HTML CODE

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Waste Recycling & Management App</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<!-- Authentication Section -->

<div id="auth-section" class="section">

<h2>User Authentication</h2>

<input type="text" id="username" placeholder="Username">

<input type="password" id="password" placeholder="Password">

<button onclick="login()">Login</button>

<button onclick="register()">Register</button>

</div>

<!-- Waste Pickup Scheduling Section -->

<div id="pickup-section" class="section">

<h2>Waste Pickup Scheduling</h2>

<input type="text" id="pickup-address" placeholder="Pickup Address">

<input type="date" id="pickup-date">

<select id="waste-type">

<option value="recyclable">Recyclable</option>

<option value="organic">Organic</option>

<option value="hazardous">Hazardous</option>

</select>

<button onclick="schedulePickup()">Schedule Pickup</button>

</div>

<!-- Recycling Tracking & Rewards Section -->

<div id="tracking-section" class="section">

<h2>Recycling Tracking & Rewards</h2>

<p>Total Waste Recycled: <span id="waste-recycled">0</span> kg</p>

<button onclick="trackRecycling()">Add 1 kg Recycled</button>

</div>

<!-- Locate Recycling Centers Section -->

<div id="recycling-center-section" class="section">

<h2>Locate Recycling Centers</h2>

<button onclick="findCenters()">Find Nearby Centers</button>

<ul id="recycling-centers-list"></ul>

</div>

<!-- Educational Resources Section -->

<div id="education-section" class="section">

<h2>Educational Resources</h2>

<p>Learn more about proper waste segregation and recycling best practices.</p>

<ul>

<li>Always separate organic from recyclable waste.</li>

<li>Dispose of hazardous waste carefully to prevent contamination.</li>

<li>Recycle as much as possible to reduce landfill waste.</li>

</ul>

</div>

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

</body>

</html>

CSS CODE

body {

font-family: Arial, sans-serif;

background-color: #f4f4f9;

margin: 0;

padding: 0;

display: flex;

flex-direction: column;

align-items: center;

}

.section {

width: 80%;

max-width: 500px;

background-color: #fff;

padding: 20px;

margin: 20px 0;

border: 1px solid #ddd;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h2 {

color: #333;

}

input, select, button {

width: 100%;

padding: 10px;

margin: 5px 0;

border-radius: 4px;

border: 1px solid #ddd;

}

button {

background-color: #28a745;

color: #fff;

border: none;

cursor: pointer;

}

button:hover {

background-color: #218838;

}

JAVASCRIPT CODE

// Sample data for recycling centers

const recyclingCenters = [

{ name: "Green Earth Recycling", location: "Lagos" },

{ name: "Eco Waste Solutions", location: "Abuja" },

{ name: "Sustainable Recyclers", location: "Kano" }

];

// User Authentication (Mock Implementation)

function login() {

const username = document.getElementById('username').value;

const password = document.getElementById('password').value;

if (username && password) {

alert(`Welcome, ${username}!`);

document.getElementById('auth-section').style.display = 'none';

} else {

alert("Please enter valid credentials.");

}

}

function register() {

alert("Registration feature coming soon!");

}

// Waste Pickup Scheduling

function schedulePickup() {

const address = document.getElementById('pickup-address').value;

const date = document.getElementById('pickup-date').value;

const wasteType = document.getElementById('waste-type').value;

if (address && date && wasteType) {

alert(`Pickup scheduled on ${date} at ${address} for ${wasteType} waste.`);

} else {

alert("Please fill in all fields.");

}

}

// Recycling Tracking & Rewards

let totalWasteRecycled = 0;

function trackRecycling() {

totalWasteRecycled += 1;

document.getElementById('waste-recycled').textContent = totalWasteRecycled;

alert(`You have recycled 1 kg! Total recycled: ${totalWasteRecycled} kg.`);

}

// Locate Recycling Centers

function findCenters() {

const list = document.getElementById('recycling-centers-list');

list.innerHTML = '';

recyclingCenters.forEach(center => {

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

listItem.textContent = `${center.name} - Location: ${center.location}`;

list.appendChild(listItem);

});

}