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Documentation for AUG Inc. Website

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**Introduction**

The AUG Inc. website is a dynamic, user-friendly platform designed to showcase the company’s offerings, team, and services. Built with modern web development techniques, the website incorporates interactivity, responsiveness, and a clean design. It is aimed at providing users with essential company information and an intuitive way to get in touch. Key features include a dynamic team section, interactive map integration, and a services showcase, all powered by structured data stored in JSON files.

**Implementation**

**1. Technologies Used**

* **HTML5**: Structuring the content of the website.
* **CSS3**: Styling and layout, including responsiveness.
* **JavaScript (ES6)**: Interactivity and dynamic content rendering.
* **Bootstrap 5**: Responsive grid system and pre-designed UI components.
* **Leaflet.js**: Map rendering and interactivity.
* **JSON**: Data storage for team and services information.

**2. HTML Pages**

* **index.html**: The homepage includes a carousel banner, a mission statement, and links to explore other pages.
* **about.html**: Features dynamically rendered team member profiles using data from data.json.
* **services.html**: Displays available services dynamically using JSON data.
* **contact.html**: Contains a contact form and an interactive map with multiple location markers.

**3. CSS Styling**

* **File:** style.css  
  The CSS file includes styles for the header, footer, and cards. The header uses a background image, and the .card-img-top class ensures consistent image dimensions.

**Example CSS:**header {

background: url('../images/banner.jpg') no-repeat center center;

background-size: cover;

height: 50vh;

display: flex;

align-items: center;

justify-content: center;

text-align: center;

color: white;

}

**4. JavaScript Functionality**

**Team Section (scripts.js)**

Dynamically renders team profiles from data.json into the "About Us" page.

**Code Snippet:**

fetch("js/data.json")

.then(response => response.json())

.then(data => {

data.team.forEach(member => {

const memberCard = `

<div class="col-md-4 text-center p-3">

<div class="card h-100">

<img src="${member.image}" class="card-img-top" alt="${member.name}">

<div class="card-body">

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

<p><strong>${member.role}</strong></p>

<p>${member.bio}</p>

</div>

</div>

</div>`;

document.getElementById("team").innerHTML += memberCard;

});

})

.catch(error => console.error("Error loading team data:", error));

**Services Section (services.js)**

Fetches and displays services dynamically on the "Our Services" page.

fetch('js/data.json')

.then(response => response.json())

.then(data => {

const servicesContainer = document.getElementById('service-list');

data.services.forEach(service => {

const serviceCard = `

<div class="col-md-4">

<div class="card">

<img src="${service.image}" class="card-img-top" alt="${service.title}">

<div class="card-body">

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

<p class="card-text">${service.description}</p>

</div>

</div>

</div>`;

servicesContainer.innerHTML += serviceCard;

});

});

**Interactive Map (contact.js)**

Uses Leaflet.js to display an interactive map with multiple markers defined in data.json.

fetch("js/data.json")

.then(response => response.json())

.then(data => {

const map = L.map("map").setView([8.359639, 124.869179], 18);

L.tileLayer("https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png", {

attribution: '&copy; OpenStreetMap contributors'

}).addTo(map);

data.locations.forEach(location => {

L.marker([location.latitude, location.longitude])

.addTo(map)

.bindPopup(`<p>${location.message}</p>`);

});

});

**Contact Form Validation**

Simple validation ensures the form is filled before submission.

document.getElementById('contact-form').addEventListener('submit', function (event) {

event.preventDefault();

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

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

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

if (name && email && message) {

alert('Thank you for reaching out!');

this.reset();

} else {

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

}

});

**5. Data Handling (JSON)**

All dynamic content is stored in data.json for easy updates.  
Example Data Structure:

{

"team": [

{

"name": "Auggie John Fred Manginsay",

"role": "CEO & Founder",

"bio": "The visionary leader behind AUG Inc.",

"image": "images/auggie\_ceo.jpg"

}

],

"services": [

{

"title": "Business Consulting",

"description": "Expert guidance to grow your business.",

"image": "images/consulting.jpg"

}

],

"locations": [

{

"latitude": 8.359639,

"longitude": 124.869179,

"message": "CCS Laboratory 1"

}

]

}

**Conclusion**

The AUG Inc. website exemplifies modern web design principles, combining functionality with aesthetic appeal. By leveraging JSON for dynamic content, the site is highly scalable and easy to maintain. Interactivity through Leaflet maps, Bootstrap components, and custom JavaScript enhances the user experience, making this website an effective tool for client engagement and brand representation.

This project demonstrates the importance of structured data, responsive design, and modular development in building a robust web solution. Future improvements could include integrating server-side technologies for real-time updates or incorporating analytics to track user interactions.