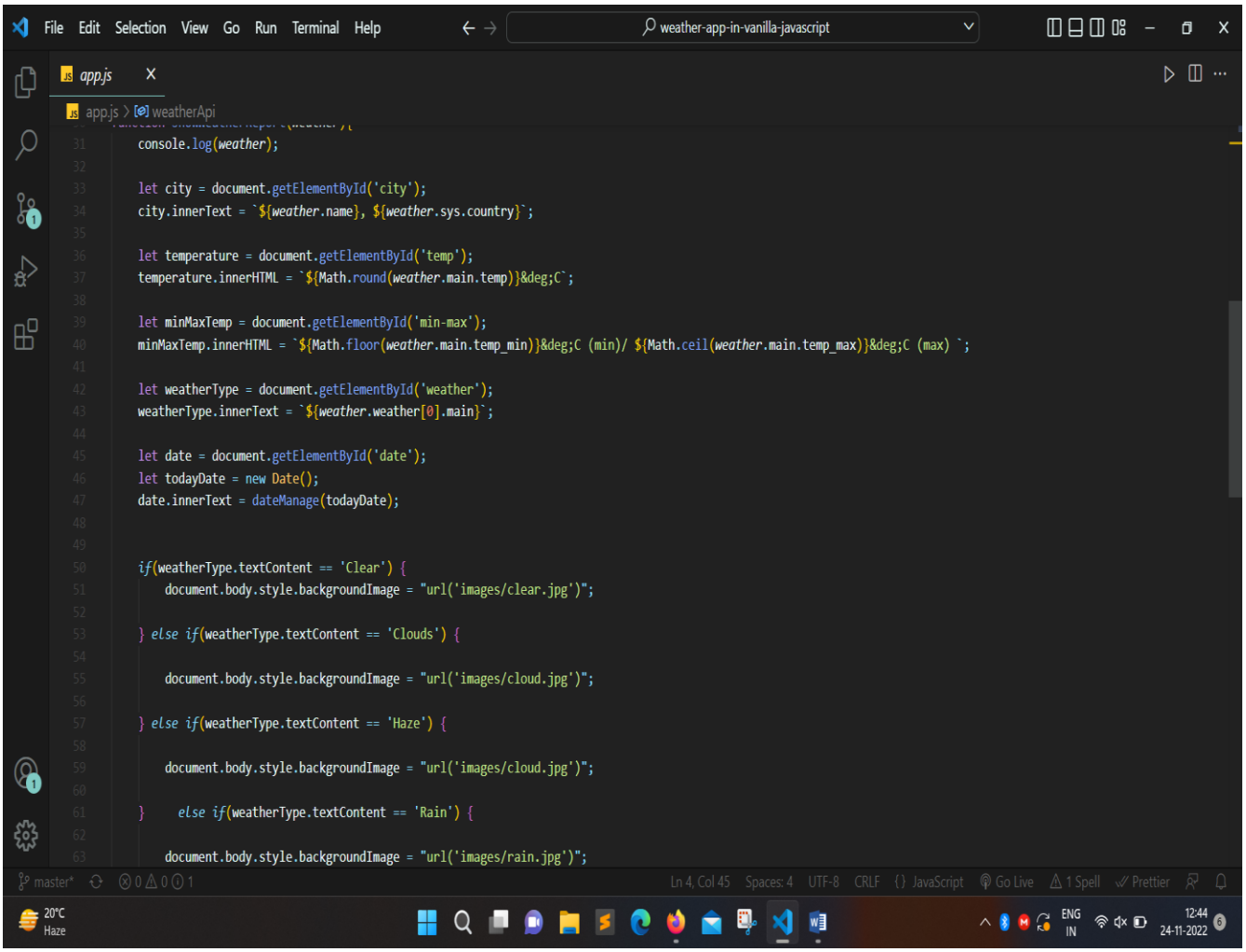
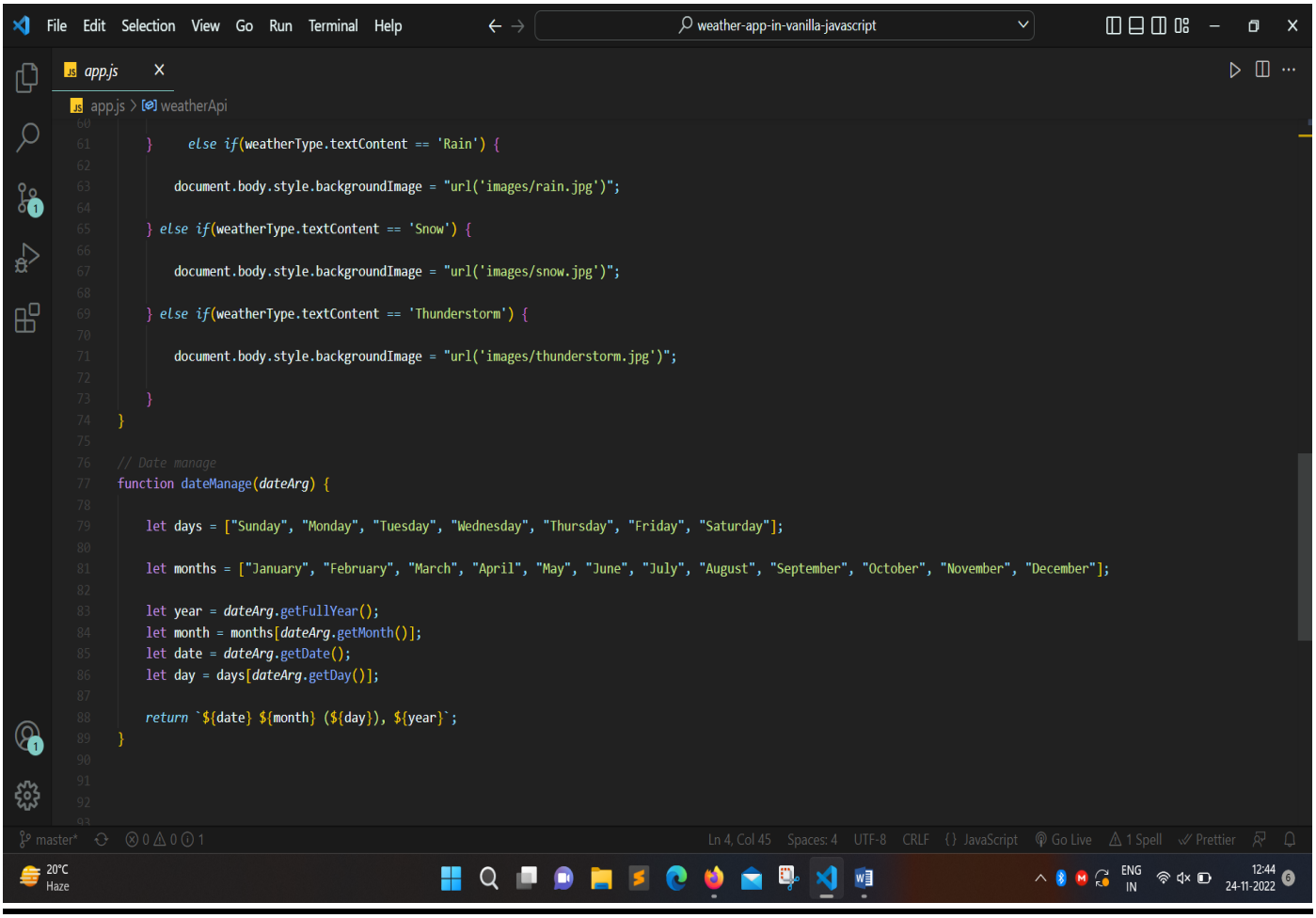
3- JavaScript Code



JavaScript Code



JavaScript Code



Result


Weather App
127.0.0.1:5502/index.html
Getting Started
LeetCode
Github
Practice
Mail
450 Questions
CodeStudio
Typing
Questions
newspaper
Classes
SDE Sheet
First-HTML-Project/in...
Mathura
Mathura, IN
24 November (Thursday), 2022
25°C
25°C (min)/ 26°C (max)
Clear
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IN
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24-11-2022

Conclusion

We have completed our project within time limit with the coordination of our team members under the supervision of our mentor Mr. Bhanu Kapoor.

Bibliography

www.google.com

www.geeksforgeeks.org

www.youtube.com