

Project Development Phase

Sprint 2

Team ID	PNT2022TMID03363
Project Name	Predicting the energy output of wind turbine based on weather condition

Predict.html

```
<html>
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0"
/> <meta http-equiv="X-UA-Compatible" content="ie=edge" />
<link rel="stylesheet"
href="https://use.fontawesome.com/releases/v5.7.2/css/all.css"
integrity="sha384-
fNmOCqbTIWIlj8LyTjo7mOUStjsKC4pOpQbqyi7RrhN7udi9RwhKkMHpvLbH
G 9Sr" crossorigin="anonymous" />
<link href="https://fonts.googleapis.com/css?family=Dosis" rel="stylesheet"
/> <link rel="stylesheet" href="{ { url_for('static', filename='css/style.css')
}}"> <title>Wind Energy Prediction</title>
<style>
table {
    width: 100%;
    border-collapse: collapse;
}
```

```
.card {  
    margin-right: auto;  
    margin-left: 12%;  
    width: 350px;  
    box-shadow: 0 15px 25px rgba(129, 124, 124,  
    0.2); border-radius: 10px;  
    backdrop-filter: blur(14px);  
    background-color: rgba(255, 255, 255,  
    0.5); padding: 15px;  
    text-align: center;  
}
```

```
.second{  
    top:80px;  
    bottom:0px;  
    margin:0px;  
    left: 0px;  
    right: 0px;  
    position: fixed;  
    padding: 0px;  
    width: 100%;  
    font-family:Georgia, serif;  
    color:black;  
    font-size:20px;  
}
```

```
.inside{  
    top:80px;
```

```
bottom:0px;

margin:0px;
left: 60%;

right: 0%;

position: fixed;

padding-left: 40px;

padding-top:8%;

padding-right:40px;

font-family:Georgia, serif;

color:#96f400;

font-size:20px;

text-align:justify;
}

.myButton{

border: none;

text-align: center;

cursor: pointer;

text-transform: uppercase;

outline: none;

overflow: hidden;

color: #fff;

font-weight: 700;

font-size: 12px;

background-color: #183a1d;

padding: 10px 15px;

margin: 0 auto;
```

```
        box-shadow: 0 5px 15px rgba(0,0,0,0.20);
        margin-left:17%;
    }
    input {
        width:50%;
        margin-bottom: 10px;
        background: #e1eedd;
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: #6c493a;
        text-shadow:
        white; border:
        #6c493a;
        border-radius: 4px;
        box-shadow: white; }
    ::placeholder {
        color: black;
        opacity: 1;
    }
    .navbar
    {
        display: flex;
        align-items:
        center; padding:
```

```
20px;
padding-left: 50px;
padding-right:
30px; padding-top:
25px; line-height:
1.3;
}
.left{
    top:80px;
    bottom:0px;
    margin:0px;
    left: 0%;
    right: 45.5%;
    position: fixed;
    padding-left: 10%;
    padding-top:5%;
    padding-right:40px;
    font-family:bold,Georgia, serif;
    color:rgb(255 204 0);;
    font-size:25px;
    align:center;
}
select {
width:50%;
margin-bottom: 10px;
background: white;
```

```
border: none;
outline: none;
padding: 10px;
font-size: 13px;
color: #183a1d;
text-shadow: white;
border: #6c493a;
border-radius: 40px;
box-shadow: white;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }
table, th, td {
border: 1px solid rgb(86, 72, 128);
border-collapse: collapse;
color: #000ff0;
}
@media screen and (max-width: 500px) {
.left,
.second,
.third {
width: 70%;
}
}
</style>
</head>
```

```
<body>

<div class="full-page">

<div class="navbar">

<div>

<a href="{{url_for('home')}}">Wind
Energy<br><label>&nbsp;&nbsp; Renewable Energy is Our Fate!</label></a>

</div>

<nav>
<ul id='MenuItems'>

<li><a href="{{url_for('predict')}}">Predict</a></li>
<li><a href="{{url_for('about')}}">About</a></li>
<li><a href={{url_for('services')}}>Services</a></li>
<li><a href={{url_for('contact')}}>Contact</a></li>

</ul>

</nav>

</div>

</div>

<div class="second">

<div class="left">

<p style="padding: 10px; border: 3px solid rgb(148, 53, 16); width: 600px;">Give
your city name to know the weather conditions</p>

<div style="margin-left:25%">

<form action="{{ url_for('windapi')}}" method="post" >

<select name="city" required >

<option value="" selected>select City</option>

<option value = "Agartala" > Agartala </option>

<option value = "Aizawl" > Aizawl </option>
```

<option value ="Bengaluru" > Bengaluru </option>
<option value ="Bhopal" > Bhopal </option>
<option value ="Bhubaneswar" > Bhubaneswar </option>
<option value ="Chandigarh" > Chandigarh </option>
<option value ="Chennai" > Chennai </option>
<option value ="Daman" > Daman </option>
<option value ="Dehradun" > Dehradun </option>
<option value ="Delhi" > Delhi </option>
<option value ="Dispur" > Dispur </option>
<option value ="Gandhinagar" > Gandhinagar </option>
<option value ="Gangtok" > Gangtok </option>
<option value ="Hyderabad" > Hyderabad </option>
<option value ="Imphal" > Imphal </option>
<option value ="Itanagar" > Itanagar </option>
<option value ="Jaipur" > Jaipur </option>
<option value ="Kavaratti" > Kavaratti </option>
<option value ="Kohima" > Kohima </option>
<option value ="Kolkata" > Kolkata </option>
<option value ="Lucknow" > Lucknow </option>
<option value ="Mumbai" > Mumbai </option>
<option value ="Panaji" > Panaji </option>
<option value ="Patna" > Patna </option>
<option value ="Pondicherry" > Pondicherry </option>
<option value ="Port Blair" > Port Blair </option>
<option value ="Raipur" > Raipur </option>
<option value ="Ranchi" > Ranchi </option>


```

<option value ="Shillong" > Shillong </option>
<option value ="Shimla" > Shimla </option>
<option value ="Silvassa" > Silvassa </option>
<option value ="Srinagar" > Srinagar </option>
<option value ="Thiruvananthapuram"> Thiruvananthapuram </option>
<option value ="Tirupati" > Tirupati </option>

</select><br><br>

<div style="margin-left:-20%"><button type="submit" class="myButton" >Check
the Weather Conditions</button></div>
</form>

</div>

<br>

<div class="card">

<table style="margin-left:2%; text-align:center;
border-spacing:25px;"> <tr>

<td colspan="2" style="font-size:25px;">The weather conditions of the city
are</td>

</tr>

<tr>

<td>Temperature</td><td>{{ temp }}</td>

</tr>

<tr>

<td>Humidity</td><td>{{ humid }}</td>

</tr>

<tr>

<td>Pressure</td><td>{{ pressure }}</td>

```

```
</tr>

<tr>

<td>Wind Speed</td><td>{{ speed }}</td>

</tr>

</table>

</div>

</div>

<div class="inside">

<div style="font-size:23px;font-weight:bold;">Predict the Wind
Energy!!</div> <br><br>

<form action="{{ url_for('y_predict')}}" method="post">

<input type="text" name="theo" placeholder="Theoretical Power in KWh"
required="required" />

<input type="text" name="wind" placeholder="Wind Speed in m/s"
required="required" /><br><br>

<button type="submit" class="myButton"
>Predict</button> </form>

<br>

<br>

{{ prediction_text }}

</div>

</div>

</body>

</html>
```

Style.css

```
*  
  
{  
    margin: 0;  
    padding: 0;  
    box-sizing: border-box;  
}  
  
.full-page  
{  
    height: 100%;  
    width: 100%;  
    background-image: linear  
    gradient(rgba(0,0,0,0.1),rgba(0,0,0,0.2)),url("/static/images/windmill.jpg")  
    ; background-position: center;  
    background-size: cover;  
    position: absolute;  
}  
  
.navbar  
{  
    display: flex;  
    align-items: center;  
    padding: 20px;  
    padding-left: 50px;  
    padding-right: 30px;  
    padding-top: 30px;
```

```
    line-height: 0.8;
}
nav
{
    flex: 1;
    text-align: right;
}
nav ul
{
    display: inline-block;
    list-style: none;
}
nav ul li
{
    display:
    inline-block;
    margin-right: 50px;
}
nav ul li a
{
    text-decoration:
    none; font-size:
    20px;
    color: white;
    font-family:
    sans-serif; }
```

nav ul li button

```
{  
    font-size: 20px;  
    color: white;  
    outline: none;  
    border: none;  
    background:  
transparent; cursor:  
pointer;  
    font-family:  
sans-serif; }
```

nav ul li button:hover

```
{  
    color: aqua;  
}
```

nav ul li a:hover

```
{  
    color: aqua;  
}
```

.navbar a:hover

```
{  
    color: aqua;  
}
```

.navbar a

```
label:hover {  
    color: aqua;
```

```
}
```

```
a
```

```
{
```

```
text-decoration:
```

```
none; color: white;
```

```
font-size: 30px;
```

```
}
```

label

```
{
```

```
text-decoration:
```

```
none; color: white;
```

```
font-size: 15px;
```

```
}
```

Prediction Page:

