WEATHER APPLICATION MANAGEMENT SYSTEM

A PROJECT REPORT

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COIMBATORE

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BONAFIDE CERTIFICATE

Certified that this project report titled "**WEATHER APPLICATION MANAGEMENT SYSTEM**" is the Bonafide work of

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Who carried out the project phases-1 report under my supervision. Certified futher, that to the best of my knowledge the work reported here in does not form part of any other report or a dissertation or, the basis of which a degree or a award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE	**SIGNATURE**
Mr.M.VIJAYAKUMAR M.E,	**Mr.K.MADESWARAN M.E**
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SUBMITTED FOR THE PROJECT VIVA VOICE HELD ON_____

.....	.....
Internal Examiner	**External Examiner**

ACKNOWLEDGEMENT

Success always strikes the door of people who work hard with dedication and benediction of elders in addition to gentle pary of combined efforts of the dedication and aspiring individuals. I wish to publically recognize and pay our gratitude to them.

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ABSTRACT

Predict the conditions of the atmosphere for a given city. People have attempted to predict the weather informally for millennia and formally since the 19th century. Weather forecasts are made by collecting quantitative data about the current state of the atmosphere, land, and ocean .

Working of weather Application :

There are two different tasks at the core of a weather finder:

1 . User request analysis

2 . Returning the response

User Request Analysis:

This is the first task that a weather app performs. It analyses the user's request to identify the user intent and to extract relevant entities.

Returning the Response:

Return the response to the users position like Latitude and Longitude. While fetching weather API it shows the current Temperature, Pressure, Wind speed and Humidity. Voice recognition implemented in this Application users can easily and immediately find the current weather condition.

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LIST OF FIGURES

LIST OF ABBREVATIONS

CDN	CONTENT DELIVERY NETWORKS
UML	UNIFIED MODELING LANGUAGE
UI	USER INTERFACE
HTML	HYPERTEXT MARKUP LANGUAGE
CSS	CASCADING STYLE SHEETS
JS	JAVA SCRIPT
PX	PIXELS

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE PROJECT

The main purpose of such apps is **weather forecasting** and there are a few ways to do it: Weather Conditions Data Though it may not be the most accurate way to collect weather data, still many countries use it. The idea here is to do the forecasting based on the continuous statistical data of two-three decades.

A second goal is to evaluate their performance with regard to speed and location accuracy. These properties were chosen because they have the greatest impact on the implementation effort. A final goal has been to design and implement an algorithm. This should be done in high-level language JavaScript.

1.2 OBJECTIVE

The main objective of this application use **voice recognition** for easily to search by city or country name. Weather report 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, wind speed, rains, humidity etc. **Dark mode** is the additional functionality to impress the users

Its weather watch gadgets in animated form will able to notify about weather for particular date and time also. So, with one weather solutions, its users can get weather reports by getting information directly weather forecasting server **(Open Weather Map API)** via JavaScript coding. Its calculations and details are so accurate, that you can even check and match it from news channel. Its user's friendly tools are so simple to use, that even a child can handle it and get information on particular geographical area.

1.3 MOTIVATION

Sign language is learned by deaf and dumb, and usually it is not known to Normal people, so it because a challenge for communication between a normal and hearing-impaired person.

Its strike this system mind to bridge the between hearing impaired and normal people to make the communication easier. Takes an input via voice recognition so disabled person gives input to the form Text or voice.

CHAPTER 2

SYSTEM ANALYSIS

2.1 EXISTING SYSTEM

Previously built weather report web-based application was compatible with system and every time users start this application; they have to set their default location to get weather reports on it. Due to complex coding, system responding time was high and require more memory to get start up. The concept of graphics for geographical region was not implemented in older version. Dynamic concept was not implemented under the existing system; thus, theme and colour of web page was not changing as per the weather report.

2.1.1 DRAWBACKS

- Time consuming and when the number of training data increase, the time needed for classification are increased too.

- The performance of voice recognition algorithm increases time delay when invoke voice recognition. The time distance greater than one minutes between the user click the microphone button.

2.2 PROPOSED SYSTEM

- Under web-based weather report application, some exciting features has been added such as managing and handling exception error directly by the system.
- which will be not visible by the user to make it bug free. Multiple cities enter user by which they can even select different weather channel as per their requirement and interest in it.
- **addEventListener()** function will able to notify about the weather condition via the notification feature in this application.
- This application uses **sweet alert Library** which is used to show modern UI alerts instead default as same as today's modern applications and touch interactivity icons.
- For managing user's data in browser **Local storage** frequently.

- **Voice recognition** make easier to search location no need to enter location via the input field.
- **Web share** API used to share the web application to your friends.
- This application uses modern high-quality images and icons with minimum KB size so the page doesn't take long time to wake up.
- Immediate **Offline Detection** used to notify user when comes and out of internet connection frequently.
- Style sheets applied for mobile and desktop screen pixel sizes for the responsive

2.2.1 ADVANTAGES

- Time Consumption is Less
- High Performance Accuracy

CHAPTER 3

SYSTEM SPECIFICATIONS

3.1 HARDWARE REQUIREMENTS

- Processor – Pentium IV Speed - 1.1Ghz
- RAM - 256 MB (min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- USB Cable – For debugging the Application

3.2 SOFTWARE REQUIREMENTS

3.2.1 FRONT END

- Operating System: Windows or Linux
- Visual studio code IDE
- Library: sweet alert.js

3.2.2 BACK END

- XAMPP server
- PHP
- MySQL

3.3 FUNCTIONAL REQUIREMENTS

- A functional requirement defines a function of a software system or its component. A function is described as a set of inputs, behaviour, and outputs. Our system requires minimum one system to achieve this concept. Internet connection need to use the app.

CHAPTER 4

SYSTEM DESIGN

4.1 ARCHITECTURE DIAGRAM

An architecture diagram is a diagram that depicts a system that people use to abstract the software system's overall outline and build constraints, relations, and boundaries between components. It provides a complete view of the physical deployment of the evolution roadmap of the software system

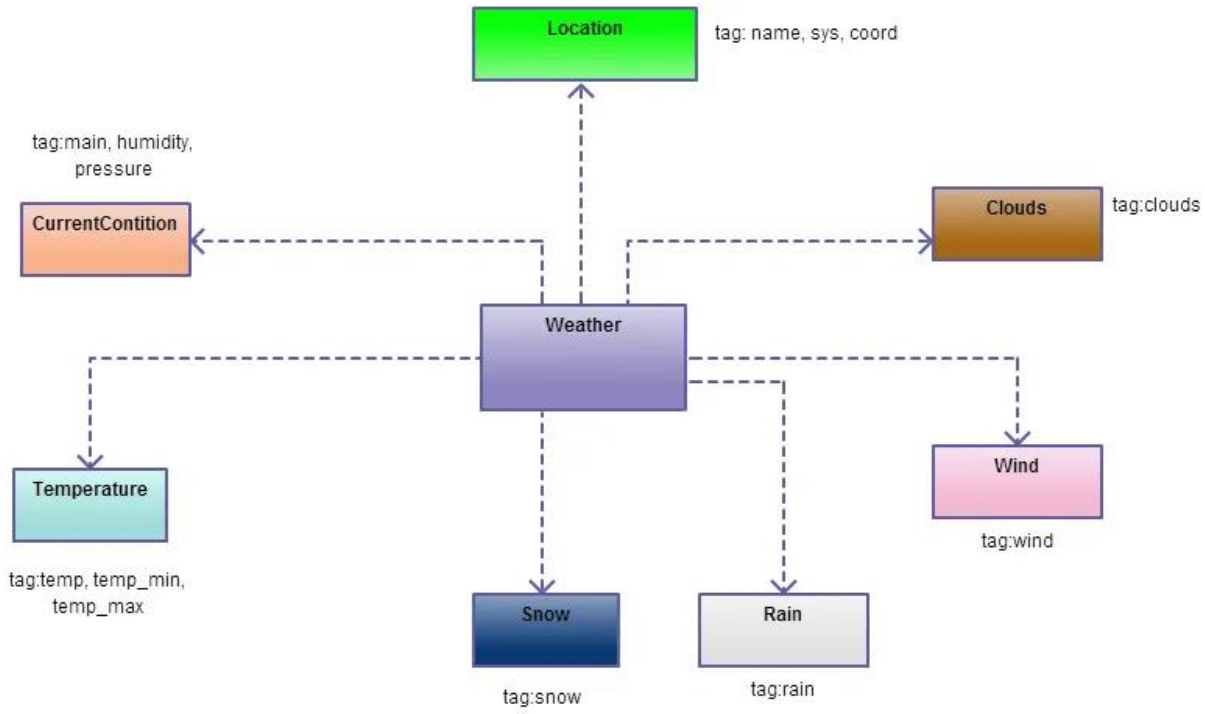


FIGURE 4.1 ARCHITECTURE

4.2 UML DIAGRAM

The Unified Modelling Language is a graphical language for visualizing, specifying constructing and documenting of software intensive systems. The various UML diagrams used here are Activity Diagram and Sequence Diagram.

ADVANTAGES

1. To represent complete systems (instead of only the software portion) using object-oriented concepts.

2. To establish an explicit coupling between concepts and executable code.

3. To create a modelling language usable by both humans and machines

4.2.1 USE CASE DIAGRAM

A use case diagram is a dynamic or behaviour diagram in UML. Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform. It is a graphical depiction of a user's possible interactions with a system.

4.2.1 DATA FLOW DIAGRAM

Data flow diagrams are one of the three essential perspectives of the structured-systems analysis and design method. The sponsor of a project and the end users will need to be briefed and consulted throughout all stages of a system's evolution. With a data flow diagram, users are able to visualize how the system will operate, what the system will accomplish, and how the system will be implemented. The old system's dataflow diagrams can be drawn up and compared with the new system's data flow diagrams to draw comparisons to implement a more efficient system.

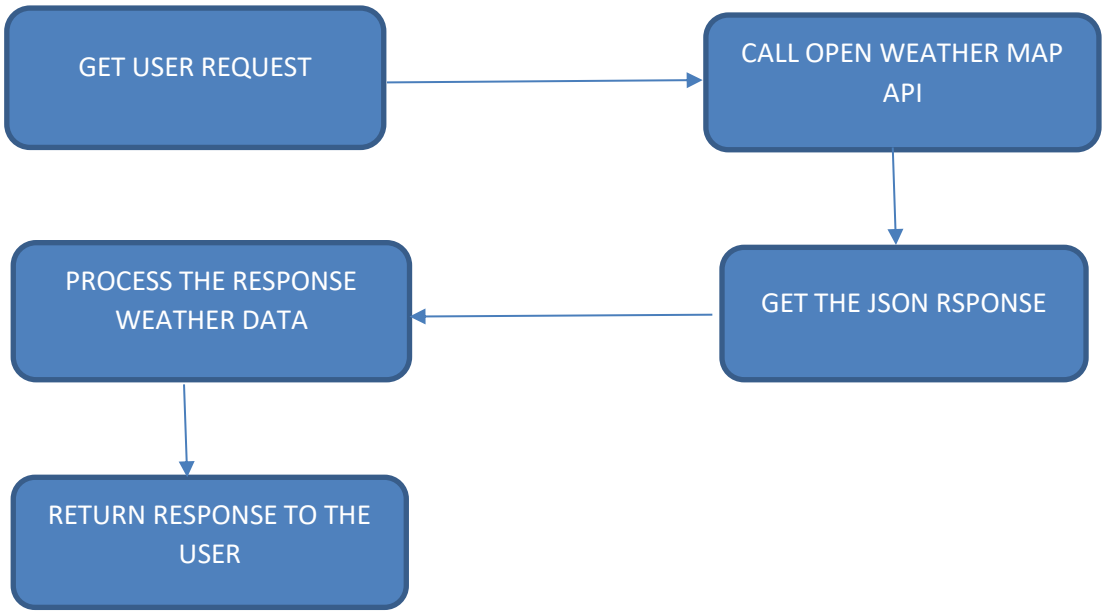


FIGURE 4.4 DATA FLOW DIAGRAM

CHAPTER 5

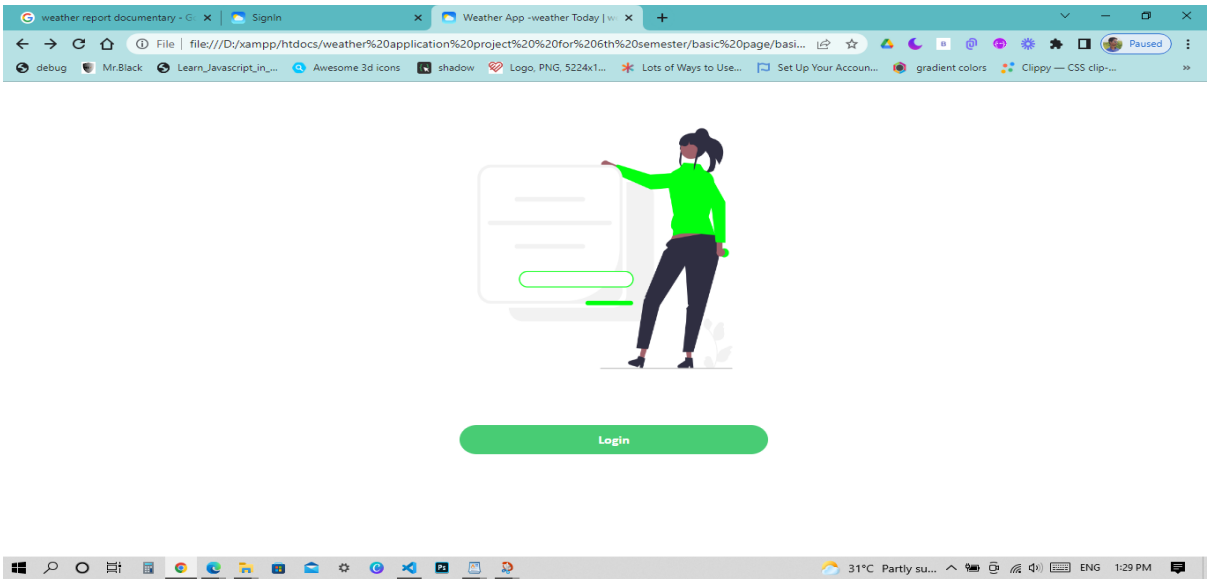
5.1 RESULTS

- In this application show in two different output pages. first one is Desktop responsive result second one is mobile result. If the device has screen minimum width 768px then it works in desktop and other big screens. Also, the Notification will work in desktop devices not mobile phones
- If the device has screen maximum width 600px then it works in mobile devices.

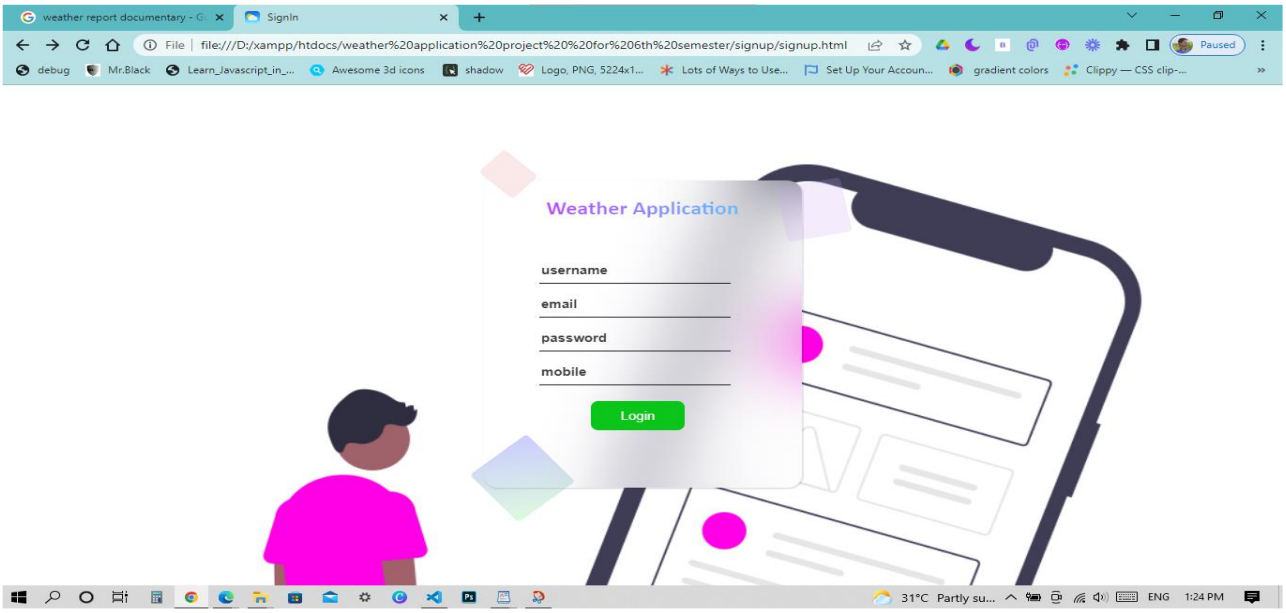
5.1 OUTPUT OF AN APPLICATION

OUT FOR DESKTOP (WIDTH- 768px)

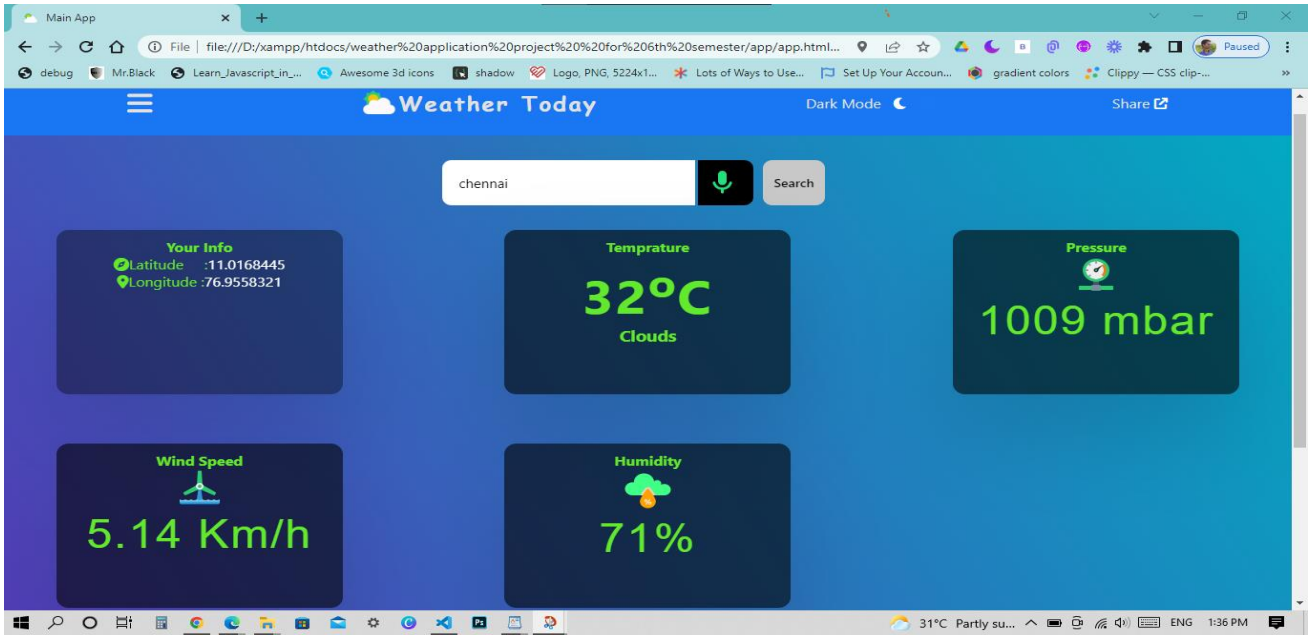
STARTING PAGE

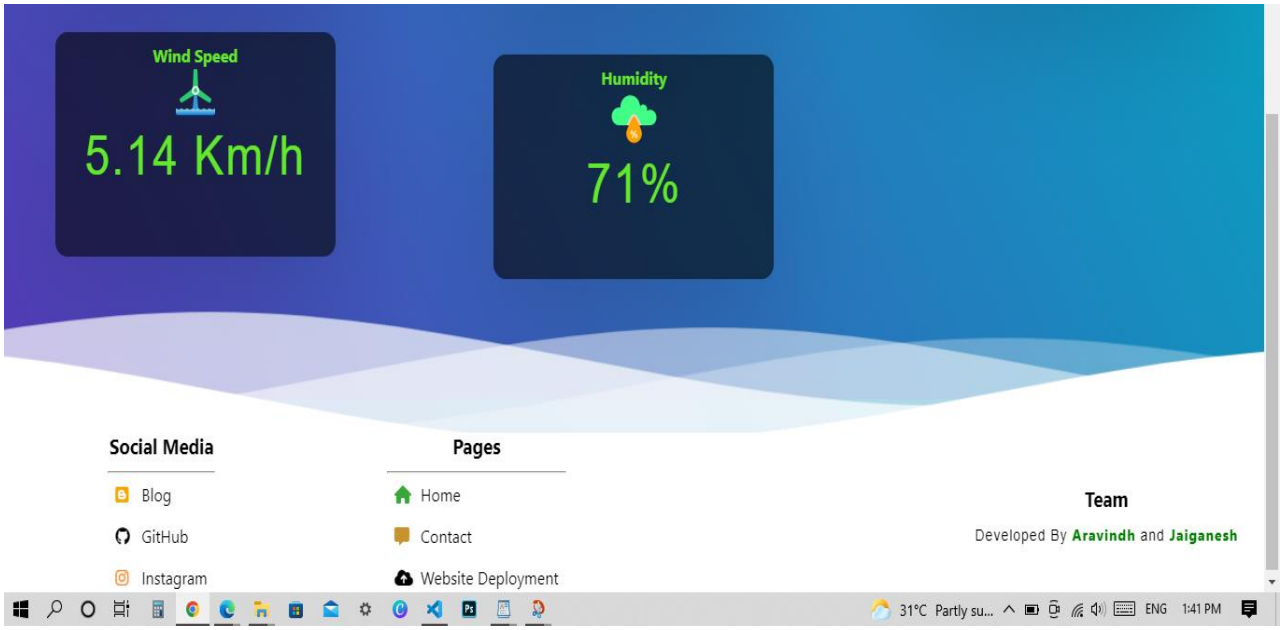


SIGNUP PAGE

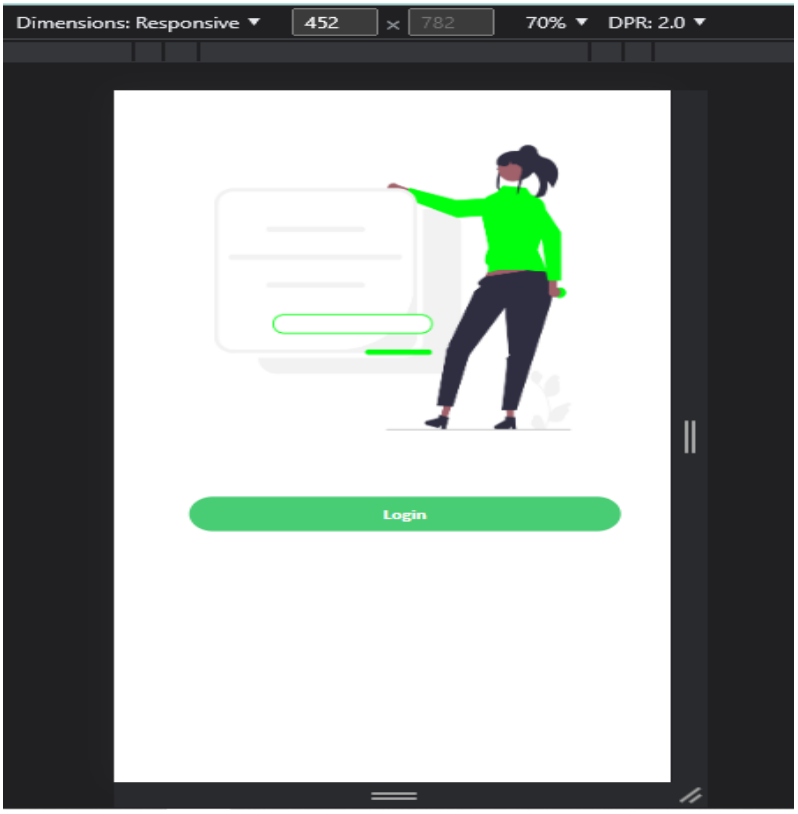


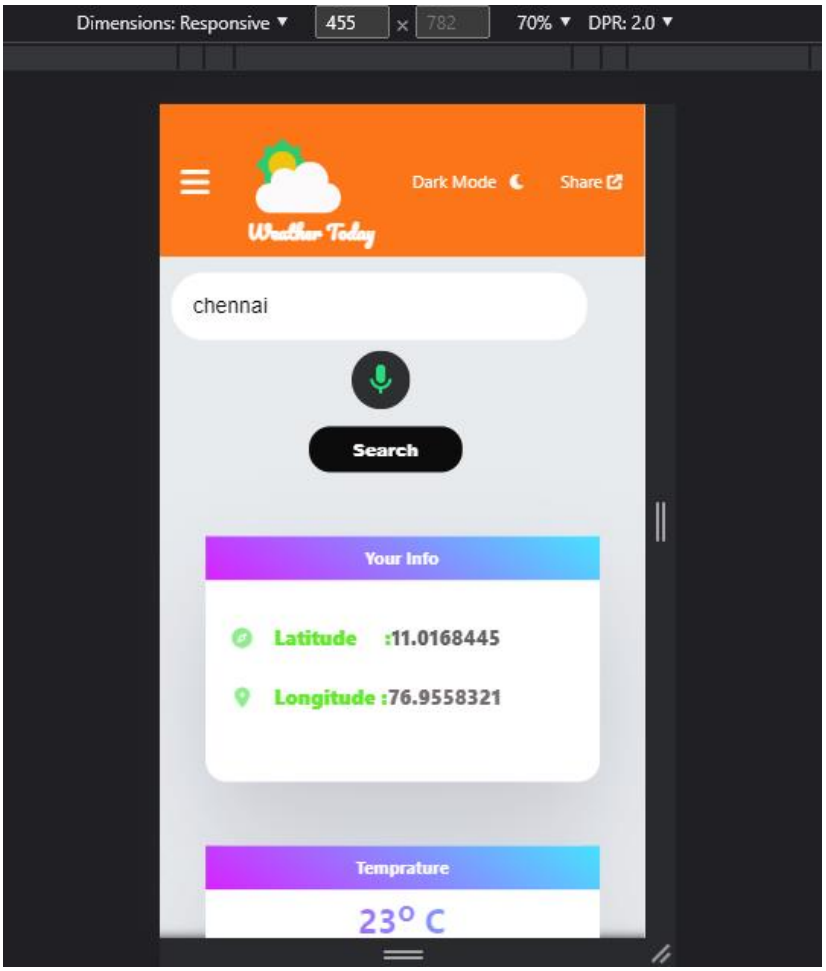
MAIN APPLICATION





OUTPUT FOR MOBILE DEVICES (WIDTH - 500)




Dimensions: Responsive
455
782
70%
DPR: 2.0
Dark Mode
Share
Weather Today
chennai
Search
Your Info
Latitude :11.0168445
Longitude :76.9558321
Temprature
23° C

CHAPTER 6

CONCLISION AND FUTURE WORK

6.1 CONCLUSION

Weather plays a major role in our daily life, and without the meteorologist and forecaster we would have difficulty planning our daily activities. As we can see, the weather is not a simple subject like we may have been thinking. The study of weather phenomenon requires the use of science, math, and different types of equipment and technology and data. Even with all these equipment, data, and observation tools, the weather continues to be a topic to study because it is constantly changing. Meteorologist and forecasters predict the weather and its possible changes, but in reality, weather is still unpredictable.

6.2 FUTURE WORK

IIn future this app will support more sensitive and effective voice recognition . M. Modern UI and high user experience like Security authentication, two step verification and OTP messaging services.

6.3 REFERENCES

For Designs

http://animatedbackgrounds.me/

https://fontawesome.com

For PHP

https://www.w3schools.com/php/

For javascript

https://www.w3schools.com/javascript/

For MySQL

https://www.mysql.com/

For XAMPP

https://www.apachifriends.org/

CHAPTER 7

SOURCE CODE AND IMPLEMENTATION

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0,user-scalable=no">
<!-- Theme color -->
<meta name="theme-color" content="hsl(24.3, 97.4%, 54.3%)">
<!-- for wider screen devices   " -->
<link rel="stylesheet"  media="screen and (min-device-width: 768px)" href="desktop.css">
<!-- for mobile phones -->
<link rel="stylesheet" media="screen and (max-device-width: 600px)" href="mobile.css" />
<!-- favicon -->
<link rel="shortcut icon" href="../assets/logo.png" type="image/x-icon">
<!-- Font Awesome CDN -->
<script src="https://kit.fontawesome.com/21fadd9069.js"
crossorigin="anonymous"></script>
<!-- css animated  -->
<link rel="stylesheet" href="../animatedbackground.css">
<!-- sweet alert -->
<script src="../sweetalert-2.1.2/package/dist/sweetalert.min.js"></script>
<!-- title -->
<title>Main App</title>
```

```
</head>
<body>
<!-- for menu icon -->
<script>
    function openNav() {
        document.getElementById("mySidenav").style.width = "100%";
    }
    function closeNav() {
        document.getElementById("mySidenav").style.width = "0";
    }
    </script>
<!-- all items -->
<div class="container">
<!-- page header -->
<nav class="headers">
    <!-- menue -->
    <span style="font-size:30px;cursor:pointer" onclick="openNav()"><i class="fa-solid fa-bars"></i></span>
    <div id="mySidenav" class="sidenav">
        <a href="javascript:void(0)" class="closebtn" onclick="closeNav()">&times;</a>
        <a href="https://github.com/aravindh-mb">GitHub</a>
        <a href="https://www.instagram.com/webdevfrontend/">Instagram</a>
        <a href="https://openweathermap.org/">Open Weather Map API</a>


        <a href="#">Website Deployment</a>
        </div>
            <!-- title -->
    <div class="title">
```

```
        <img src="../assets/logo.png" alt="">
      <h2>Weather Today</h2>
   </div>
        <!-- dark mode -->
   <div class="darkmode">
      Dark Mode<span style="margin-right:4px;"><i class="fa-solid fa-moon"
style="position:relative;color:rgb(246, 249, 246);left:12px;width: 20px;" ></i></span>
<input id="cb" type="checkbox"  style="position:absolute;width:70px;accent-color: rgb(56,
243, 56);margin:4px 0 0 -10px;opacity:0.01">
   </div>
   <div id="share-btn">
      Share <i class="fa-solid fa-arrow-up-right-from-square" style="width:15px;color: hsl(0,
0%, 100%);" onclick="vibrate(2000)"></i>
   </div>
</nav>
<!----------------------------------------------------------------------------------------------------
->
<!-- search container -->
<div class="searchcontainer">
   <div class="search">
        <div class="text"  >
           <input type="text" placeholder="Search by city or country..." id="search"
autocomplete="off" value="chennai">
        </div>
        <div class="voice">
           <img style="width:35px;margin-top:10px;" src="../assets/mic green.png"
alt="voice icon" onclick="runSpeechRecognition()">
        </div>
        <div class="go" onclick="saveLocalStorage()">
        Search</div>
```

```
        <div id="action" style="color: rgb(193, 64, 3);font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;transition: 0.9s;"></div>
    </div>
</div>
<!-- ------------------------------------------------------------------------------------------ -->
<div class="gridcontainer">
    <!-- boxes and items -->
    <div class="boxes">
        <div class="box_1">
            <h4>Your Info</h4>
            <ul>
                <li><i class="fa-solid fa-compass"></i>Latitude     :<span id="lat" style="color:rgb(98, 95, 95);margin-bottom:30px;">  Loading...</span> </li>
                <li><i class="fa-solid fa-location-dot"></i>Longitude :<span id="long" style="color:rgb(117, 109, 109);">  Loading...</span></li>
            </ul>
        </div>
        <div class="box_2">
            <h4>Temprature</h4>
                <div class="block1">
                    <img src="../assets/sun animated dark theme.gif" alt="" srcset="">
                    <img src="../assets/weathericons/04d.png" alt="">
                </div>
                <h1 id="celsius">23<sup>o</sup> C</h1>
                    <h3 id="description">Description</h3>
            </div>
            <div class="box_4">
            <h4>Pressure</h4>
                <img src="../assets/1.png">
```

```
            <h1 id="pressure"></h1>
        </div>
        <div class="box_5">
        <h4>Wind Speed</h4>
        <img src="../assets/windspeed.png" alt="img">
        <h1 id="windspeed"></h1>
        </div>


        <div class="box_2">
        <h4>Humidity</h4>
            <img src="../assets/humidity.png" alt="ds">
            <h1 id="humidity"></h1>
        </div>
            </div>
</div>
<!--  ------------------------------------------------------->
<!-- google maps for the place  -->
<div class="placemap">
        <div class="map"></div>
</div>
</div>
<!-- container end -->
<!-- animated background  -->
<div class="header">
<!--Waves Container-->
<div class="wave">
<svg class="waves" xmlns="http://www.w3.org/2000/svg"
xmlns:xlink="http://www.w3.org/1999/xlink"
```

```
viewBox="0 24 150 28" preserveAspectRatio="none" shape-rendering="auto">

<defs>

<path id="gentle-wave" d="M-160 44c30 0 58-18 88-18s 58 18 88 18 58-18 88-18 58 18 88 18 v44h-352z" />

</defs>

<g class="parallax">

<use xlink:href="#gentle-wave" x="48" y="0" fill="rgba(255,255,255,0.7" />

<use xlink:href="#gentle-wave" x="48" y="3" fill="rgba(255,255,255,0.5)" />

<use xlink:href="#gentle-wave" x="48" y="5" fill="rgba(255,255,255,0.3)" />

<use xlink:href="#gentle-wave" x="48" y="7" fill="#fff" />

</g>

</svg>

</div>

<!--Waves end-->

</div>

<!--Header ends-->

<!--Content starts-->

<div class="content flex">

<div class="socialmedia">

<h3 style="color:black">Social Media</h3>

<hr>

<ul>

   <li><i class="fa-brands fa-blogger"style="color:orange;" ></i><a href="https://www.mrblackblogging.blogspot.com">Blog</a></li>

   <li><i class="fa-brands fa-github"></i><a href="https://www.github.com/aravindh-mb">GitHub</a></li>

   <li><i class="fa-brands fa-instagram" style="color:rgb(251, 141, 50);"></i><a href="https://www.instagram.com/webdevfrontend">Instagram</a></li>

</ul>

</div>
```

```
<div class="pages">

<h3 style="color:black;">Pages</h3>

<hr>

<ul>

   <li><i class="fa-solid fa-house" style="color:rgb(57, 168, 57);"></i><a
href="#">Home</a> </li>

   <li><i class="fa-solid fa-message" style="color: rgb(201, 147, 47);"></i><a
href="mailto:aaravindh23cse@gmail.com">Contact</a></li>

   <li><a href ="https://www.youtube.com/channel/UCLVg3MV6dGLaM9QtHuscVxQ"><i
class="fa-solid fa-cloud-arrow-up"></i>Youtube</a></li>

</ul>

</div>

<br>

<div class="team">

   <h3 style="color:black;">Team</h3>

<p style="color:black"> Developed By <span style="color: green;font-weight: 700;font-
family:'Segoe UI"'>Aravindh</span> and <span style="color: green;font-weight: 700;font-
family:'Segoe UI"'>Jaiganesh</span></p>

</div>

</div>

<!--Content ends-->

<!-- vibrate.js file  -->

<script src="../app/vibrate.js"></script>

<!-- darkmode -->

<script src="darkmode.js"></script>

<!-- web share API -->

<script src="webshare.js"></script>

<!-- notification.js -->

<script src="notification.js"></script>

<!-- offline detection -->
```

```
<script src="./offline detection.js"></script>
<!-- voice recognition js file  -->
<script src="../app/voice recognition.js"></script>
<!-- main js file  -->
<script src="js.js"></script>
</body>
</html>
```

Desktop.css

```
@import url('https://fonts.googleapis.com/css2?family=Inter:wght@300&display=swap');
:root{
    --bg1 :url('../assets/dark.jpg');
    --bg2 :url('../assets/lightning.jpg');
    --bg3 :url('../assets/sky2.jpg');
    --bg4 :url('../assets/sky.jpg');
    --ff:'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
}
*{
    font-family: var(--ff);
    margin: auto;
    padding: 0;
}
html{
    scroll-behavior: smooth;
}
body{
/* background-image: var(--bg2); */
background: linear-gradient(60deg, rgba(84,58,183,1) 0%, rgba(0,172,193,1) 100%);
```

```
background-repeat: repeat;
/* background-position: center;
background-size:cover; */
height:120vh;
animation: changeimage 14s linear infinite;
color:white;


/* background:var(--bg2); */
/* overflow-x: hidden; */
}
.title > h2{
    font-family: 'Cookie', cursive;
    letter-spacing: 2px;
    line-height: 5px;
}
/* @keyframes changeimage{
    from{
        background-image: var(--bg4);
    }
    to{
        background-image: var(--bg2);
    }
} */
.container{
    justify-content:space-between;
    width: auto;
}
.sidenav{
```

```
    display:none;
    opacity:0.001;
}
nav{
    width: auto;
    left: 0;
    display: flex;
    color:rgb(226, 226, 226);
    align-items: center;
    background-color: #1877f2;
    padding:20px;
    justify-content: space-evenly;
}
.headers{
    backdrop-filter:blur(100px);

}
.sbar{
    display:none;
}
.menu {
      display: flex;
      margin-left: 10px;
}
.menu h4{
    margin: 18px;
}
.title{
```

```
    display: flex;
}
.title img{
    width: 40px;
}
.searchcontainer{
    display: grid;
    place-content: center;
    margin-top: 30px;
    font-weight: 500;
    border-radius: 10px;
    width: 600px;
    overflow: hidden;
    -webkit-tap-highlight-color: transparent;
}
.search ,.go{
    display: flex;
    align-items: center;
    justify-content: center;
    margin-left: 20px;
    font-size: 20px;
    margin-left:10px;
    margin-right: 20px;
    cursor: pointer;
}
.text input{
    padding: 17.5px;
    border: none;
```

```
    border-top-left-radius: 10px;
    border-bottom-left-radius: 10px;
    outline: none;
    width: 230px;
}
.text input::placeholder{
    font-size: 15px;
    caret-color: rgb(35, 183, 35);
    color: green;
}
.voice{
    height:55px;
    width:  58px;
    margin-left: 3px;
    background-color:black;
    border-top-right-radius: 10px;
    border-bottom-right-radius: 10px;
    box-shadow: rgba(50, 50, 93, 0.25) 0px 50px 100px -20px, rgba(0, 0, 0, 0.3) 0px 30px
60px -30px;
}
.voice img{
    margin-left: 8px;
}
.go{
    height: 55px;
    width: 65px;
    font-size: 14px;
    background-color: rgb(200, 200, 200);
    border-radius: 10px;
```

```
    color:black;
}
input{
    font-size: 15px;
}
/* dark mode system inbuild invoke */
@media(prefers-color-scheme:light) {
    body{
        color:#f5efef;
    }
    .navbar{
        background-color:grey;
    }
}
@media(prefers-color-scheme:dark) {
    body{
        color:#63e92d;
    }
}
.gridcontainer{
    margin-top: 30px;
}
.gridcontainer .boxes {
    display:grid;
    place-content:center;
    grid-template-columns: repeat(auto-fit,minmax(400px,1fr));
    gap: 60px;
    margin-bottom: 10px;
```

```
}
.box1{

}
 .box_1,.box_2,.box_3,.box_4,.box_5{
    height:200px;
    width:300px;
    border-radius: 13px;
    text-align: center;
}
.boxes{
    font-family:fantasy;
}
.box_1,.box_2,.box_3,.box_4,.box_5,.box_6{
    background-repeat: no-repeat;
    overflow: hidden;
    background: rgba(0, 0, 0, 0.6);
    background-size:contain;
    box-shadow: rgba(17, 12, 46, 0.15) 0px 48px 100px 0px;
}
.boxes h4{
    margin-top:10px;
    align-items:flex-end;
}
.box_1:hover,.box_2:hover,.box_3:hover,.box_4:hover,.box_5:hover{
    transition:0.4s ease-in-out;
    transform:translateY(-20px);
}
```

```
.box_1,.box_2,.box_3,.box_4,.box_5{
    animation:animate-boxes 2s ease-in-out;
}
.box_1{
   animation-delay: 0.1s;
   transition: 1s ease-in-out;


   background-color: rgb(0, 0, 0,0.4);
}
.box_2{
    animation-delay: 0.3s;
    transition: 1s ease-in-out;
}
.box_3{
    animation-delay: 0.5s;
    transition: 1s ease-in-out;
}
.box_4{
    animation-delay: 0.7s;
    transition:linear;
}
.box_5{
    animation-delay: 0.9s;
    transition: 1s ease-in-out;
}
@keyframes animate-boxes{
    from{
        opacity:0.1;
```

```
        transform:translateY(-19px);
    }
     to{
        opacity:1;
        transform:translateY(20px);
        transition:2s ease-in-out;
    }
}
.darkmode{
    position: relative;
}
/* animated view  */
@import url(fonts.googleapis.com/css?family=Lato:300:400);
h1 {
  font-family: 'Lato', sans-serif;
  font-weight:300;
  letter-spacing: 2px;
  font-size:48px;
}
p {
  font-family: 'Lato', sans-serif;
  letter-spacing: 1px;
  font-size:14px;
  color: #333333;
}
.header {
  position:relative;
  text-align:center;
```

```
  color:rgb(221, 73, 73);
}
.inner-header {
  height:65vh;
  width:100%;
  margin: 0;
  padding: 0;
}


.flex { /*Flexbox for containers*/
  display: flex;
  justify-content: center;
  align-items: center;
  text-align: center;
}
.waves {
  position:relative;
  width: 100%;
  height:auto;
  margin-bottom:-7px; /*Fix for safari gap*/
  min-height:100px;
  max-height:130px;
  bottom: -10px;
}
.content {
  position:relative;
  height:20vh;
  text-align:center;
```

```
  background-color: white;
  height: 23vh;
}
.content ul{
    color: rgb(48, 36, 36);
    text-decoration: none;
    align-self: flex-start;
    list-style-type: none;
}
.content ul li{
    text-align: left;
    padding: 8px;
}
.content ul li a{
    text-decoration: none;
    color: black;
}
.content ul li i{
    margin-right: 8px;
    width:20px;
    color:rgb(0, 0, 0);
}
.content h3{
    margin-bottom: 10px;
}
.content  {
    display:grid;
    place-content:center;
```

```
    grid-template-columns: repeat(auto-fit,minmax(230px,1fr));
    margin-bottom: 30px;
}
/* Animation */
.parallax > use {
  animation: move-forever 25s cubic-bezier(.55,.5,.45,.5)     infinite;
}
.parallax > use:nth-child(1) {
  animation-delay: -2s;
  animation-duration: 10s;
}
.parallax > use:nth-child(2) {
  animation-delay: -3s;
  animation-duration: 13s;
}
.parallax > use:nth-child(3) {
  animation-delay: -4s;
  animation-duration: 17s;
}
.parallax > use:nth-child(4) {
  animation-delay: -5s;
  animation-duration: 23s;
}
@keyframes move-forever {
  0% {
   transform: translate3d(-90px,0,0);
  }
  100% {
```

```
    transform: translate3d(85px,0,0);
  }
}
/*Shrinking for mobile*/
@media (max-width: 768px) {
  .waves {
    height:40px;
    min-height:40px;
  }
  .content {
    height:30vh;
  }
  h1 {
    font-size:24px;
  }
}
.block1 img:first-child{
    display: none;
    color:rgb(95, 160, 216);
}
```

Mobile.css

```
@import url('https://fonts.googleapis.com/css2?family=Pacifico&display=swap');
:root{ }
*{
    margin: 0;
    padding: 0;
}
@media(prefers-color-scheme:light) {
```

```
    body{
        color:#000000;
    }
}
@media(prefers-color-scheme:dark) {
    body{
        color:#63e92d;
    }
}
html{
    scroll-behavior: smooth;
}
body{
    user-select: none;
    user-zoom: none;
    background: var(--b);
    background-repeat: no-repeat;
    background-size:cover;
    backdrop-filter: blur(5px);
    background-color: rgb(232, 235, 238);
    font-family: 'segoe UI';
}
nav{
    display:flex;
    align-items:center;
    justify-content:space-between;
    color:white;
    background-color:hsl(24.3, 97.4%, 54.3%);
```

```
    padding:20px;
    width:auto;
}
nav .title{
    font-size:10px;
    color:rgb(255, 255, 255);
    font-size: 12px;
    font-family: Pacifico;
    line-height: 7px;
}
.wave{
    margin-bottom: -8px;
}
.searchcontainer {
    display: flex;
}
.searchcontainer .text >input{
    background-color: rgb(255, 255, 255);
    font-size: 20px;
    width:350px;
    display: grid;
    place-content: center;
    border-radius: 30px;
    overflow: hidden;
    margin: 15px 11px auto;
    padding: 20px;
    outline: none;
    border: none;
```

```
    color: rgb(0, 0, 0);
}
.searchcontainer .text >input::placeholder{
    color:green;
    font-size: 18px;
}
.voice>img{
    padding:10px;
    background-color: rgb(0, 0, 0,0.8);
    border-radius: 50%;
    margin-left: 180px;
    position: relative;
}
.voice>img:active{
    transition: 0.5s ease-in-out;
    transform : scale(0.8);
    background-color: lightslategray;
    color:green;
}
.go{
    font-weight: 800;
    font-family: sans-serif;
    display: flex;
    align-items: center;
    justify-content: center;
    margin: 12px 20px 10px 140px;
    cursor: pointer;
    padding: 10px;
```

```
    background-color: rgb(12, 12, 12);
    width:30%;
    color:white;
    border-radius: 20px;
    -webkit-tap-highlight-color: transparent;
}
.go:active{
transition: 0.5s ease-in-out;
transform : scale(0.8);
}
.gridcontainer{
    margin-top: 50px;
}
.gridcontainer .boxes {
    display:grid;
    place-content:center;
    grid-template-columns: repeat(auto-fit,minmax(400px,1fr));
    gap: 60px;
    margin-bottom: 50px;
}
.box_1,.box_2,.box_3,.box_4,.box_5{
    height:230px;
    width:370px;
    border-radius: 20px 20px 20px 20px;
    text-align: center;
    margin: auto;
}
.box_1,.box_2,.box_3,.box_4,.box_5{
```

```
    margin-top:auto;
    /* overflow: hidden; */
    background: rgb(255, 255, 255);
    background-size:contain;
    box-shadow: rgba(17, 12, 46, 0.15) 0px 48px 100px 0px;
}
.box_1:hover,.box_2:hover,.box_3:hover,.box_4:hover,.box_5:hover{
    transition:0.5s ease-in-out;
    transform:translateY(-20px);
}
.box_1,.box_2,.box_3,.box_4,.box_5{
    animation:animate-boxes 2s ease-in-out;
}
.box_1{
    animation-delay: 0.1s;
    transition: 1s ease-in-out;
 }
 .box_2{
    animation-delay: 0.7s;
    transition: 3s ease-in-out;
} .box_3{
    animation-delay: 0.5s;
    transition: 1s ease-in-out;
}
.box_4{
    animation-delay: 0.7s;
    transition:linear;
}
```

```
.box_5{
    animation-delay: 0.9s;
    transition: 1s ease-in-out;
}
@keyframes animate-boxes{
    from{
        opacity:0.6;
        transform:translateY(-19px),scale(0.3);
    }
     to{
        opacity:1;
        transform:translateY(20px);
    }
}
.darkmode{
                    console.log("share finished successfully");
                }).catch(console.error)
            }else{
                swal("Share failed webshare API does not support");
            }
        })
}
sharingOption();
```

Js.js

```
let box1 =document.querySelector('.box_1');
let lat =document.getElementById('lat');
let long =document.getElementById('long');
const KELVIN = 273;
```

```
//declare variables
var  lati = document.getElementById('lat');
var  longi = document.getElementById('long');
var  status = document.querySelector('.status');
var  place = document.getElementById('place');
var  country = document.getElementById('Country');
var  block1 =document.querySelector('.block1');
var  celsius = document.getElementById('celsius');
var  descriptiopn = document.getElementById('descriptiopn');
var  pressure = document.getElementById('pressure');
var  humidity = document.getElementById('humidity');
var  searchText = document.getElementById('search');
//check geolocation
  if('geolocation' in navigator){
      navigator.geolocation.getCurrentPosition(setPosition,showError);
      console.log("checked ");
  }else{
    swal("Your Browser Doesn't support geolocation");
    }
    //set user's position
 function setPosition(position){
     let latitude = position.coords.latitude;
     let longitude = position.coords.longitude;
     console.log(`${latitude} , ${longitude}`);
    //  latitude.style.color="green";
    //  longitude.style.color="green";
     lat.innerText =`${latitude}`;
     long.innerText=`${longitude}`;
```

```
}
//show error when when there is an occuring issue with geolocation service
function showError(error){
      console.error(error);
}
var cityName = document.getElementById('search').value;
const weather = {
 temparature:{
   value :18,
   unit: "celsius"
 },
 description : "",
 iconId : "",
 city : "",
 country : "",
 latitude :"",
 longitude :""
}
let gobtn = document.querySelector('.go');
gobtn.addEventListener('click',()=>{
 if(navigator.onLine){
   let api =
`https://api.openweathermap.org/data/2.5/weather?q=${cityName}&appid=4094f56683903ba
10f8d1c31036fb31c`;
 fetch(api)
 .then((response) => {
   let data = response.json();
   return data;
 }).then((data)=> {
```

```
        console.log(data);
        weather.temparature.value =Math.floor( data.main.temp - KELVIN);
        weather.description = data.weather[0].main;
        weather.iconId = data.weather[0].icon;
        weather.city = data.name;
        weather.country = data.sys.country;
        weather.latitude = data.coord.lat;
        weather.longitude = data.coord.lon;
        weather.humidity =data.main.humidity;
        weather.pressure =data.main.pressure;
        weather.windspeed =data.wind.speed;
    });
    console.log("weather data fetched successfully ");
    console.log(`${weather.country}`);
    console.log(`${weather.description}`);
    console.log(`${weather.city}`);
    console.log(`${weather.latitude}`);
    console.log(`${weather.iconId}`);
    celsius.innerHTML = `<h3>${weather.temparature.value}<sup>o</sup>C</h3>`;
    description.innerText = weather.description;
    pressure.innerHTML =`${weather.pressure} mbar`;
    windspeed.innerHTML =`${weather.windspeed} Km/h`;
    humidity.innerHTML =`${weather.humidity}%`;
    country.innerHTML =`<h1>${weather.country}</h1>`;
}
else{
    console.log('fetch failed');
    }
```

```
});
```

Vibrate.js

```
// vibrate Mobiles for onw time
function vibrate(ms){
   navigator.vibrate(ms);
}
```

Notification.js

```
function trigger_notification()
{
   var a= 10;
   //check if browser supports notification API
   if("Notification" in window)
   {
      if(Notification.permission == "granted")
      {
         var notification = new Notification(`Weather Application Management System`, {"body":`${latitude}Brings you the best location results and mordern UI !`, "icon":"../assets/weathericons/windspeed.png"});
      }
      else
      {
         Notification.requestPermission(function (permission) {
            if (permission === "granted")
            {
               var notification = new Notification("Notification API", {"body":"", "icon":"../assets/weathericons/icons8-sun.png"});
            }
         });
      }
```

```
    }
    else
    {
        swal("Your browser doesn't support notfication API");
    }
}
trigger_notification();
```

Offlinedetection.js

```
window.addEventListener('online',deviceStatus);
window.addEventListener('offline',deviceStatus);
function deviceStatus() {
if (navigator.onLine){
swal({
    title: "You are all set!",
    text: "Good to go",
    icon: "success",
    button: "continue",
    });
}
else{
swal({
    title: "Internet not connected!",
    text: "Some features are may not work so please connect to the internet",
    icon: "warning",
    button: "continue",
    });
}
```

```
}
```

Localstorage.js

```
function saveLocalStorage() {
    let new_data = document.getElementById('search').value;
    if(localStorage.getItem('data')==null)
    {
        localStorage.setItem('data','[null]');
    }
    let old_data =JSON.parse(localStorage.getItem('data'));
    old_data.push(new_data);
    localStorage.setItem('data', JSON.stringify(old_data));
}
function history(){
    let history =  document.querySelector('history');
    let history2 =  document.querySelector('history2');
history2.onclick= ()=>{
        history2.style.display='block';
}
}
```

actions.php

```
<?php  $host = "localhost"; $username = "root";
$pwd = "";
$dbname = "login";
```

```
 $con =new mysqli("$host","$username","$pwd","$dbname");  if(!$con){      die
("error".$con->connect_error());

 } echo "<h3>database connected successfully</h3>";  $user_name = $_GET['user_name'];
$user_password = $_GET['user_email']; $user_email = $_GET['user_password'];
$user_mobile =$_GET['user_mobile'];  $query ="INSERT INTO
data(username,email,password,mobile)
values($user_name,$user_email,$user_password,$user_mobile)"; $result =
mysqli_query($con,$query);  if($result)

{

 echo "data inserted successfully";

 }

 else

{

    echo "error while inserting the data";

 }

 ?>
```

REFERENCES

[1]SoumalyaGhosh,A.B.Garg"Krishi-Bharati:AnInterfaceforIndianFarmer".SayanSarcar,P.S.V.SSridhar,OjasviMaleyvarandRaveeshkapoor.UniversityofPetroleum&EnergyStudies,Dehradun,India.IndianInstituteofTechnologyKharagpur,India.UniversityofPetroleum&EnergyStudies,Dehradun,IndiaIndianInstituteOfTechnologyKharagpur,India,IEEE,2014.

[2]"Krishi-Mitra:ExpertSystemforFarmers"Ms.PrachiSawant,Mrs.M.A.Shaikh,Ms.AartiThorat,Ms.ArtiMhaske,Ms.SamruddhiGhanwat ,Department ofInformationTechnology,JSPM'sRajarshiShahuCollegeofEngineering,IJCSMC, Vol.4,Issue.4,April2015.

[3]NamitaMittal,BasantAgarwal,AjayGupta,HemantMadhur,"IconBasedInformationRetrievalandDiseaseIdentificationinAgriculture."InInternationalJournalofAdvancedStudiesinComputerScience&EngineeringIJASCSE,Volume3,Issue3,2014.

[4]MilindK.Tatte,MangeshK.Nichat,"EnhancementinAgroExpertSystemforRiceCrop."InInternationalJournalofElectronicsCommunicationandComputerEngineeringVolume4, Issue(2)REACT-2013.