

# Project Development Phase

## Sprint 1

Team ID	PNT2022TMID15599
Project Name	Predicting the energy output of wind turbine based on weather condition

### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Wind Energy Prediction</title>
<link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
<!--we had linked our css file-->
</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>
</body>
</html>
```

## **About.html**

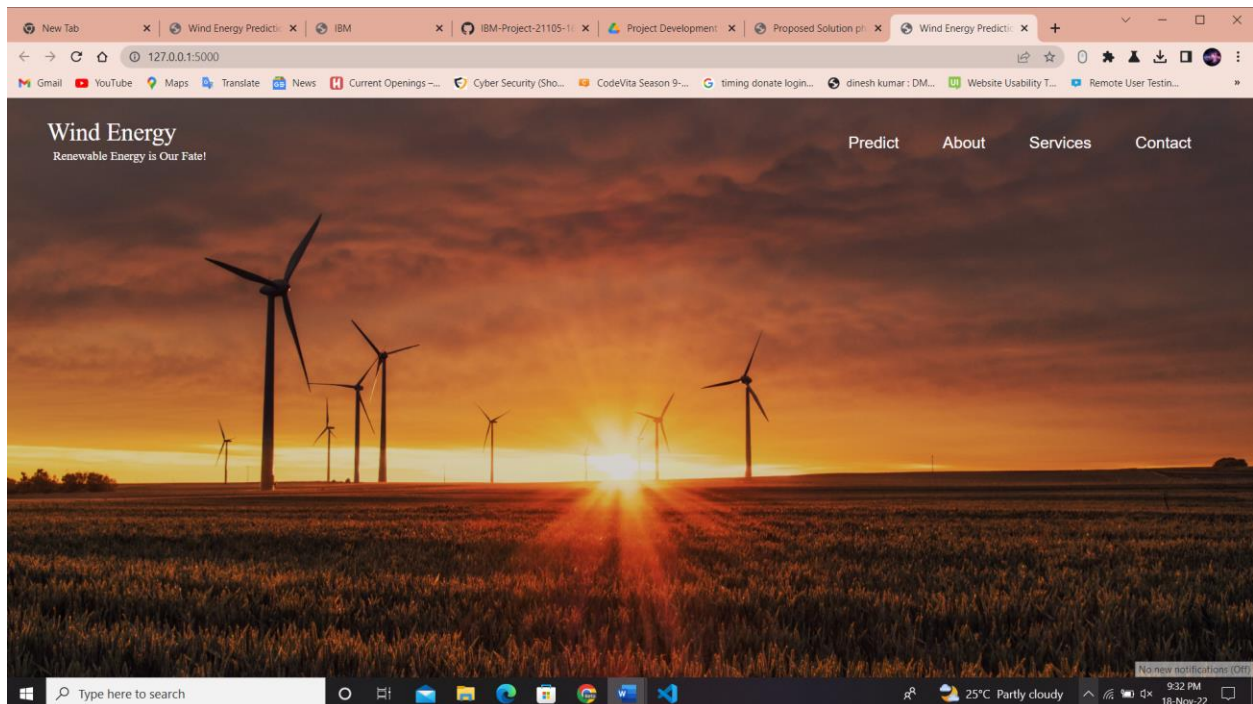
```
<html>
<head>
<title>Wind Energy Prediction</title>
<link rel="stylesheet" href="{ { url_for('static', filename='css/style.css') } }">
<style>
    .header {
        top:0px;
        margin:0px;
        left: 0px;
        right: 0px;
        position: fixed;
        background: #6c493a;
```

```
    color: white;
    overflow: hidden;
    padding-bottom: 30px;
    font-size: 2.25vw;
    width: 100%;
    padding-left: 10px;
    text-align: right;
    padding-top: 20px;
}
.second{
    top: 80px;
    bottom: 0px;
    margin: 0px;
    left: 0px;
    right: 0px;
    position: fixed;
    padding: 0px;
    width: 100%;
    background-image: url({ { url_for('static', filename='/images/m123.gif') } });
    background-repeat: no-repeat;
    background-size: contain;
}
.inside{
    top: 80px;
    bottom: 0px;
    margin: 0px;
```

```
left: 45%;
right: 0%;
position: fixed;
padding-left: 40px;
padding-top: 8%;
padding-right: 40px;
background-color: #F2D19A;
font-family: Georgia, serif;
color: black;
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: #6c493a;
padding: 10px 15px;
margin: 0 auto;
box-shadow: 0 5px 15px rgba(0,0,0,0.20);
```

```
}  
</style>  
</head>  
<body>  
<div class="header">Predicting The Energy Output Of Wind Turbine Based On  
Weather Condition</div>  
<a href="{ { url_for('home') } } ">Wind  
Energy<br><label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~Renewable Energy is Our Fate!</label></a>  
<div class="second">  
  
<div class="inside">Renewable energy, such as wind and solar energy, plays an  
increasing role in the supply of energy worldwide. This trend will continue because  
global energy demand is increasing, and the use of nuclear power and traditional  
sources of energy such as coal and oil is unsafe and leads to a large amount of CO2  
emission. Wind energy is a key player in the field of renewable energy. In Europe,  
the capacity of wind energy production has doubled from 2009 to 2010. <br><br>  
However, levels of production of wind energy are hard to predict as they rely on  
potentially unstable weather conditions present at the wind farm. In particular,  
wind speed is crucial for energy production based on wind, and it may vary  
drastically over time. Energy suppliers are interested in accurate predictions, as  
they can avoid overproduction by coordinating the collaborative production of  
traditional power plants and weather-dependent energy sources. The energy can be  
predicted based on the power curve and the windspeed.  
  
<br>  
  
<br>  
  
<br>  
<a href="{ { url_for('predict') } } "><button type="button" class="myButton" >Want  
to predict the energy??</button></a>  
  
</div>  
  
</div>  
  
</body>  
  
</html>
```

## Home Page:



## About Page:

