

SOURCE CODES

MAIN PAGE :

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhJY6hW+ALEwIH"
    crossorigin="anonymous">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDz0xhy9GkcIdslK1eN7N6jIeHz"
    crossorigin="anonymous"></script>
  <link rel="stylesheet" href="./styles.css" />
  <style>
    .animate-text {
      animation: text-animation 3s ease-in-out infinite alternate;
      font-size: 70px;
    }
  </style>
</head>
```

```
@keyframes text-animation {
  0% {
    transform: scale(1);
  }
}
```

```
50% {
  transform: scale(1.1);
}
```

```
100% {
  transform: scale(1);
}
```

```
.nav-link:hover {
  background-color: #F8FAE5 !important;
  color: black !important;
}
</style>
</head>
```

```
<body>
  <header class="d-flex justify-content-center py-4 mb-3" style="background-color: #43766C;">
    <ul class="nav nav-pills">
      <li class="nav-item"><a href="./index.html" class="nav-link text-white" aria-
        current="page">Home</a></li>
      <li class="nav-item"><a href="./team.html" class="nav-link text-white">Team</a></li>
      <li class="nav-item"><a href="#about" class="nav-link text-white">About</a></li>
      <li class="nav-item"><a href="./documentation.html" class="nav-link text-
        white">Documentation</a></li>
      <li class="nav-item"><a href="./contact.html" class="nav-link text-white">Contact</a></li>
    </ul>
  </header>
```

```
<div class="px-4 py-5 text-center" style="background-color: #F8FAE5; margin-top: -1rem;">
  
  <h1 class="display-5 fw-bold text-body-emphasis animate-text">De-Carbify</h1>
  <div class="col-lg-6 mx-auto">
    <p class="lead mb-4">Small Changes, Global Impact.</p>
    <div class="d-grid gap-2 d-sm-flex justify-content-sm-center">
      <button id="calculateButton" type="button" class="btn btn-primary btn-lg px-4 gap-
        3">Calculate</button>
    </div>
  </div>
</div>
```

```
<div id="about" class="container-fluid" style="background-color: #F8FAE5; padding-left: 100px;">
  <div class="row align-items-center g-5 py-5">
```

```

        <div class="col-lg-6 order-lg-2">
            
        </div>
        <div class="col-lg-6">
            <h1 id="about" class="display-5 fw-bold text-body-emphasis lh-1 mb-3">Our Mission</h1>
            <p class="lead">Our mission is to empower individuals to make informed decisions about their
environmental impact by providing a user-friendly platform to measure and reduce carbon footprints. By
offering transparent data and actionable insights, we aim to inspire positive change and contribute to a
more sustainable future.</p>
        </div>
    </div>

```

```

<!-- New Sections -->
<div class="row g-5 py-5">
    <div class="col-lg-12">
        <h2 class="fw-bold text-body-emphasis lh-1 mb-3">Future Scope and Possibilities for De-Carbify</h2>
    </div>

```

```

    <p class="lead">
        <strong>1. Advanced AI and Predictive Analytics:</strong><br>
        <em>Personalized Recommendations:</em> As the platform evolves, integrating more advanced AI and
predictive analytics could provide even more tailored recommendations for users, predicting their carbon
footprint based on historical data and suggesting proactive measures.<br>
        <em>Automation:</em> Implement automation features that automatically adjust device settings or
suggest optimized usage times to minimize carbon impact without user intervention.
    </p>

```

```

    <p class="lead">
        <strong>2. Integration with IoT and Smart Devices:</strong><br>
        <em>Real-Time Data Collection:</em> De-Carbify can integrate with IoT and smart devices to
collect real-time data on energy consumption, offering more precise carbon tracking.<br>
        <em>Smart Home and Office Integration:</em> Expanding into smart home and office systems, the
platform could automatically control and optimize energy use, reducing carbon emissions with minimal user
input.
    </p>

```

```

    <p class="lead">
        <strong>3. Blockchain for Transparency:</strong><br>
        <em>Carbon Credit Trading:</em> Implement blockchain technology to support transparent carbon
credit trading, allowing users and businesses to earn and trade carbon credits based on their
reductions.<br>
        <em>Audit Trails:</em> Blockchain can also ensure a transparent and verifiable audit trail of
carbon reductions, enhancing trust and accountability.
    </p>

```

```

    <p class="lead">
        <strong>4. Global Partnerships and Expansion:</strong><br>
        <em>Partnerships with Governments and NGOs:</em> Collaborate with governments, NGOs, and
international bodies to standardize carbon accounting methods and promote global adoption.<br>
        <em>Corporate Integration:</em> Expand the platform's capabilities to integrate with enterprise
resource planning (ERP) systems, helping large organizations track and reduce their carbon footprints at
scale.
    </p>

```

```

    <p class="lead">
        <strong>5. Expanded Marketplace and Ecosystem:</strong><br>
        <em>Sustainable Products Marketplace:</em> Continuously expand the marketplace to include a wider
range of eco-friendly products and services, making it a one-stop shop for sustainable living and business
practices.<br>
        <em>Eco-Friendly Certification Programs:</em> Partner with certification bodies to offer users
and businesses eco-certifications based on their carbon reduction achievements, adding an additional layer
of recognition and motivation.
    </p>

```

```

    <p class="lead">
        <strong>6. Educational and Community Initiatives:</strong><br>
        <em>Educational Programs:</em> Develop comprehensive educational modules within the platform to
teach users about sustainability, carbon accounting, and responsible tech use, potentially partnering with
educational institutions.<br>
    </p>

```

```
    <em>Community Engagement:</em> Foster larger community-driven initiatives, such as global challenges or collaborative projects, where users can work together to achieve significant carbon reductions.
  </p>
```

```
    <p class="lead">
      <strong>7. Expansion to Other Environmental Metrics:</strong><br>
      <em>Water and Waste Tracking:</em> Extend the platform's capabilities to track and reduce other environmental metrics, such as water usage and waste production, providing a more holistic approach to sustainability.<br>
      <em>Biodiversity Impact:</em> Explore tools to measure and mitigate the impact of technology on biodiversity, offering users a broader perspective on their environmental footprint.
    </p>
```

```
    <p class="lead">
      <strong>8. Localized Solutions:</strong><br>
      <em>Regional Customization:</em> Develop localized versions of the platform to cater to specific regions, considering local energy sources, regulations, and cultural practices in sustainability.<br>
      <em>Language and Cultural Adaptation:</em> Ensure the platform is accessible in multiple languages and culturally relevant, facilitating global adoption.
    </p>
  </div>
</div>
</div>
<div id="about" class="container-fluid" style="background-color: #F8FAE5; padding-left: 100px;">
  <div class="row align-items-center g-5 py-5">
    <div class="col-lg-6 order-lg-2">
      
    </div>
    <div class="col-lg-6">
      <h1 id="about" class="display-5 fw-bold text-body-emphasis lh-1 mb-3">How easily can your solution be implemented and how effective will it be?
    </h1>
    <p class="lead">De-Carbify can be implemented relatively easily by leveraging existing technology stacks and cloud services. The use of widely adopted frameworks like React.js and Node.js ensures rapid development and scalability. The platform's effectiveness lies in its ability to engage users through gamification, providing both individual and collective incentives to reduce carbon footprints, thereby driving substantial behavioral change and measurable environmental impact.</p>
    </div>
  </div>
</div>
```

```
</body>
<script>
  document.getElementById("calculateButton").addEventListener("click", function () {
    window.location.href = "./calculate.html";
  });
  document.getElementById("insights").addEventListener("click", function () {
    window.location.href = "./insights.html";
  });
</script>
```

```
</html>
```

CALCULATE PAGE:

```
<!DOCTYPE html>
<html>
<head>
  <title>Carbon Footprint Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      text-align: center;
      background-color: #c6efce; /* Light green background */
      background-image: linear-gradient(to bottom, #c6efce, #f7f7f7); /* Add gradient background */
      transition: background-color 0.3s; /* Add transition effect */
    }
  </style>
</head>
```

```

        animation: fade-in 1s; /* Add animation effect */
    }

    h1 {
        color: #333;
        font-size: 48px; /* Increase font size */
        margin: 40px 0;
        text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.1); /* Add subtle shadow */
        text-align: center;
        animation: slide-in 1s; /* Add animation effect */
    }

```

```

    form {
        display: grid;
        grid-template-columns: 1fr 1fr;
        gap: 20px;
        justify-items: center;
        background-color: #f7f7f7; /* Light gray background */
        padding: 40px;
        border-radius: 15px;
        box-shadow: 0px 8px 16px rgba(0, 0, 0, 0.3);
        width: 90%;
        max-width: 900px;
        margin: 20px auto;
        box-sizing: border-box; /* Include padding and border in width calculation */
        transition: box-shadow 0.3s; /* Add transition effect */
        animation: zoom-in 1s; /* Add animation effect */
    }

```

```

    label {
        font-weight: bold;
        margin-bottom: 10px;
        display: block;
        text-align: left;
        width: 100%;
        color: #555; /* Slightly darker label color */
        transition: color 0.3s; /* Add transition effect */
    }

```

```

    input, select {
        padding: 15px;
        border: 1px solid #ccc;
        border-radius: 10px;
        width: 100%;
        max-width: 350px;
        box-shadow: inset 0px 1px 2px rgba(0, 0, 0, 0.1);
        transition: border-color 0.3s; /* Add transition effect */
    }

```

```

    input:focus, select:focus {
        border-color: #4CAF50; /* Change border color on focus */
        box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.2); /* Add focus shadow */
    }

```

```

    button {
        background-color: #4CAF50;
        color: white;
        padding: 18px 25px;
        border: none;
        border-radius: 10px;
        cursor: pointer;
        margin-top: 20px;
        width: 100%;
        max-width: 350px;
        transition: background-color 0.3s;
        box-shadow: 2px 2px 4px rgba(0, 0, 0, 0.1); /* Add button shadow */
        animation: pulse 2s infinite; /* Add animation effect */
    }

```

```

    button:hover {
        background-color: #45a049;
        box-shadow: 4px 4px 8px rgba(0, 0, 0, 0.2); /* Increase button shadow on hover */
    }

```

```
}
```

```
#result-container {  
  margin-top: 30px;  
  padding: 20px;  
  background-color: #f7f7f7; /* Light gray background */  
  border-radius: 15px;  
  box-shadow: 0px 8px 16px rgba(0, 0, 0, 0.3);  
  width: 90%;  
  max-width: 900px;  
  margin: 20px auto;  
  animation: fade-in 1s; /* Add animation effect */  
}
```

```
#result {  
  font-weight: bold;  
  font-size: 24px;  
  color: #333;  
}
```

```
.icon {  
  margin-right: 15px;  
  color: #4CAF50;  
  transition: color 0.3s; /* Add transition effect */  
}
```

```
h3 {  
  margin-bottom: 15px;  
  font-size: 24px;  
  color: #333;  
  transition: color 0.3s; /* Add transition effect */  
}
```

```
/* Add animation for form submission */  
#carbonFootprintForm {  
  animation: fade-in 0.5s;  
}
```

```
@keyframes fade-in {  
  from {  
    opacity: 0;  
  }  
  to {  
    opacity: 1;  
  }  
}
```

```
@keyframes slide-in {  
  from {  
    transform: translateY(-100px);  
  }  
  to {  
    transform: translateY(0);  
  }  
}
```

```
@keyframes zoom-in {  
  from {  
    transform: scale(0.5);  
  }  
  to {  
    transform: scale(1);  
  }  
}
```

```
@keyframes pulse {  
  0% {  
    transform: scale(1);  
  }  
  50% {  
    transform: scale(1.1);  
  }  
}
```

```

    }
    100% {
        transform: scale(1);
    }
}
</style>

```

```

</head>
<body>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
    <h1>Calculate Your Carbon Footprint</h1>

```

```

<form id="carbonFootprintForm">
    <h3><i class="fas fa-user"></i> Body Type</h3>
    <select id="bodyType" name="bodyType">
        <option value="slim">Slim</option>
        <option value="average">Average</option>
        <option value="obese">Obese</option>
    </select>

```

```

    <h3><i class="fas fa-transgender"></i> Sex</h3>
    <select id="sex" name="sex">
        <option value="male">Male</option>
        <option value="female">Female</option>
    </select>

```

```

    <h3><i class="fas fa-leaf"></i> Diet</h3>
    <select id="diet" name="diet">
        <option value="vegan">Vegan</option>
        <option value="vegetarian">Vegetarian</option>
        <option value="meat">Meat</option>
    </select>

```

```

    <h3><i class="fas fa-shower"></i> How Often Shower</h3>
    <select id="showerFrequency" name="showerFrequency">
        <option value="daily">Daily</option>
        <option value="everyOtherDay">Every Other Day</option>
        <option value="weekly">Weekly</option>
    </select>

```

```

    <h3><i class="fas fa-plug"></i> Heating Energy Source</h3>
    <select id="heatingEnergySource" name="heatingEnergySource">
        <option value="gas">Gas</option>
        <option value="electricity">Electricity</option>
    </select>

```

```

    <h3><i class="fas fa-car"></i> Transport</h3>
    <select id="transport" name="transport">
        <option value="driving">Driving</option>
        <option value="publicTransport">Public Transport</option>
        <option value="cycling">Cycling</option>
    </select>

```

```

    <h3><i class="fas fa-car-side"></i> Vehicle Type</h3>
    <select id="vehicleType" name="vehicleType">
        <option value="gasoline">Gasoline</option>
        <option value="electric">Electric</option>
    </select>

```

```

    <h3><i class="fas fa-users"></i> Social Activity</h3>
    <select id="socialActivity" name="socialActivity">
        <option value="active">Active</option>
        <option value="moderate">Moderate</option>
        <option value="sedentary">Sedentary</option>
    </select>

```

```

    <h3><i class="fas fa-shopping-cart"></i> Monthly Grocery Bill</h3>
    <input type="number" id="monthlyGroceryBill" name="monthlyGroceryBill" placeholder="Enter amount">

```

```

    <h3><i class="fas fa-plane-departure"></i> Frequency of Traveling by Air</h3>

```

```

<select id="frequencyOfTravelingByAir" name="frequencyOfTravelingByAir">
  <option value="frequent">Frequent</option>
  <option value="occasional">Occasional</option>
  <option value="rarely">Rarely</option>
</select>

```

```

<h3><i class="fas fa-road"></i> Vehicle Monthly Distance (km)</h3>
<input type="number" id="vehicleMonthlyDistanceKm" name="vehicleMonthlyDistanceKm"
placeholder="Enter distance">

```

```

<h3><i class="fas fa-trash"></i> Waste Bag Size</h3>
<select id="wasteBagSize" name="wasteBagSize">
  <option value="small">Small</option>
  <option value="medium">Medium</option>
  <option value="large">Large</option>
</select>

```

```

<h3><i class="fas fa-trash"></i> Waste Bag Weekly Count</h3>
<input type="number" id="wasteBagWeeklyCount" name="wasteBagWeeklyCount" placeholder="Enter count">

```

```

<h3><i class="fas fa-tv"></i> How Long TV/PC Daily (hours)</h3>
<input type="number" id="tvPcHour" name="tvPcHour" placeholder="Enter hours">

```

```

<h3><i class="fas fa-tshirt"></i> How Many New Clothes Monthly</h3>
<input type="number" id="newClothesMonthly" name="newClothesMonthly" placeholder="Enter count">

```

```

<h3><i class="fas fa-laptop"></i> How Long Internet Daily (hours)</h3>
<input type="number" id="internetDailyHour" name="internetDailyHour" placeholder="Enter hours">

```

```

<h3><i class="fas fa-bolt"></i> Energy Efficiency</h3>
<select id="energyEfficiency" name="energyEfficiency">
  <option value="high">High</option>
  <option value="medium">Medium</option>
  <option value="low">Low</option>
</select>

```

```

<h3><i class="fas fa-recycle"></i> Recycling</h3>
<select id="recycling" name="recycling">
  <option value="yes">Yes</option>
  <option value="no">No</option>
</select>

```

```

<h3><i class="fas fa-fire"></i> Cooking With</h3>
<select id="cookingWith" name="cookingWith">
  <option value="electric">Electric</option>
  <option value="gas">Gas</option>
</select>
<a href="./calculate.html/#result">
<button type="submit">Calculate</button>
</a>
</form>

```

```

<div id="result-container">
  <p id="result">Your estimated carbon footprint is:</p>
</div>

```

```

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

```

JAVASCRIPT FOR CALCULATE PAGE:

```

document.getElementById('carbonFootprintForm').addEventListener('submit', function(event) {
  event.preventDefault();

  // Constants for carbon emissions per activity (example values, not accurate)
  const emissions = {
    bodyType: {slim: 100, average: 120, obese: 150},
    sex: {male: 110, female: 100},
    diet: {vegan: 50, vegetarian: 70, meat: 100},

```

```

    showerFrequency: {daily: 30, everyOtherDay: 20, weekly: 10},
    heatingEnergySource: {gas: 500, electricity: 300},
    transport: {driving: 400, publicTransport: 200, cycling: 50},
    vehicleType: {gasoline: 300, electric: 100},
    socialActivity: {active: 50, moderate: 30, sedentary: 10},
    frequencyOfTravelingByAir: {frequent: 500, occasional: 300, rarely: 100},
    wasteBagSize: {small: 10, medium: 20, large: 30},
    energyEfficiency: {high: 50, medium: 100, low: 200},
    recycling: {yes: -50, no: 0},
    cookingWith: {electric: 50, gas: 100}
  });

```

```

// Fetch values from form
const bodyType = document.getElementById('bodyType').value;
const sex = document.getElementById('sex').value;
const diet = document.getElementById('diet').value;
const showerFrequency = document.getElementById('showerFrequency').value;
const heatingEnergySource = document.getElementById('heatingEnergySource').value;
const transport = document.getElementById('transport').value;
const vehicleType = document.getElementById('vehicleType').value;
const socialActivity = document.getElementById('socialActivity').value;
const monthlyGroceryBill = parseFloat(document.getElementById('monthlyGroceryBill').value);
const frequencyOfTravelingByAir = document.getElementById('frequencyOfTravelingByAir').value;
const vehicleMonthlyDistanceKm = parseFloat(document.getElementById('vehicleMonthlyDistanceKm').value);
const wasteBagSize = document.getElementById('wasteBagSize').value;
const wasteBagWeeklyCount = parseFloat(document.getElementById('wasteBagWeeklyCount').value);
const tvPcHour = parseFloat(document.getElementById('tvPcHour').value);
const newClothesMonthly = parseFloat(document.getElementById('newClothesMonthly').value);
const internetDailyHour = parseFloat(document.getElementById('internetDailyHour').value);
const energyEfficiency = document.getElementById('energyEfficiency').value;
const recycling = document.getElementById('recycling').value;
const cookingWith = document.getElementById('cookingWith').value;

```

```

// Example calculations (very simplified)
let totalEmission =
  emissions.bodyType[bodyType] +
  emissions.sex[sex] +
  emissions.diet[diet] +
  emissions.showerFrequency[showerFrequency] +
  emissions.heatingEnergySource[heatingEnergySource] +
  emissions.transport[transport] +
  emissions.vehicleType[vehicleType] +
  emissions.socialActivity[socialActivity] +
  (monthlyGroceryBill * 0.1) + // Assuming 0.1 kg CO2e per dollar
  emissions.frequencyOfTravelingByAir[frequencyOfTravelingByAir] +
  (vehicleMonthlyDistanceKm * 0.2) + // Assuming 0.2 kg CO2e per km for gasoline car
  (wasteBagWeeklyCount * emissions.wasteBagSize[wasteBagSize]) +
  (tvPcHour * 5) + // Assuming 5 kg CO2e per hour for electronics
  (newClothesMonthly * 8) + // Assuming 8 kg CO2e per new clothing item
  (internetDailyHour * 1) + // Assuming 1 kg CO2e per hour for internet use
  emissions.energyEfficiency[energyEfficiency] +
  emissions.recycling[recycling] +
  emissions.cookingWith[cookingWith];

```

```

// Display the result

const resultDiv = document.getElementById('result');
resultDiv.innerHTML = `Your estimated carbon footprint is: ${totalEmission} kg CO2e per month.`;

```

```

// Optional: Redirect to results page with data
// window.location.href = results.html?footprint=${totalEmission};
});

```