**E-V Recharge Bunk**

**Code:**

**index.html**

index\_html = """<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>EV Recharge Bunk</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">

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

</head>

<body>

<nav class="navbar navbar-expand-lg navbar-dark bg-dark sticky-top">

<div class="container">

<a class="navbar-brand fw-bold" href="#">EV Recharge Bunk</a>

<button class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#nav"><span class="navbar-toggler-icon"></span></button>

<div id="nav" class="collapse navbar-collapse">

<ul class="navbar-nav ms-auto" id="authBtns">

<li class="nav-item"><button class="btn btn-outline-light me-2" data-bs-toggle="modal" data-bs-target="#loginModal">Login</button></li>

<li class="nav-item"><button class="btn btn-success" data-bs-toggle="modal" data-bs-target="#registerModal">Register</button></li>

</ul>

<ul class="navbar-nav ms-auto d-none" id="userNav">

<li class="nav-item me-2 text-white align-self-center" id="welcomeTxt"></li>

<li class="nav-item"><button class="btn btn-warning btn-sm" onclick="logout()">Logout</button></li>

</ul>

</div>

</div>

</nav>

<header class="hero d-flex align-items-center text-center">

<div class="container">

<h1 class="display-5 fw-semibold">Find & Book Your EV Charging Slot</h1>

<p class="lead mb-4">Search nearby charging stations and reserve slots in seconds.</p>

<div class="row justify-content-center g-2">

<div class="col-12 col-sm-10 col-md-8 col-lg-6 d-flex flex-column flex-sm-row gap-2">

<input id="cityInput" class="form-control" placeholder="Enter city or area">

<button class="btn btn-light fw-semibold" onclick="search()">Search</button>

</div>

</div>

</div>

</header>

<section class="container my-5">

<h2 class="h4 mb-3">Available Bunks</h2>

<div id="results" class="row g-4"></div>

</section>

<div class="modal fade" id="bookModal" tabindex="-1">

<div class="modal-dialog modal-dialog-centered">

<div class="modal-content">

<div class="modal-header"><h5 class="modal-title">Book Slot</h5><button class="btn-close" data-bs-dismiss="modal"></button></div>

<div class="modal-body">

<p id="bunkName" class="fw-semibold"></p>

<p>Slots left: <span id="slotLeft" class="badge bg-primary"></span></p>

<button class="btn btn-success w-100" id="confirmBtn">Confirm Booking</button>

</div>

</div>

</div>

</div>

<div class="modal fade" id="loginModal" tabindex="-1">

<div class="modal-dialog"><div class="modal-content">

<div class="modal-header"><h5 class="modal-title">Login</h5><button class="btn-close" data-bs-dismiss="modal"></button></div>

<div class="modal-body">

<form onsubmit="event.preventDefault();login()">

<input id="loginUser" class="form-control mb-2" placeholder="Username" required>

<input type="password" class="form-control mb-3" placeholder="Password" required>

<button class="btn btn-primary w-100">Login</button>

</form>

</div></div></div>

</div>

<div class="modal fade" id="registerModal" tabindex="-1">

<div class="modal-dialog"><div class="modal-content">

<div class="modal-header"><h5 class="modal-title">Register</h5><button class="btn-close" data-bs-dismiss="modal"></button></div>

<div class="modal-body">

<form onsubmit="event.preventDefault();register()">

<input id="regUser" class="form-control mb-2" placeholder="Username" required>

<input type="password" class="form-control mb-3" placeholder="Password" required>

<button class="btn btn-success w-100">Register</button>

</form>

</div></div></div>

</div>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

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

</body>

</html>

**style.css**

body {

font-family: system-ui, sans-serif;

background: #f8f9fa;

}

.hero {

min-height: 50vh;

background: linear-gradient(135deg, #008cff, #00c3ff);

padding: 4rem 1rem;

color: #fff;

}

.card:hover {

box-shadow: 0 0 10px rgba(0, 0, 0, 0.15);

}

**script.js**

const demoBunks = city => [

{id:1,name:"EV FastCharge Station",location:city,slots:3},

{id:2,name:"Eco EV Power Hub",location:city,slots:5},

{id:3,name:"GreenWatt Bunk",location:city,slots:1}

];

let currentUser = localStorage.getItem("evUser") || null;

const resultsEl = document.getElementById("results");

const bunkNameEl = document.getElementById("bunkName");

const slotLeftEl = document.getElementById("slotLeft");

const confirmBtn = document.getElementById("confirmBtn");

let activeBunk = null;

function refreshNav() {

const authBtns = document.getElementById("authBtns");

const userNav = document.getElementById("userNav");

if (currentUser) {

document.getElementById("welcomeTxt").textContent = `Hi, ${currentUser}`;

authBtns.classList.add("d-none");

userNav.classList.remove("d-none");

} else {

authBtns.classList.remove("d-none");

userNav.classList.add("d-none");

}

}

function login(){

currentUser=document.getElementById("loginUser").value.trim();

localStorage.setItem("evUser",currentUser);

bootstrap.Modal.getInstance(document.getElementById("loginModal")).hide();

refreshNav();

}

function register(){

currentUser=document.getElementById("regUser").value.trim();

localStorage.setItem("evUser",currentUser);

bootstrap.Modal.getInstance(document.getElementById("registerModal")).hide();

refreshNav();

}

function logout(){

currentUser=null;

localStorage.removeItem("evUser");

refreshNav();

}

function search(){

const city = document.getElementById("cityInput").value.trim();

if(!city){alert("Please enter a city!");return;}

const bunks = demoBunks(city);

resultsEl.innerHTML="";

bunks.forEach(b => {

const col = document.createElement("div");

col.className="col-12 col-sm-6 col-lg-4";

col.innerHTML=`

<div class="card h-100">

<div class="card-body">

<h5 class="card-title">${b.name}</h5>

<p class="card-text mb-2"><small class="text-muted">${b.location}</small></p>

<p class="mb-3">Slots: <span class="badge bg-primary">${b.slots}</span></p>

<button class="btn btn-outline-primary w-100" ${b.slots?`onclick="openBook(${b.id},'${b.name}',${b.slots})"`:'disabled'}>

${b.slots? "Book Slot":"Full"}

</button>

</div>

</div>`;

resultsEl.appendChild(col);

});

}

function openBook(id,name,slots){

if(!currentUser){alert("Please login first.");return;}

activeBunk={id,name,slots};

bunkNameEl.textContent=name;

slotLeftEl.textContent=slots;

confirmBtn.disabled=false;

bootstrap.Modal.getOrCreateInstance(document.getElementById("bookModal")).show();

}

confirmBtn.onclick=() =>{

if(!activeBunk)return;

if(activeBunk.slots===0){alert("No slots left");return;}

activeBunk.slots--;

slotLeftEl.textContent=activeBunk.slots;

confirmBtn.disabled = activeBunk.slots===0;

alert("Booking confirmed!");

search();

};

refreshNav();

"""

# Save the files

with open("/mnt/data/index.html", "w") as f:

f.write(index\_html)

with open("/mnt/data/style.css", "w") as f:

f.write(style\_css)

with open("/mnt/data/script.js", "w") as f:

f.write(script\_js)