NOISE POLLUTION MONITORING

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PHASE 4 :

Development part 2:

To build the real-time noise level updates for noise pollution monitoring.

Technologies needed :

- Wokwi
- Thingspeak
- Infinityfree (For domain)

Languages used :

- HTML
- CSS
- JavaScript
- Angular framework

HTML:

HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page.

CSS:

CSS is the acronym of “Cascading Style Sheets”. CSS is a computer language for laying out and structuring web pages (HTML or XML). This language contains coding elements

and is composed of these “cascading style sheets” which are equally called CSS files.

JavaScript:

Javascript (JS) is a scripting languages, primarily used on the Web. It is used to enhance HTML pages and is commonly found embedded in HTML code. JavaScript is an interpreted language. Thus, it doesn't need to be compiled.

Source code :

HTML :

```
<html>
<head>
   <title>
      Polution Project
   </title>
</head>
<body bgcolor="#d5aff0">


      <center>
         <table bgcolor="black" width="50%">
            <tr>
               <tH><font size="25" color="#e01ba5">Pollution Control</font></tH>
            </tr>
```

```
        </table>
      <tr>
        <th bgcolor="yellow">Sound Pollution</th>
            </tr>
       </table>
<Html>
```

CSS :

```
    <!DOCTYPE html>
<html>
<head>
  <title>Noise Pollution Monitoring</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f0f0;
      text-align: center;
    }

    h1 {
      color: #333;
    }

    #noiseData {
```

```
            background-color: #fff;
            padding: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
            margin: 20px;
        }

        h2 {
            color: #333;
        }

        #currentNoise {
            font-size: 24px;
            color: #0077b6;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h1>Noise Pollution Monitoring</h1>

    <div id="noiseData">
```

```
        <h2>Current Noise Level: <span id="currentNoise">Loading...</span>
dB</h2>
    </div>

    <script>
        // Your JavaScript code here
    </script>
</body>
</html>
```

Javascript :

```
Var api_key =”DVRJHBHU6XIIN7UY”
Var channel_id=”2066744”
    <title>Noise Pollution Monitoring</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f0f0f0;
            text-align: center;
        }

        h1 {
            color: #333;
        }
```

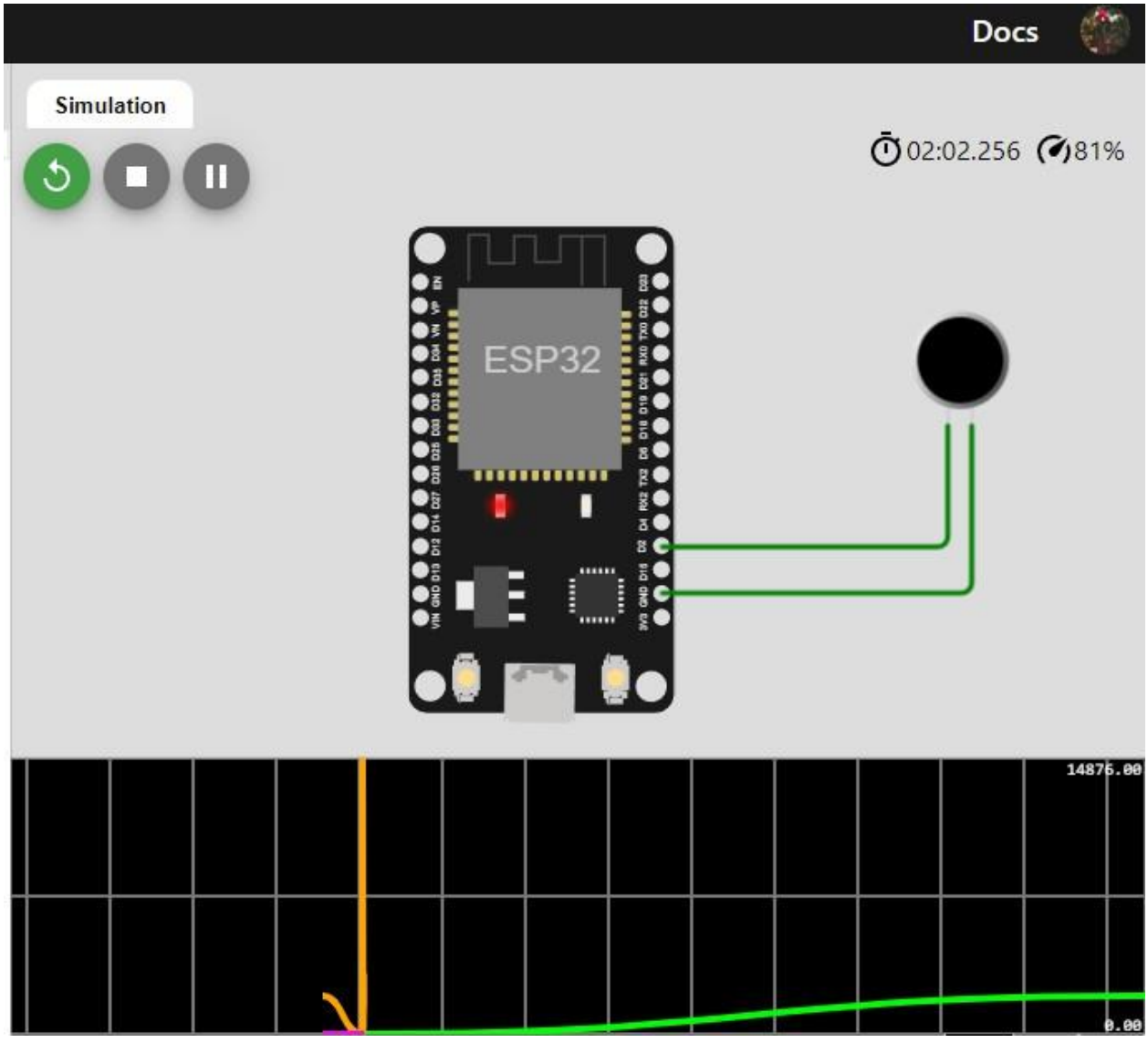
```
        #noiseData {
            background-color: #fff;
            padding: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
            margin: 20px;
        }

        h2 {
            color: #333;
        }

        #currentNoise {
            font-size: 24px;
            color: #0077b6;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h1>Noise Pollution Monitoring</h1>
```

```
<div id="noiseData">
    <h2>Current Noise Level: <span id="currentNoise">Loading...</span> dB</h2>
</div>

<script>
    function updateNoiseData() {
        // Simulate fetching noise data (replace this with actual data retrieval).
        const fakeNoiseData = {
            currentNoiseLevel: Math.floor(Math.random() * 100), // Simulated noise level
        };

        // Update the HTML with the new noise data.
        const currentNoiseElement = document.getElementById("currentNoise");
        currentNoiseElement.textContent = `${fakeNoiseData.currentNoiseLevel} dB`;
    }

    // Call the updateNoiseData function periodically to update the noise data.
    // You might use setInterval for real-time updates.
    setInterval(updateNoiseData, 5000); // Update every 5 seconds (adjust as needed).
</script>
```

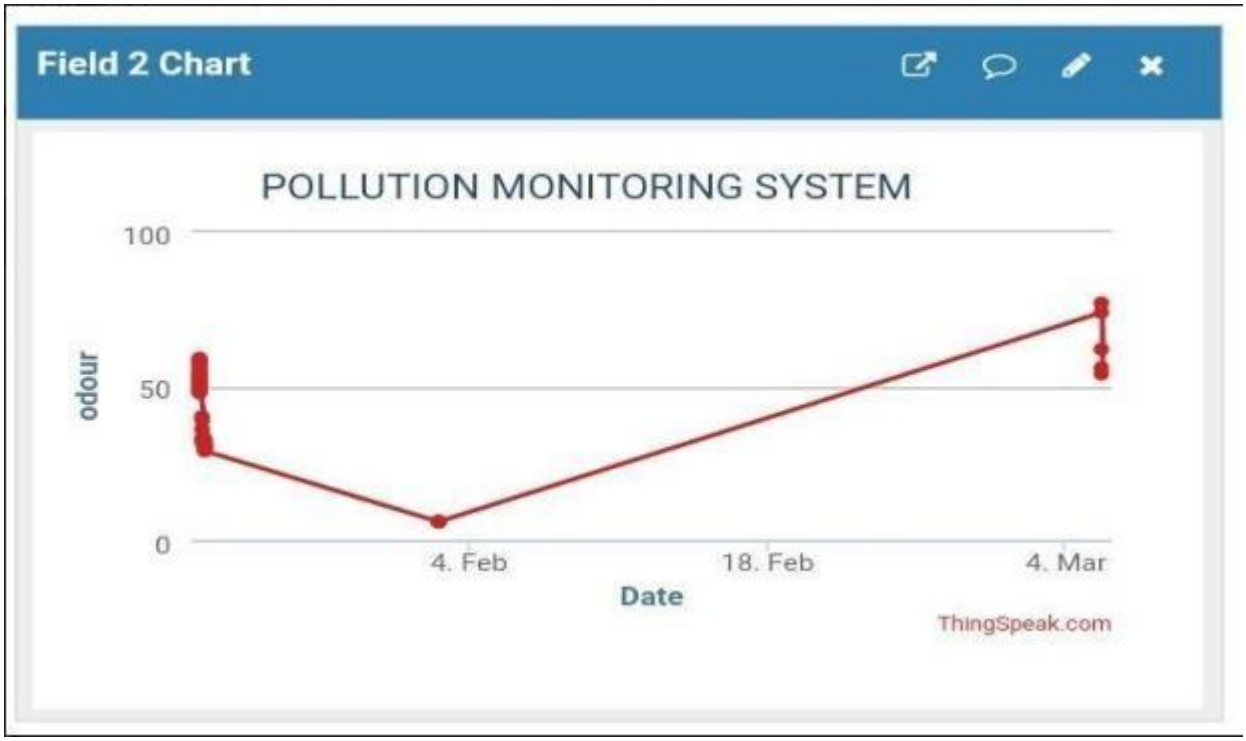
</body>

</html>

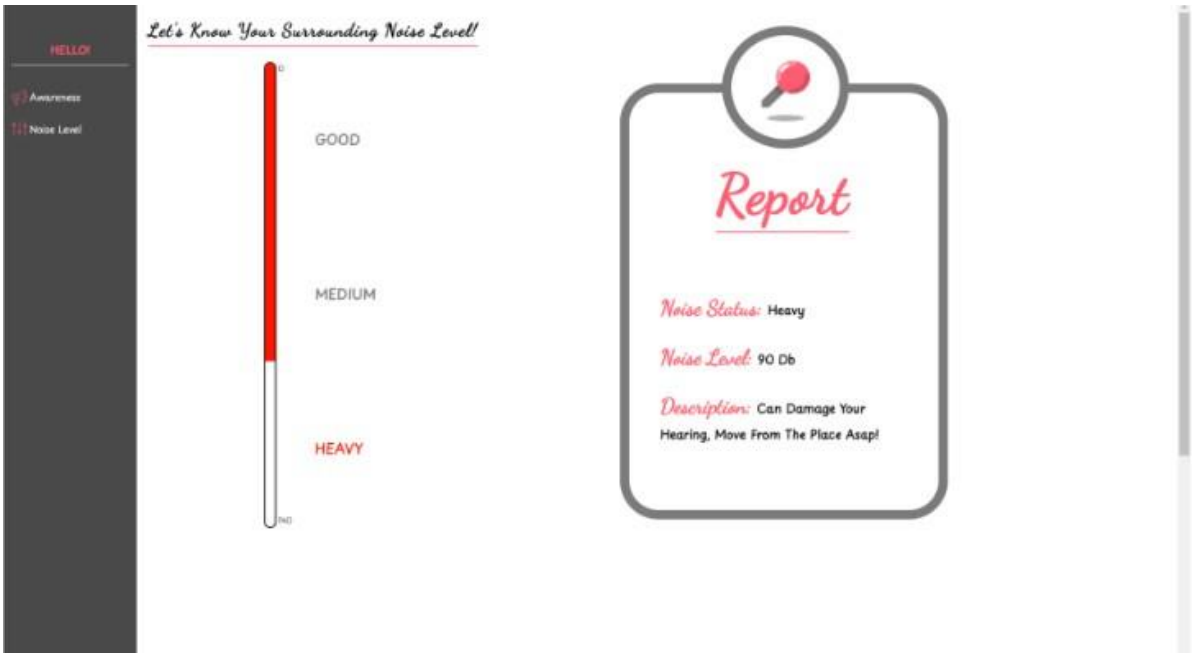
Wokwi :

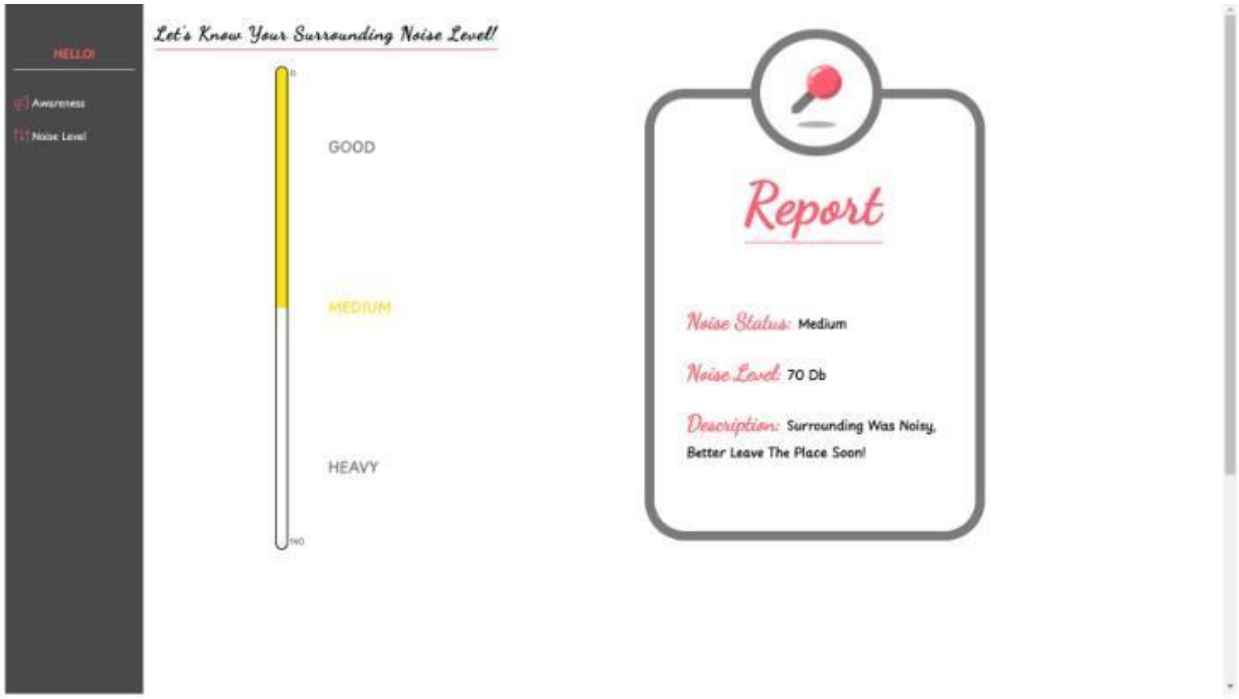


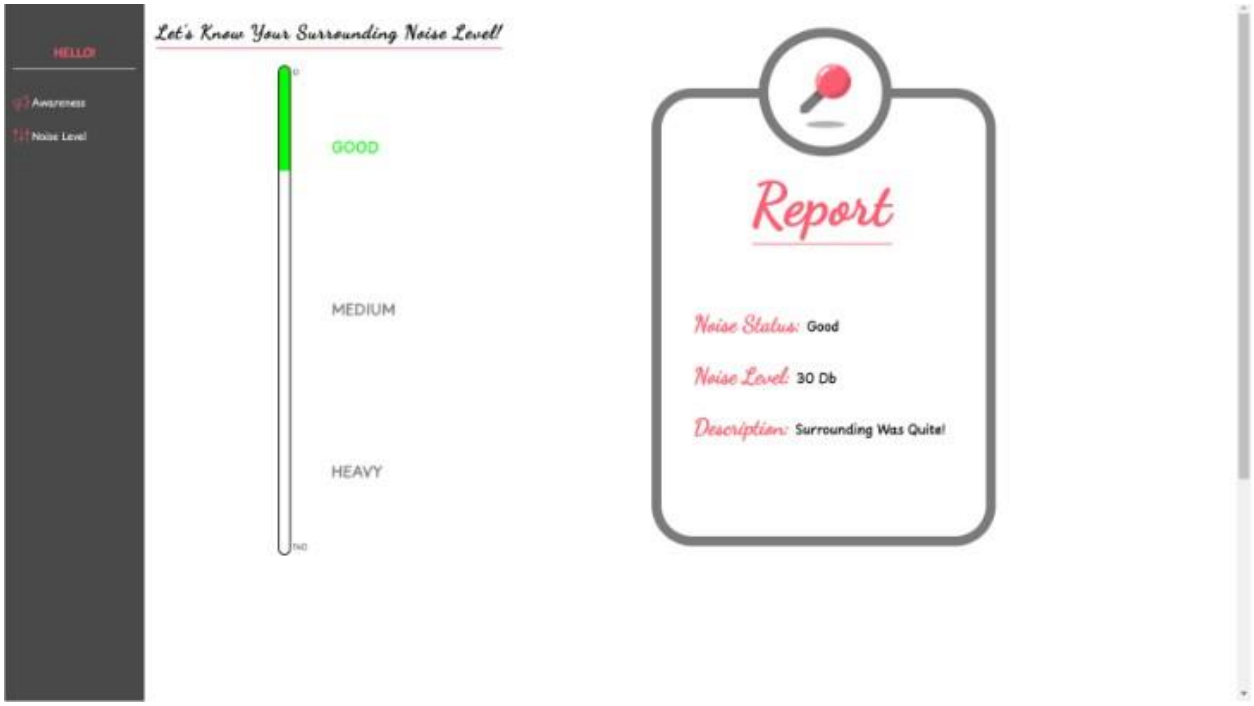
Thinkspeak :



Real-time data :


HELLO!
Awareness
Noise Level
Let's Know Your Surrounding Noise Level!
GOOD
MEDIUM
HEAVY
Report
Noise Status: Heavy
Noise Level: 90 Db
Description: Can Damage Your Hearing, Move From The Place Asap!


HELLO!
Awareness
Noise Level
Let's Know Your Surrounding Noise Level!
GOOD
MEDIUM
HEAVY
Report
Noise Status: Medium
Noise Level: 70 Db
Description: Surrounding Was Noisy, Better Leave The Place Soon!



Website :

Noise.bts.dot.gov