

**DR. BABASAHEB AMBEDKAR MARAHTWADA UNIVERSITY,
AURANGBAD**



PROJECT REPORT

ON

“Weather Application”

Submitted By

**Mr.Ayush Lingayat , Miss.Akshita
Warade & Miss.Shruti Kulkarni**

**MCA (Management)
II Semester**

Guided By

Miss Deepali Khedkar

Submitted To

**Institute of management studies and information technology,
Aurangabad 431005.**

(2024-2025).

Maratha Shikshan Sanstha's
Institute Of Management Studies & Information Technology



CERTIFICATE

We hereby certify that the project title “**The Weather Application**” is submitted by **Mr.Ayush Lingayat , Miss. Akshita Warade & Miss.Shruti Kulkarni** confirms to acceptable standards and is adequate in scope and quantity in partial fulfilment of requirements for the Master of Computer Application of Institute of Management Studies & Information Technology, affiliated to **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.**

Project Guide

Director

External Examiner

.....
Miss Deepali Khedkar

.....
Dr. Ashok Gaikwad

.....

ACKNOWLEDGEMENT

Many people have contributed in some or the other forms to this project, although my name appears on the cover of this project. I could not have done this Case Study without the assistance or support of each of the following. I thank to all of them.

I wish to place on record my deep sense of gratitude towards my project guide **Miss. Deepali Khedkar** for the constant motivation and valuable help through the project. I also want to express gratitude towards our Head of the department **Dr. Ashok Gaikwad**, for his invaluable guidance, insightful advice and continuous encouragement

I also thank those who have directly as well as indirectly supported me for the completion of this Project.

Thank you

Mr. Ayush Lingayat

Miss Akshita Warade

Miss Shruti Kulkarni

INDEX

Sr. No.		Chapter name	Page no
1		INTRODUCTION	1
	1.1	Introduction	1
	1.2	Existing system and need for system	2
	1.3	Scope of work	2
	1.4	Operating Environment Hardware & software Requirement.	3
	1.5	Detailed Description of Technology Used	4
2		PROPOSED SYSTEM	6
	2.1	Proposed system	6
	2.2	Objective of system	7
	2.3	User Requirement	7
3		ANALYSIS & REPORT	8
	3.1	Data Flow Diagram	8
	3.2	Entity Relationship Diagram (ERD)	10
	3.3	Feasibility Report	11
	3.4	Tree Diagram	12
	3.5	Sample Program Code	13
4		USER INTERFACE SCREEN	19
	4.1	Home Section	56
	4.2	Hero Section	58
7		CONCLUSION	59
8		BIBLIOGRAPHY	60

1. INTRODUCTION

1.1 Introduction

Our Project is usually Weather Application website where you can access the weather information just by simply typing the state in the search box .

You can get the Temperature , Humidity and Wind Information of the particular state in seconds using a Weather Application Website.

Our Weather Application Website offers a user-friendly Interface so that it is easy and more interactive to user.

We have build a good looking navigation bar which will attract the user using the website. Lastly this website is build using teamwork and all the credit goes to respective teammates

1.2 Existing System & Need for System

The system must be evaluated from the technical point of view first. The project should be developed such that the necessary function and performance are achieved within the less. Need for System:-

- To save Time.
- To use less man power.
- Easy to do Reservation.

1.3 Scope of Work

Designing and usually apelling user interface that displays weather information in clear and understanding manner

Creating interactive elements such as buttons menus and search bar for user interaction

Display current user location for current weather condition

Implementing error handling for network issues

Gathering feedback from user to and improve the app user experience

Showing each location weather details inside our country India

The scope of a weather application can vary depending on its target audience, features and intended use. The primary scope of weather application is to provide users with accurate and up-to-date weather information. This includes current conditions such as temperature, humidity and wind speed

1.4 Operating environments Hardware and Software Requirements

In a computer the operating environment includes temperature and so on affecting circuitry but in particular the term is often used to describe the nonphysical environment in which software runs. This many apply to application software with which interact, comprising the “look and feel” of the system, its appearance and the things that have to be done to achieve results. The term may also apply to system software designed for a UNIX environment will do things different than in a Microsoft Window environment. A UNIX shell with its look and feel and functionality.

“Operating environment” is not the totality of the functionality and appearance of an operating system

Software Requirements.

- **Operating system used :** Windows 11
- **Library Used :** Bootstrap
- **Development :** HTML , CSS
- **Language :** JavaScript
- **Version Control :** Git and GitHub

Hardware Requirement

- 1.3 GHz processor
- 8 GB RAM
- 100 GB hard disk
- 15” color Monitor
- Keyboard

Detailed Description of Technology Used:

Front end development is the area of web development that focuses on the user interface. It is all about converting the backend code into a graphical interface. The front end makes the data easy to read and understand.

HTML:

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most of markup (e.g., HTML) languages are human readable. Language uses tags to define what manipulation has to be done on the text.

CSS:

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs, and variations in display for different devices and screen sizes as well as a variety of other effects.

CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

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.

JavaScript is a MUST for students and working professionals to become a great Software Engineer especially when they are working in Web Development Domain.

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 software's using different JavaScript based frameworks like jQuery, Node.JS etc.

2 PROPOSED SYSTEM

2.1 Proposed system

SkyCast is user friendly and comprehensive weather application design to provide accurate and up-to date weather information to users worldwide.

This application aims to offer a seamless experience combining advance weather forecasting technology with an good user interface. Weatherwise provide real time weather updates ensuring that user have access to the latest information on temperature

Weatherwise seamlessly integrates with wearable devices such as smartwatches , providing users with instant access to weather information on the go

Advantages:

- Faster and efficient result of weather searches
- Highly Secure and Portable application
- Provide with accurate forecast
- Provide real time updates
- User can stay informed about weather conditions

2.2 Objective of system

The objective of weather application is to provide users with accurate and timely weather information including forecasts , real time updates and alerts to help them plan activities stay safe and make informed decisions based on current and future weather conditions

The primary objective of a weather application is to empower users with comprehensive and reliable weather information. By offering accurate forecasts , real-time updates and alerts these applications enable users to plan their daily activities whether its deciding what to wear scheduling outdoor events or preparing for the travel

Weather application aims to enhance safety by providing timely warnings for severe weather events such as storms or hurricanes allowing users to take necessary precautions

The overall goal is to offer a convenient and accessible platform for users to stay informed about weather conditions helping them make informed decisions and navigate their daily lives more effectively.

2.3 User Requirement:

Users expect the application to provide accurate forecasts for their current location or any specified location. This includes information on temperature , humidity wind speed precipitation and other relevant weather parameters

Users want real time updates on weather conditions ensuring that they have the latest information available to plan their activities accordingly.

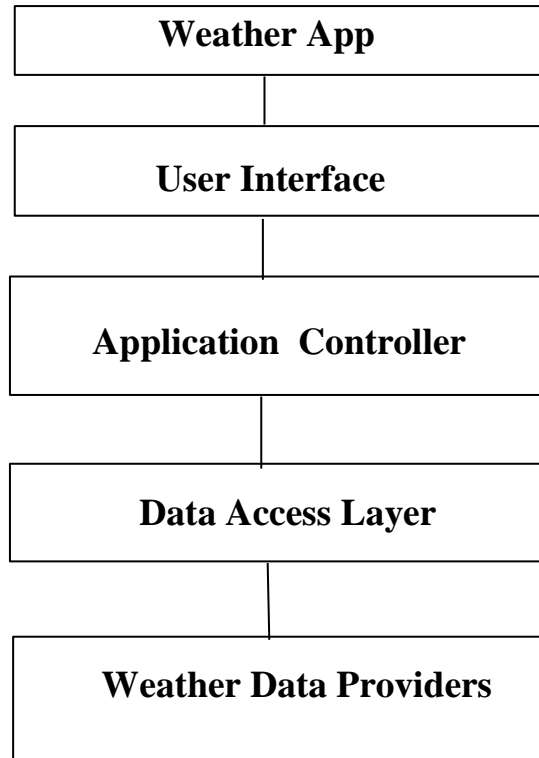
Users prefer customizable options to tailor the applications to their preferences such as choosing between Celsius and Fahrenheit selecting units of measurement and setting weather alert preferences

Users expect the application to have an intuitive and user-friendly interface that makes it easy to navigate view weather information and access various features without difficulty.

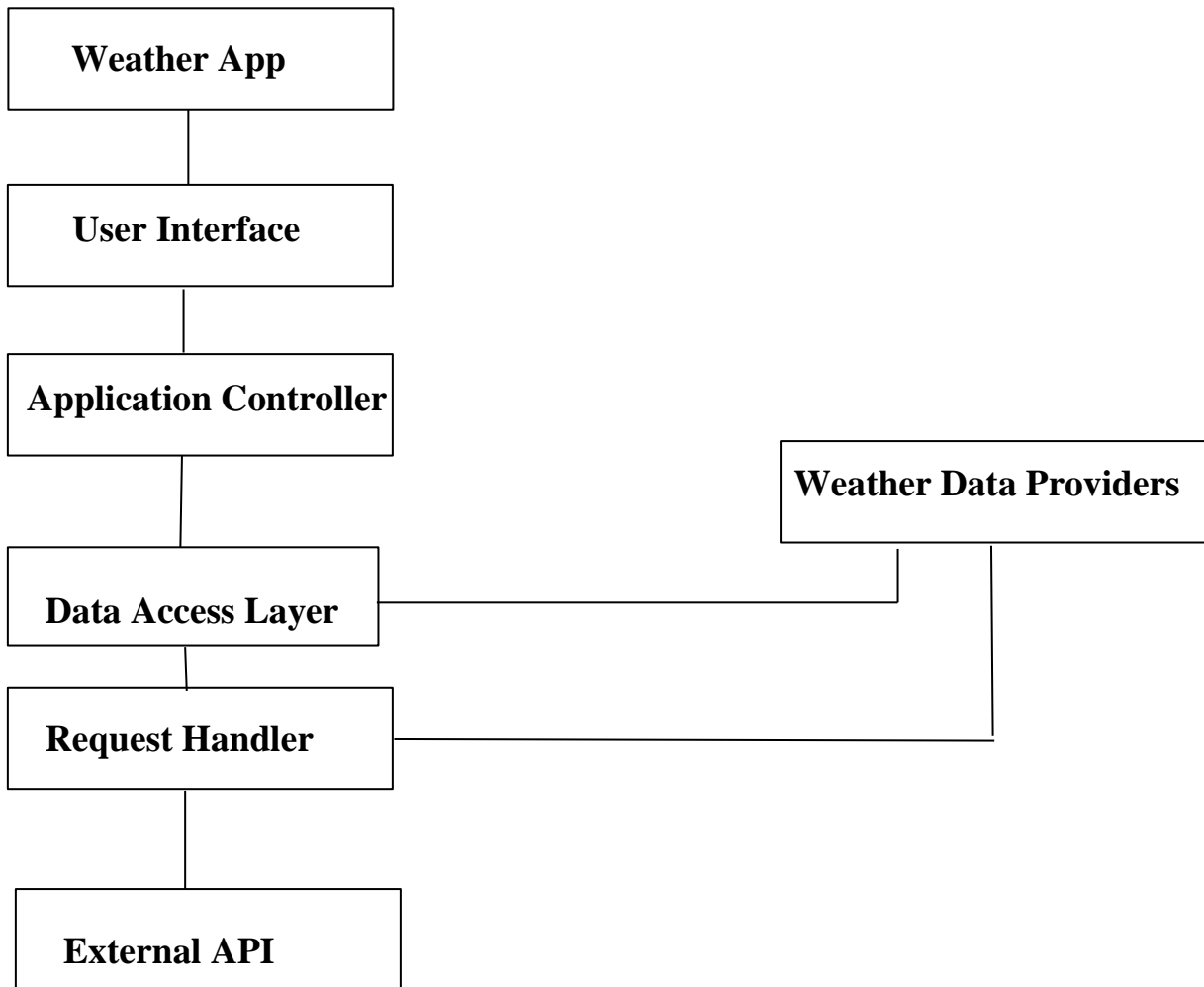
3 ANALYSIS & REPORT

3.1 Data Flow Diagram

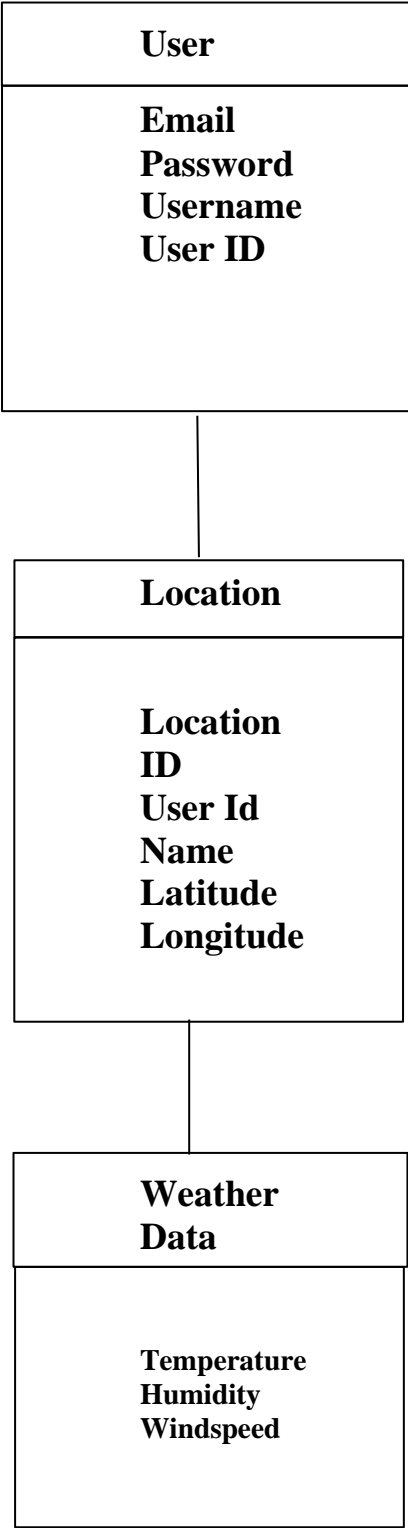
Level 0:



Level 1:



3.2 Entity Relationship Diagram (ER-diagram)



3.3 Feasibility Report

Technical Feasibility :

1. Evaluate if the required hardware and software infrastructure are available or can be acquired within the project's budget
2. Assess the availability and reliability of weather data sources and APIs needed for the application

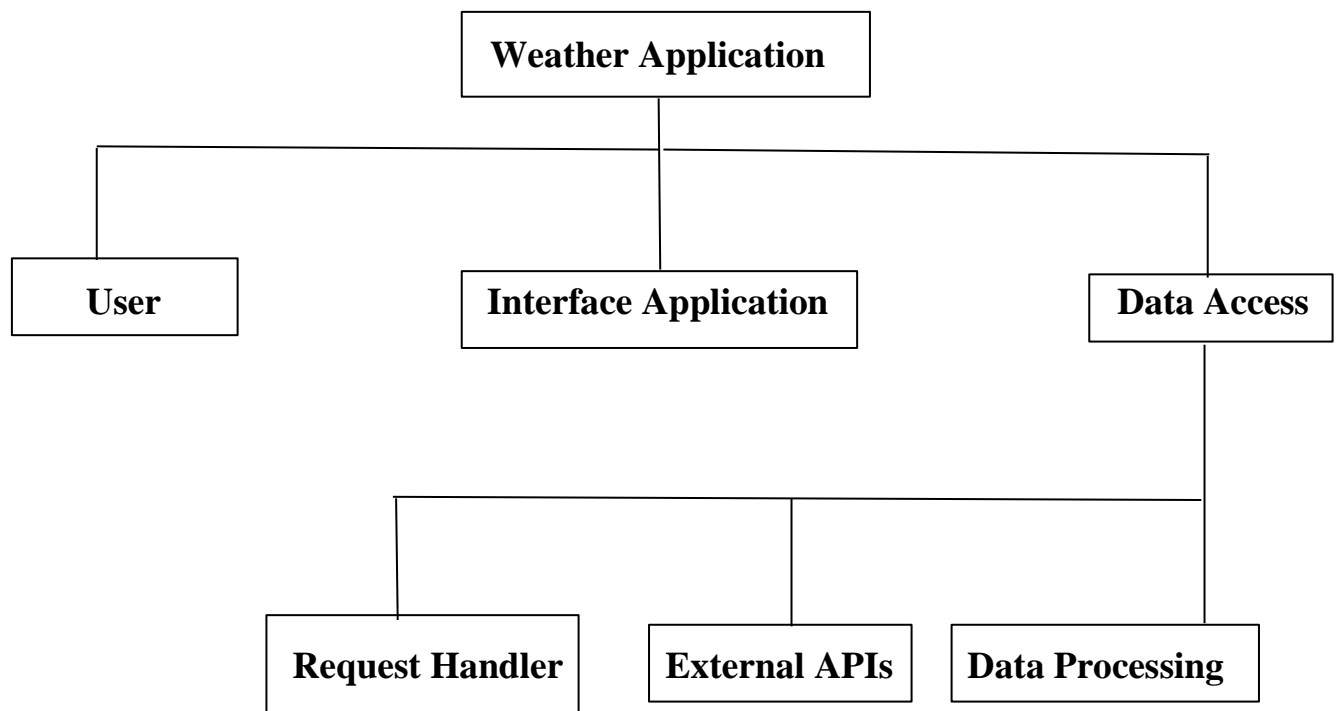
Economic Feasibility:

1. Cost Benefit Analysis : Estimate the development costs , including hardware , software personal , and maintenance expenses and compare them with the potential benefits and revenue generation opportunities
2. Revenue Model : Explore potential revenue streams such as advertising , subscription fees , premium features , or partnerships with other services

Operational Feasibility:

1. User Requirements : Analyze user needs and preferences to ensure that the application meets their expectations and provide value.
2. Scalability : Assess the application's ability to handle increasing user demand and data processing requirements as it scales over time.

3.4 Tree Diagram



3.5 Sample Program Code

HTML :

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Weather Website : Developed by Ayush,Akhita & Shruti</title>
  <link rel="stylesheet" href="./CSS/style.css">
  <link rel="stylesheet" href="./Bootstrap/Css/bootstrap.min.css">
  <link rel="icon"
href="https://i.pinimg.com/originals/77/0b/80/770b805d5c99c7931366c2e8
4e88f251.png">
  <link
href="https://cdn.jsdelivr.net/npm/remixicon@4.2.0/fonts/remixicon.css
" rel="stylesheet">
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.1/css/all.min.css" />
</head>

<body>
  <nav class="navbar navbar-expand-lg nav-main ">
    <div class="container-fluid d-flex justify-content-between">
      <a class="navbar-brand" href="#">
        <i class="ri-cloudy-2-fill cloud-color"></i>
        <span class="logo-para">SkyCast</span>
      </a>
```

```

<div class=" d-flex justify-content-end"
id="navbarSupportedContent">

    <ul class="navbar-nav mb-2 mb-lg-0">

        <li class="nav-item">
            <a class="nav-link" aria-current="page" href="#about">
                <span class="about-para">About Us</span>
            </a>
        </li>

        <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                <span class="settings-para">Settings</span>
                <i class="ri-settings-5-line setting-color"></i>
            </a>
            <ul class="dropdown-menu">
                <li target="_blank"><a class="dropdown-item"
target="_blank" href="./feedback.html">Feedback</a></li>
                <li target="_blank"><a class="dropdown-item"
href="./privacy_policy.html" target="_blank">Privacy Policy</a></li>
            </ul>

        <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                <span class="help-para">Help</span>
                <i class="ri-question-line help-color"></i>
            </a>
            <ul class="dropdown-menu">
                <li><a class="dropdown-item"
href="./about_app.html">About this App</a></li>

```



```

        <i class="ri-information-2-line read"></i>
    </span>
</div>

</div>
<div class="div-right">
    <div class="video-play">
        <video autoplay loop muted
src="./Videos/mountain_wind_view.mp4"></video>
    </div>
</div>
</div>

<section class="class-4" id="about">
    <h4 class="h4-class">Our Team</h4>
    <div class="hero-4-container">

        <div class="flip">
            <div class="front"
                style="background-image: url('Images/Ayu.jpg');
                background-position:top top;
                background-size: contain;
                background-repeat: no-repeat;">
                <!-- <h1 class="text-shadow">Ayush Lingayat</h1> -->
            </div>
            <div class="back">
                <h2>Ayush Lingayat</h2>
                <p> a passionate individual with a keen interest in frontend
development and a dedication to mastering the craft. Currently
pursuing a Master of Computer Applications..
            </p>
            </div>
        </div>
    </div>
    <div class="flip">

```

```

<div class="front"
  style="background-image: url('Images/Akshita_Img.jpg');
  background-position: top top;
  background-size: contain;">
  <!-- <h1 class="text-shadow" style="color:rgb(255, 242,
213);">Akshita Warade</h1> -->
</div>
<div class="back">
  <h2>Akshita Warade</h2>
  <p>Hello I am Akshita Warade a budding enthusiast with a
passion for computer programming and an insatiable curiosity for all
things tech-related..
  </p>
</div>
</div>
<div class="flip">
  <div class="front"
    style="background-image: url('Images/shruti.jpg');
    background-position:center;
    background-size: contain;
    background-repeat: no-repeat;">
    <!-- <h1 class="text-shadow">Shruti Kulkarni</h1> -->
  </div>
  <div class="back">
    <h2>Shruti Kulkarni</h2>
    <p> I am Shruti Kulkarni a tech enthusiast with a love for
computers and a passion for dancing.I find joy in both the intricacies
of coding and the freedom of movement on the dance floor..
    </p>
  </div>
</div>
</div>

```

```

</section>

<section class="section-5">
  <div class="testimonials">

    <div class="block">

      <h2 class="h2-class">Feedback <i class="ri-feedback-fill"></i></h2>
      <h5>Why people love our weather forecast application</h5>

    </div>

    <blockquote class="block">

      <p class="test-para">"Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Eius adipisci, sed libero. Iste asperiores suscipit,
consequatur debitis animi impedit numquam facilis iusto porro labore
dolorem, maxime magni."</p>

      <footer>
        <cite><span>Alex McGee</span></cite>
      </footer>

    </blockquote>

    <blockquote class="block">

      <p class="test-para">"Totam at eius excepturi deleniti sed,
error repellat itaque omnis maiores tempora ratione dolor velit minus
porro aspernatur repudiandae labore quas adipisci esse, nulla tempore
voluptatibus cupiditate."</p>

```

```
<footer>
  <cite><span>Melissa Washington</span></cite>
</footer>
```

```
</blockquote>
```

```
<blockquote class="block">
```

```
  <p class="test-para">"Possimus deserunt nisi perferendis,
consequuntur odio et aperiam, est, dicta dolor itaque sunt laborum,
magni qui optio illum dolore laudantium similique harum. Ab provident,
porro atque."</p>
```

```
  <footer>
    <cite><span>Joseph Salazar</span></cite>
  </footer>
```

```
</blockquote>
```

```
<blockquote class="block">
```

```
  <p class="test-para">"Vel nam odio dolorem, voluptas sequi
minus quo tempore, animi est quia earum maxime. Reiciendis quae
repellat, modi non, veniam natus soluta at optio vitae in excepturi
minima eveniet dolor."</p>
```

```
  <footer>
    <cite><span>Maria Douglas</span></cite>
  </footer>
```

```
</blockquote>
```

```
<blockquote class="block">
```

```
<p class="test-para">"Accusantium at omnis vel, possimus  
fugiat explicabo necessitatibus facilis tempore voluptate, ea in, sunt  
magnam officia? Beatae reprehenderit non tempore, assumenda  
reiciendis."</p>
```

```
<footer>  
  <cite><span>Anna Maria</span></cite>  
</footer>
```

```
</blockquote>
```

```
</div>  
</section>
```

```
<section class="section-6">  
  <div class="section-main-6">  
    <div id="video-page1">  
      <h1>Stay informed about <br> current weather</h1>  
      <video src="./Videos/video_animation.mp4" autoplay loop  
muted></video>  
    </div>  
  </div>  
</section>
```

```
<section class="section-7">  
  <div class="section-main-7">  
    <div id="video-page2">  
      <h1>Stay updated with<br>weather updates</h1>  
      <video src="./Videos/cloud_video.mp4" autoplay loop  
muted></video>  
    </div>  
  </div>
```



```

</section>

<div class="section-8">
  <div class="content">
    <div class="container">
      <div class="row justify-content-center">
        <div class="col-md-10">
          <div class="row align-items-center">
            <div class="col-lg-7 mb-5 mb-lg-0">
              <h2 class="mb-5">Connect with us <br> It's easy.</h2>
              <form action="https://fabform.io/f/{insert-fabform-form-id-here}"
class="border-right pr-5 mb-5" method="post" id="contactForm"
name="contactForm">
                <div class="row">
                  <div class="col-md-6 form-group">
                    <input type="text" class="form-control" name="fname" id="fname"
placeholder="First name">
                  </div>
                  <div class="col-md-6 form-group">
                    <input type="text" class="form-control" name="lname" id="lname"
placeholder="Last name">
                  </div>
                </div>
                <div class="row">
                  <div class="col-md-12 form-group">
                    <input type="text" class="form-control" name="email" id="email"
placeholder="Email">
                  </div>
                </div>
                <div class="row">
                  <div class="col-md-12 form-group">
                    <textarea class="form-control" name="message" id="message" cols="30"
rows="5" placeholder="Write your message"></textarea>

```

[illegible]

```

        <h5>About Us</h5>
        <p>SkyCast is a weather website providing users with
concise and accurate weather forecasts. It offers real-time updates on
current weather conditions, hourly forecasts, and extended outlooks.
</p>

    </div>
    <div class="kilimanjaro_part m-top-15">
        <h5>Social Links</h5>
        <ul class="kilimanjaro_social_links">
            <li><a href="https://github.com/ayushlingayat"
target="_blank" style="text-decoration: none;"><i class="ri-github-
fill"></i>GitHub</a>
            </li>
            <li><a href="#" target="_blank" style="text-
decoration: none;"><i class="ri-instagram-fill"></i>Instagram</a>
            </li>
            <li><a href="https://www.linkedin.com/in/ayush-
lingayat/" target="_blank" style="text-decoration: none;"><i
class="ri-linkedin-fill"></i>LinkedIn</a>
            </li>
        </ul>
    </div>
</div>
<div class="col-12 col-md-6 col-lg-3">
    <div class="kilimanjaro_part">
        <h5>Weather Tags</h5>
        <ul class="kilimanjaro_widget">
            <li><a href="#">#Weather</a></li>
            <li><a href="#">#Forecast</a></li>
            <li><a href="#">#Sunshine</a></li>
            <li><a href="#">#SunnyDays</a></li>
            <li><a href="#">#ChasingStorms</a></li>
            <li><a href="#">#Thunderstorm</a></li>
            <li><a href="#">#WeatherWatch</a></li>

```

```

        <li><a href="#">#ClearSkies</a></li>
    </ul>
</div>

<div class="kilimanjaro_part m-top-15">
    <h5>Important Links</h5>
    <ul class="kilimanjaro_links">
        <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>Settings</a></li>
        <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>About
            Us</a></li>
        <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>Help</a></li>
        <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>Team</a></li>
    </ul>
</div>
</div>
<div class="col-12 col-md-6 col-lg-3">
    <div class="kilimanjaro_part">
        <h5>Latest Search</h5>
        <ul class="kilimanjaro_links">
            <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>Forcast</a>
            </li>
            <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>Weather</a></li>
            <li><a href="#"><i class="fa fa-angle-right" aria-
hidden="true"></i>SunnyWeather
                </a></li>
        </ul>
    </div>

```

```
</div>
<div class="col-12 col-md-6 col-lg-3">
    <div class="kilimanjaro_part">
        <h5>Quick Contact</h5>
        <div class="kilimanjaro_single_contact_info">
            <h5>Phone:</h5>
            <p><a href="#">+91-8668755563</a><br><a href="#">+91-7057804617</a><br><a href="#">+91-9356408197</a></p>
        </div>
        <div class="kilimanjaro_single_contact_info">
            <h5>Email:</h5>
            <p><a href="#">lingayatayush3@gmail.com</a> <br><a href="#">shrutikulkarni30499@gmail.com</a><br><a href="#">akshitawarade@gmail.com</a> </p>
        </div>
    </div>
</div>
</div>
</div>
</div>
</div>
<!-- Footer Bottom Area Start -->
<div class=" kilimanjaro_bottom_header_one section_padding_50 text-center">
    <div class="container">
        <div class="row">
            <div class="col-12">
                <p>© All Rights Reserved 2024&nbsp; <br> Developed and designed by Shruti, Ayush, Akshita</p>
            </div>
        </div>
    </div>
</div>
</div>
</div>
</div>
</div>
```

```
</div>

<script src="./JS/app.js"></script>
<script src="./testinomial.js"></script>
<script src="./Bootstrap/Js/bootstrap.bundle.min.js"></script>
</body>

</html>
```

CSS :

```
@import
url('https://fonts.googleapis.com/css2?family=Lato:ital,wght@0,100;0,300;0,400;0,700;0,900;1,100;1,300;1,400;1,700;1,900&display=swap');

@import url("https://fonts.googleapis.com/css?family=Montserrat");

*{
    margin: 0;
    padding:0;
    box-sizing: border-box;
    -webkit-box-sizing: border-box;
    -moz-box-sizing: border-box;
}

html , body{
    height: 100%;
    width: 100%;
}

.navbar-brand{
    font-weight: 600;
    letter-spacing: .1rem;
    font-size: 2rem;
    font-family: 'Lato';
}

.navbar{
    height:5vw;
}

.nav-item{
    padding:0px 70px;
    font-size: 1rem;
```

```

    font-family: 'Lato';
    font-weight: 600;
}

.nav-link:hover{
    color:rgb(211, 211, 211);
}

.cloud-color{
    color:rgb(60, 109, 255)
}

.setting-color{
    color:rgb(183, 183, 183)
}

.help-color{
    color:rgb(255, 171, 171)
}

.logo-para{
    color:rgb(0, 0, 0);
}

.settings-para{
    color:rgb(0, 0, 0);
}

.help-para{
    color:rgb(0, 0, 0);
}

.about-para{
    color:rgb(0, 0, 0);
}

/* now styling the hero section */

```



```

.hero-2-container{
  height: 90%;
  width: 100%;
  padding: 4vw;
  display: flex;
  background-color: #fff;
}

.div-left{
  width: 40%;
  height: 100%;
  /* background-color:#20232A; */
  background-color:#fff;
  margin-right:4rem;
  /* After words comment this one */
}

.div-right{
  width: 60%;
  height: 100%;
  /* background-color: #20232A; */
  /* background-color: #000000; */
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
}

.heading-h3-container{
  display: flex;
  align-items: center;
  justify-content: center;
  width: 60%;
  margin-left:76px;
}

```

```

}
.h1-hero{
  color:rgb(0, 0, 0);
  padding: 2vw;
  font-size: 66px;
  text-align: center;
  word-spacing: 1rem;
  font-weight: 700;
  letter-spacing: .1rem;
}
.h3-hero{
  color:rgb(68 68 68);
  text-align: left;
  font-size: 1rem;
  line-height: 2vw;
  position: relative;
  left: 2%;
  /* word-spacing: .3rem; */
}

.snow-h1{
  color:rgb(108, 230, 246);
}

.button-hero-container{
  display: flex;
  align-items: center;
  justify-content: center;
  width: 50%;
  margin-left:100px;
  margin-top:24px;
}

```

```
.download-bold{
    font-weight: 500;
    color:white;
}

.apple-color{
    color:white;
}

.button{
    background-color: #27727D;
    width: 200px;
    height: 70px;
    /* height: 40px; */
    border-radius: 50px;
    border:none;
}

.read{
    color:rgb(142, 170, 255);
}

.read-more-hero{
    font-weight: 700;
    color: rgb(0, 0, 0);
    margin-left:151px;
    cursor:pointer;
    text-decoration: none;
}

.download-a{
    color: #fff;
    text-decoration: none;
```

```

}

.div-hero-read-more{
    margin-top:24px;
}

video{

    height: 100%;
    width: 100%;
    object-fit: cover;
}

/* Hero 3 container */

.hero-3-container{
    width: 100%;
    height:75%;
    overflow-x: hidden;
    background-image: url('./Images/black.jpg');
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    /* overflow-y: hidden; */
    /* opacity: 0.9; */
}

.search-div{
    display: flex;
    align-items: center;
    justify-content: center;

```

```

    height: 10%;
    padding: 2rem;
    margin: 1%;
    /* background-color: red; */
}

#search{
    border-radius: 5px;
    height: 37px;
}

/* Hero 4 Container */

.class-4{
    margin: 0px;
    /* height: 55%; */
    width: 100%;
    /* background-color: rgb(0, 0, 0); */
}

.h4-class{
    text-transform: uppercase;
    /* color: white; */
    font-size: 2rem;
    text-decoration: underline;
    text-align: center;
    /* margin-top: 8px; */
}

.hero-4-container{

    display: flex;

```

```

    align-items: center;
    justify-content: space-between;
    padding: 2rem;
    /* background-color: red; */
}

h1 {
    font-size: 2.2em;
}

.flip {
    position: relative;
    >.front,
    >.back {
        display: block;
        transition-timing-function: cubic-bezier(.175, .885, .32,
1.275);
        transition-duration: .5s;
        transition-property: transform, opacity;
    }

    >.front {
        transform: rotateY(0deg);
        cursor: pointer;
    }

    >.back {
        position: absolute;
        opacity: 0;
        top: 0px;
        left: 0px;
        width: 100%;
        height: 100%;
        transform: rotateY(-180deg);
    }
}

```

```

        cursor: pointer;
    }
    &:hover {
        >.front {
            transform: rotateY(180deg);
        }
        >.back {
            opacity: 1;
            transform: rotateY(0deg);
        }
    }
    &.flip-vertical {
        >.back {
            transform: rotateX(-180deg);
            cursor: pointer;
        }
        &:hover {
            >.front {
                transform: rotateX(180deg);
                cursor: pointer;
            }
            >.back {
                transform: rotateX(0deg);
                cursor: pointer;
            }
        }
    }
}

.flip {
    position: relative;
    display: inline-block;
    margin-right: 2px;

```

```

margin-bottom: 1em;
width: 400px;
>.front,
>.back {
    display: block;
    /* color: white; */
    color: rgb(0, 0, 0);
    width: inherit;
    background-size: cover!important;
    background-position: center!important;
    height: 220px;
    padding: 1em 2em;
    /* background: #313131; */
    background: white;
    border-radius: 10px;
    p {
        font-size: 0.9125rem;
        line-height: 160%;
        color: #000000;
    }
}
}

```

```

.text-shadow {
    text-shadow: 1px 1px rgba(0, 0, 0, 0.04), 2px 2px rgba(0, 0, 0, 0.04), 3px 3px rgba(0, 0, 0, 0.04), 4px 4px rgba(0, 0, 0, 0.04), 0.125rem 0.125rem rgba(0, 0, 0, 0.04), 6px 6px rgba(0, 0, 0, 0.04), 7px 7px rgba(0, 0, 0, 0.04), 8px 8px rgba(0, 0, 0, 0.04), 9px 9px rgba(0, 0, 0, 0.04), 0.3125rem 0.3125rem rgba(0, 0, 0, 0.04), 11px 11px rgba(0, 0, 0, 0.04), 12px 12px rgba(0, 0, 0, 0.04), 13px 13px rgba(0, 0, 0, 0.04), 14px 14px rgba(0, 0, 0, 0.04), 0.625rem 0.625rem rgba(0, 0, 0, 0.04), 16px 16px rgba(0, 0, 0, 0.04), 17px 17px rgba(0, 0, 0, 0.04), 18px 18px rgba(0, 0, 0, 0.04), 19px 19px rgba(0, 0, 0, 0.04), 1.25rem 1.25rem rgba(0, 0, 0, 0.04);
}

```



```

}

/* Testimonial Part */

.section-5{
    height: 100%;
    width: 100%;
    padding:4vw;
}

.testimonials {
    margin: 4em auto;
    width: 1100px;
    max-width: 90%;
}

.testimonials .block {
    display: block;
    margin: 0;
}

@media only screen and (min-width: 650px) {
    .testimonials .block {
        float: left;
        width: 50%;
        height: 300px;
    }
}

@media only screen and (min-width: 1000px) {
    .testimonials .block {
        width: 33.3333333333%;
        height: 280px;
    }
}

```

```

}
.testimonials .block:nth-child(n+2) {
    padding: 1.5em;
}
.testimonials .block:nth-child(2){
    background-color:rgb(236 75 134);
}
.testimonials .block:nth-child(4) {
    background-color: #53687b;
}
.testimonials .block:nth-child(3){
    background-color:#269c66;
}
.testimonials .block:nth-child(5) {
    background-color: #03a9f4;
}
.testimonials .block:nth-child(6) {
    background-color: #da404f;
}
.testimonials .block p {
    margin: 0;
    font-size: 16px;
    line-height: 28px;
    font-weight: 300;
    color: #fff;
}
.testimonials .block cite span {
    display: block;
    margin-top: 2em;
    font-size: 14px;
    font-weight: 600;
    font-style: normal;
    color: #fff;
}

```

```

.testimonials h2 {
    margin: 0 0 0.5em;
    font-size: 19px;
    letter-spacing: 2px;
    line-height: 20px;
    font-weight: 700;
    /* text-transform: uppercase; */
    color: #444;
}

.testimonials h5 {
    margin-top: 0;
    font-size: 2vw;
    line-height: 50px;
    font-weight: 500;
    color: #000;
}

/* Section 6 */

.section-main-6{
    height: 100%;
    width: 100%;
    position: relative;
    overflow: hidden;
}

#video-page1{
    position: relative;
    width: 100vw;
    height: 100vh;
}

#video-page1>video{
    height: 100%;

```

```

    width: 100%;
    object-fit: cover;
}
#video-page1>h1{
    font-size: 2vw;
    color:#223c5f;
    font-weight: 400;
    position: absolute;
    bottom:50%;
    left:57%;
    transform:translateX(-50%);
    white-space: nowrap;
    width: 40%;
    font-weight: 500;
}
.section-main-7{
    height: 30%;
    width: 100%;
    position:relative;
    overflow:hidden;
}

#video-page2{
    position: relative;
    width: 100vw;
    height: 100vh;
    padding:4vw;
}

#video-page2>video{
    height: 100%;
    width: 100%;
    object-fit: cover;
}

```

```
}  
#video-page2>h1{  
    font-size: 2vw;  
    color:#ffffff;  
    font-weight: 400;  
    position: absolute;  
    bottom:70%;  
    left:30%;  
    transform:translateX(-50%);  
    white-space: nowrap;  
    width: 40%;  
    font-weight: 500;  
}  
  
/* Section 8 */  
.section-8{  
    height: 80%;  
    width: 100%;  
}  
  
.form-control{  
    margin-top: 1vw;  
}  
  
[type="submit"]:not(:disabled), button:not(:disabled) {  
    cursor: pointer;  
    margin-top: 1vw;  
}  
  
.mb-5 {  
    margin-bottom: 1rem !important;  
}  
  
/* Section-9 Footer part */
```

```

.section-9-footer{
    width: 100%;
    height: 20%;
    color:#000;
    background-color: #fff;
}

.footer_sec {
    width: 100%;
    padding: 80px 0;
}
a{
    text-decoration:none;
}
.foo_top_header_one {
    background-color: #15151e;
    color: #fff;
    border-top: 1px solid black;
}
.section_padding_100_70 {
    padding-top: 2vw;
    padding-bottom: 2vw;
}
.foo_top_header_one {
    background-color: #fff;
}
.kilimanjaro_part {
    margin-bottom: 30px;
}
.foo_top_header_one .kilimanjaro_part > h5 {
    color: #fff;
}
.kilimanjaro_part h4,
.kilimanjaro_part h5 {

```

```

    margin-bottom: 30px;
}
.kilimanjaro_single_contact_info > p,
.kilimanjaro_single_contact_info > h5,
.kilimanjaro_blog_area > a,
.foo_top_header_one .kilimanjaro_part > p {
    color: rgba(0, 0, 0);
    font-weight: 400;
}
p,
ul li,
ol li {
    font-weight: 300;
}
ul {
    margin: 0;
    padding: 0;
}
.kilimanjaro_bottom_header_one {
    background-color: #111;
}
.section_padding_50 {
    padding: 15px 0;
}
.kilimanjaro_bottom_header_one p {
    color: #fff;
    margin: 0;
}
p,
ul li,
ol li {
    font-weight: 300;
}
.kilimanjaro_bottom_header_one a {

```

```

    color: inherit;
    font-size: 14px;
}
a,
h1,
h2,
h3,
h4,
h5,
h6 {
    font-weight: 400;
}
.m-top-15 {
    margin-top: 15px;
}
ul {
    margin: 0;
    padding: 0;
}
.kilimanjaro_widget > li {
    display: inline-block;
}
p,
ul li,
ol li {
    font-weight: 300;
}
ol li,
ul li {
    list-style: outside none none;
}
.kilimanjaro_widget a {
    border: 1px solid #333;
    border-radius: 6px;

```



```

    color: #000;
    display: inline-block;
    font-size: 13px;
    margin-bottom: 4px;
    padding: 7px 12px;
    text-decoration: none;
}

.kilimanjaro_links a {
    border-bottom: 1px solid #333;
    color: rgb(0 0 0);
    display: block;
    font-size: 13px;
    margin-bottom: 5px;
    padding-bottom: 10px;
    text-decoration: none;
}

.top-15 {
    margin-top: 15px;
}

.foo_top_header_one .kilimanjaro_part > h5 {
    color: #000;
    font-size: 18px;
    font-weight: bold;
}

.kilimanjaro_part h4,
.kilimanjaro_part h5 {
    margin-bottom: 20px;
}

.kilimanjaro_social_links > li {
    display: inline-block;
}

p,
ul li,

```

```

ol li {
    font-weight: 300;
}
.kilimanjaro_social_links a {
    border: 1px solid #333;
    border-radius: 6px;
    color: #000;
    display: inline-block;
    font-size: 13px;
    margin-bottom: 3px;
    padding: 7px 12px;
}
.kilimanjaro_blog_area .kilimanjaro_date {
    color: #27ae60;
    font-size: 13px;
    margin-bottom: 5px;
}
.kilimanjaro_blog_area > p {
    color: rgba(255, 255, 255, 0.5);
    line-height: 1.3;
    margin-bottom: 0;
}
.kilimanjaro_works > a {
    display: inline-block;
    /* float: left; */
    position: relative;
    width: 33.33333333%;
    z-index: 1;
}
.kilimanjaro_thumb {
    left: 0;
    position: absolute;
    top: 0;
    width: 75px;

```

```

}
.kilimanjaro_links a i {
    padding-right: 10px;
}
.footer_area {
    position: relative;
    z-index: 1;
}
.footer_bottom p > i,
.footer_bottom p > a:hover {
    color: #27ae60;
}
.social_links_area {
    border-bottom: 1px solid rgba(255, 255, 255, 0.2);
    padding: 50px 0 30px 0;
    text-align: center;
    position: relative;
    z-index: 1;
}
.social_links_area > a:hover {
    color: #27ae60;
}
.inline-style .social_links_area > a:hover {
    background-color: transparent;
    color: #27ae60;
    border: 0px solid transparent;
}
.single_feature:hover .feature_text h4 {
    color: #27ae60;
}
.kilimanjaro_blog_area {
    border-bottom: 1px solid #333;
    margin-bottom: 15px;
    padding: 0 0 15px 90px;
}

```

```

    position: relative;
    z-index: 1;
}
.kilimanjaro_links a {
    border-bottom: 1px solid #333;
    color: rgba(0,0,0);
    display: block;
    font-size: 13px;
    margin-bottom: 5px;
    padding-bottom: 10px;
}

.kilimanjaro_thumb img {
    width: 100%;
}
.kilimanjaro_single_contact_info a {
    color: #000;
    text-decoration: none;
    margin-top: 0vw;
    padding: 1vw;
}
.kilimanjaro_widget li a,
.kilimanjaro_social_links a {
    transition: 0.3s ease-in-out;
}
.kilimanjaro_widget li a:hover,
.kilimanjaro_social_links a:hover {
    background: #27727D;
    color: #fff;
}
.kilimanjaro_links li a:hover {
    color: #27727D;
    font-weight: 500;
}

```

```

}
#scroll-top {
  font-size: 23px;
  line-height: 0;
  border-radius: 100%;
  -webkit-transition: all 0.3s;
  -moz-transition: all 0.3s;
  -ms-transition: all 0.3s;
  -o-transition: all 0.3s;
  transition: all 0.3s;
}
#scroll-top:hover {
  background: #f9a310;
  color: #000;
}
.header .sticky-header.fixed .logo {
  max-width: 155.25px;
}

.list li.active {
  font-weight: bold !important;
}

.col12 >p{
  text-decoration: none;
}

```

JAVASCRIPT :

```
const userTab = document.querySelector("[data-userWeather]");
const searchTab = document.querySelector("[data-searchWeather]");
const userContainer = document.querySelector(".weather-container");

const grantAccessContainer = document.querySelector(".grant-location-
container");
const searchForm = document.querySelector("[data-searchForm]");
const loadingScreen = document.querySelector(".loading-container");
const userInfoContainer = document.querySelector(".user-info-
container");

let oldTab = userTab;
const API_KEY = "95ddb9c91fc16fca239fa88014d823a7";
oldTab.classList.add("current-tab");
getfromSessionStorage();

function switchTab(newTab) {
    if(newTab !== oldTab) {
        oldTab.classList.remove("current-tab");
        oldTab = newTab;
        oldTab.classList.add("current-tab");

        if(!searchForm.classList.contains("active")) {
            userInfoContainer.classList.remove("active");
            grantAccessContainer.classList.remove("active");
            searchForm.classList.add("active");
        }
        else {

            searchForm.classList.remove("active");
            userInfoContainer.classList.remove("active");
```

```

        getfromSessionStorage();
    }
}

userTab.addEventListener("click", () => {

    switchTab(userTab);
});

searchTab.addEventListener("click", () => {

    switchTab(searchTab);
});

function getfromSessionStorage() {
    const localCoordinates = sessionStorage.getItem("user-
coordinates");
    if(!localCoordinates) {

        grantAccessContainer.classList.add("active");
    }
    else {
        const coordinates = JSON.parse(localCoordinates);
        fetchUserWeatherInfo(coordinates);
    }
}

async function fetchUserWeatherInfo(coordinates) {
    const {lat, lon} = coordinates;

    grantAccessContainer.classList.remove("active");

```

```

loadingScreen.classList.add("active");

//API CALL
try {
    const response = await fetch(
        `https://api.openweathermap.org/data/2.5/weather?lat=${lat}
        &lon=${lon}&appid=${API_KEY}&units=metric`
    );
    const data = await response.json();

    loadingScreen.classList.remove("active");
    userInfoContainer.classList.add("active");
    renderWeatherInfo(data);
}
catch(err) {
    loadingScreen.classList.remove("active");

}

}

function renderWeatherInfo(weatherInfo) {

    const cityName = document.querySelector("[data-cityName]");
    const countryIcon = document.querySelector("[data-countryIcon]");
    const desc = document.querySelector("[data-weatherDesc]");
    const weatherIcon = document.querySelector("[data-weatherIcon]");
    const temp = document.querySelector("[data-temp]");
    const windspeed = document.querySelector("[data-windspeed]");
    const humidity = document.querySelector("[data-humidity]");
    const cloudiness = document.querySelector("[data-cloudiness]");

```



```

    console.log(weatherInfo);

    cityName.innerText = weatherInfo?.name;
    countryIcon.src =
`https://flagcdn.com/144x108/${weatherInfo?.sys?.country.toLowerCase()}
.png`;
    desc.innerText = weatherInfo?.weather?.[0]?.description;
    weatherIcon.src =
`http://openweathermap.org/img/w/${weatherInfo?.weather?.[0]?.icon}.pn
g`;
    temp.innerText = `${weatherInfo?.main?.temp} °C`;
    windspeed.innerText = `${weatherInfo?.wind?.speed} m/s`;
    humidity.innerText = `${weatherInfo?.main?.humidity}%`;
    cloudiness.innerText = `${weatherInfo?.clouds?.all}%`;

}

function getLocation() {
    if(navigator.geolocation) {
        navigator.geolocation.getCurrentPosition(showPosition);
    }
    else {

    }
}

function showPosition(position) {

    const userCoordinates = {
        lat: position.coords.latitude,
        lon: position.coords.longitude,

```

```

    }

    sessionStorage.setItem("user-coordinates",
JSON.stringify(userCoordinates));
    fetchUserWeatherInfo(userCoordinates);
}

const grantAccessButton = document.querySelector("[data-
grantAccess]");
grantAccessButton.addEventListener("click", getLocation);

const searchInput = document.querySelector("[data-searchInput]");

searchForm.addEventListener("submit", (e) => {
    e.preventDefault();
    let cityName = searchInput.value;

    if(cityName === "")
        return;
    else
        fetchSearchWeatherInfo(cityName);
})


async function fetchSearchWeatherInfo(city) {
    loadingScreen.classList.add("active");
    userInfoContainer.classList.remove("active");
    grantAccessContainer.classList.remove("active");

    try {
        const response = await fetch(
            `https://api.openweathermap.org/data/2.5/weather?q=${city}
&appid=${API_KEY}&units=metric`
        );
    }

```

```
    const data = await response.json();
    loadingScreen.classList.remove("active");
    userInfoContainer.classList.add("active");
    renderWeatherInfo(data);
  }
  catch(err) {
    console.log(err);
  }
}
```

4. User Interface Screen

 SkyCast

[About Us](#)

[Settings](#) ⚙️

[Help](#) 📞

Weather & Forecast Application

Use weather information and get weather
information daily
freely experience it today

 Check Weather

[Read More About it](#) ⓘ



OUR TEAM



Feedback

Why people love our weather forecast application

"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eius adipisci, sed libero. Iste asperiores suscipit, consequatur debitis animi impedit numquam facilis iusto porro labore dolore, maxime magni."

Alex McGee

"Totam at eius excepturi deleniti sed, error repellat itaque omnis maiores tempora ratione dolor velit minus porro aspernatur repudiandae labore quas adipisci esse, nulla tempore voluptatibus cupiditate."

Melissa Washington

"Possimus deserunt nisi perferendis, consequuntur odio et aperiam, est, dicta dolor itaque sunt laborum, magni qui optio illum dolore laudantium similique harum. Ab provident, porro atque."

Joseph Salazar

"Vel nam odio dolorem, voluptas sequi minus quo tempore, animi est quia earum maxime. Reiciendis quae repellat, modi non, veniam natus soluta at optio vitae in excepturi minima eveniet dolor."

Maria Douglas

"Accusantium at omnis vel, possimus fugiat explicabo necessitatibus facilis tempore voluptate, ea in, sunt magnam officia? Beatae reprehenderit non tempore, assumenda reiciendis."

Anna Maria

Connect with us It's easy.

Send Message

Let's talk about weather related things.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nihil deleniti itaque similique magni. Magni, laboriosam perferendis maxime!

[Read more](#)



About Us

SkyCast is a weather website providing users with concise and accurate weather forecasts. It offers real-time updates on current weather conditions, hourly forecasts, and extended outlooks.

Social Links

[GitHub](#)

[Instagram](#)

[inLinkedIn](#)

Weather Tags

[#Weather](#)

[#Forecast](#)

[#Sunshine](#)

[#SunnyDays](#)

[#ChasingStorms](#)

[#Thunderstorm](#)

[#WeatherWatch](#)

[#ClearSkies](#)

Latest Search

- > Forecast
- > Weather
- > SunnyWeather

Quick Contact

Phone:

+91-8668755563

+91-7057804617

+91-9356408197

Email:

lingayatayush3@gmail.com

shrutikulkarni30499@gmail.com

akshitawarade@gmail.com

Important Links

- > Settings
- > About Us
- > Help
- > Team

5. CONCLUSION

In conclusion our weather application provides a comprehensive and user-friendly platform for accessing accurate and up-to-date weather information. With features such as current weather conditions and forecasts the users can plan their activities with confidence and stay informed about changing weather patterns. The air quality information and customizable options enhances the utility and relevance of the application by prioritizing accuracy and user engagement Our weather application aims to be a trusted resource for individuals, businesses, and communities.

6. BIBLIOGRAPHY

- HTML and CSS: Design and Build Websites-By Jon Duckett
- The Essential Guide to CSS and HTML Web Design (Essentials)-By Craig Grannel
- Smashing CSS: Professional Techniques for Modern Layout-By Eric Meyer
- New Features And Good Practices-By Josh Lockhart
- Guide-By Larry Ulman - JavaScript Mastery
- Learn JavaScript VISUALLY-By Ivelin Demirov.

THANK YOU