**TOPIC**: **PUBLIC TRANSPORT OPTIMIZATION USING IOT SENSOR**

**PHASE\_4 –** DEVELOPMENT PART 2

INDEX:

DEVELOPMENT PART 2

Continue building the project by developing the public transportation Optimization.

Using web development technologies (e.g., HTML, CSS, JavaScript) to create a platform that displays real-time public transportation data.

Designing the platform to receive and display real-time temperature and humidity data from IoT devices.

**HTML (index.html):**

<!DOCTYPE html>

<html>

<head>

<title>Public Transportation Optimization</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<h1>Public Transportation Optimization</h1>

<div id="route-planner">

<label for="start">Starting Point:</label>

<input type="text" id="start" placeholder="Enter starting location">

<label for="end">Destination:</label>

<input type="text" id="end" placeholder="Enter destination">

<button onclick="planRoute()">Plan Route</button>

</div>

<div id="route-details">

<h2>Optimized Route:</h2>

<ul id="optimized-route-list"></ul>

</div>

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

</body>

</html>

**CSS (styles.css):**

body {

font-family: Arial, sans-serif;

margin: 20px;

}

h1 {

text-align: center;

}

#route-planner {

margin: 20px;

padding: 10px;

border: 1px solid #ccc;

}

label, input, button {

display: block;

margin: 10px 0;

}

#route-details {

margin: 20px;

}

#optimized-route-list {

list-style: decimal;

padding-left: 20px;

}

**JavaScript (script.js):**

function planRoute() {

const startLocation = document.getElementById("start").value;

const endLocation = document.getElementById("end").value;

// Implement your route optimization logic here

// This is where you'd call APIs, calculate routes, and display the optimized route

const optimizedRoute = ["Step 1: Take bus A to stop X", "Step 2: Walk to stop Y", "Step 3: Take train B to your destination"];

const routeList = document.getElementById("optimized-route-list");

routeList.innerHTML = "";

optimizedRoute.forEach((step) => {

const listItem = document.createElement("li");

listItem.textContent = step;

routeList.appendChild(listItem);

});

}