

AI-techture

BCSE203E - WEB PROGRAMMING

*PROJECT DOCUMENT*

*Winter Semester 2024 - 2025*

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UNDER THE GUIDENCE OF Dr. KAUSER AHMED P SCOPE



**School of Computer Science and Engineering**

**DECLARATION**

I/We hereby declare that the project entitled **“Title of the project”** submitted by me/us to the School of Computer Science and Engineering, VIT University, Vellore-14 in partial fulfillment of the requirements for the **Web Programming (BCSE203E)** course, is a record of bonafide work carried out by me under the supervision of **Dr.Kauser Ahmed, Assistant Professor Senior.** I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other course or degree or diploma of this institute or of any other institute or university.

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**LIST OF ABBREVIATIONS**

AI – Artificial Intelligence

HTML – Hypertext Markup Language

CSS – Cascading Style Sheets

UI – User Interface

**ABSTRACT**

The Front-End Project presented in this documentation aims to build a dynamic and interactive web application using modern web technologies, including HTML, CSS, JavaScript, and advanced libraries. The project leverages AI-driven solutions and seamless UI integration to enhance user experience and functionality.

One of the core features of this project is the implementation of an AI Chatbot using the WebAgent.AI platform. This chatbot interacts with users in real time, providing assistance and personalized responses through machine learning and natural language processing techniques. Additionally, the project employs Builder.io to streamline the conversion of design concepts from Figma into production-ready code, ensuring an efficient and pixel-perfect front-end development process.

The web application is structured to offer a visually appealing and intuitive interface with sections such as Contact, About Us, and Get Started. The design prioritizes accessibility and responsiveness, making it compatible with multiple devices and screen sizes. The use of reusable components and modular architecture further enhances code maintainability and scalability.

Through this project, we demonstrate the integration of cutting-edge technologies to create a robust and responsive web solution that meets modern standards of performance and interactivity. The documentation elaborates on the technologies employed, problem-solving approaches, and the innovative design choices that define the project’s success.

**INTRODUCTION**

AIM:

The project aims to develop AI-driven sustainable infrastructure designs tailored to specific environmental, geographical, and socio-economic conditions. By leveraging data analytics and predictive modeling, the initiative enhances energy efficiency, reduces carbon footprints, and improves disaster resilience to promote long-term, climate-responsive, and cost-effective construction solutions.

OBJECTIVE:

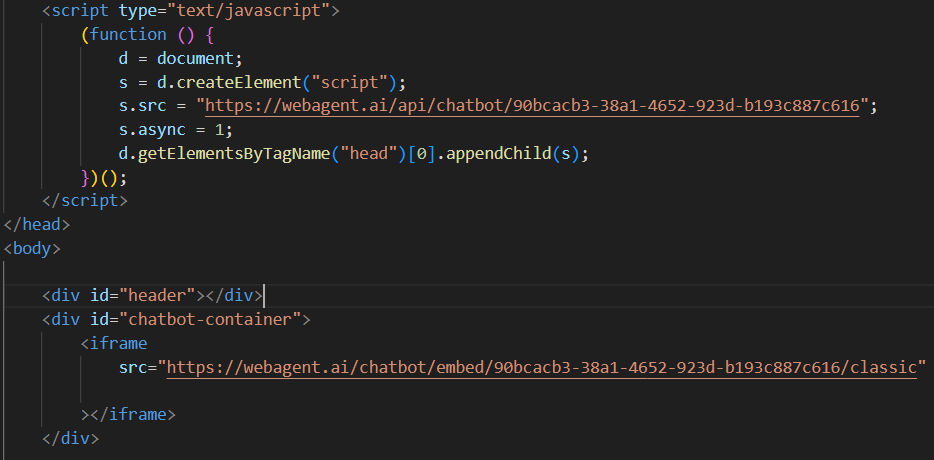
The project has three primary objectives:

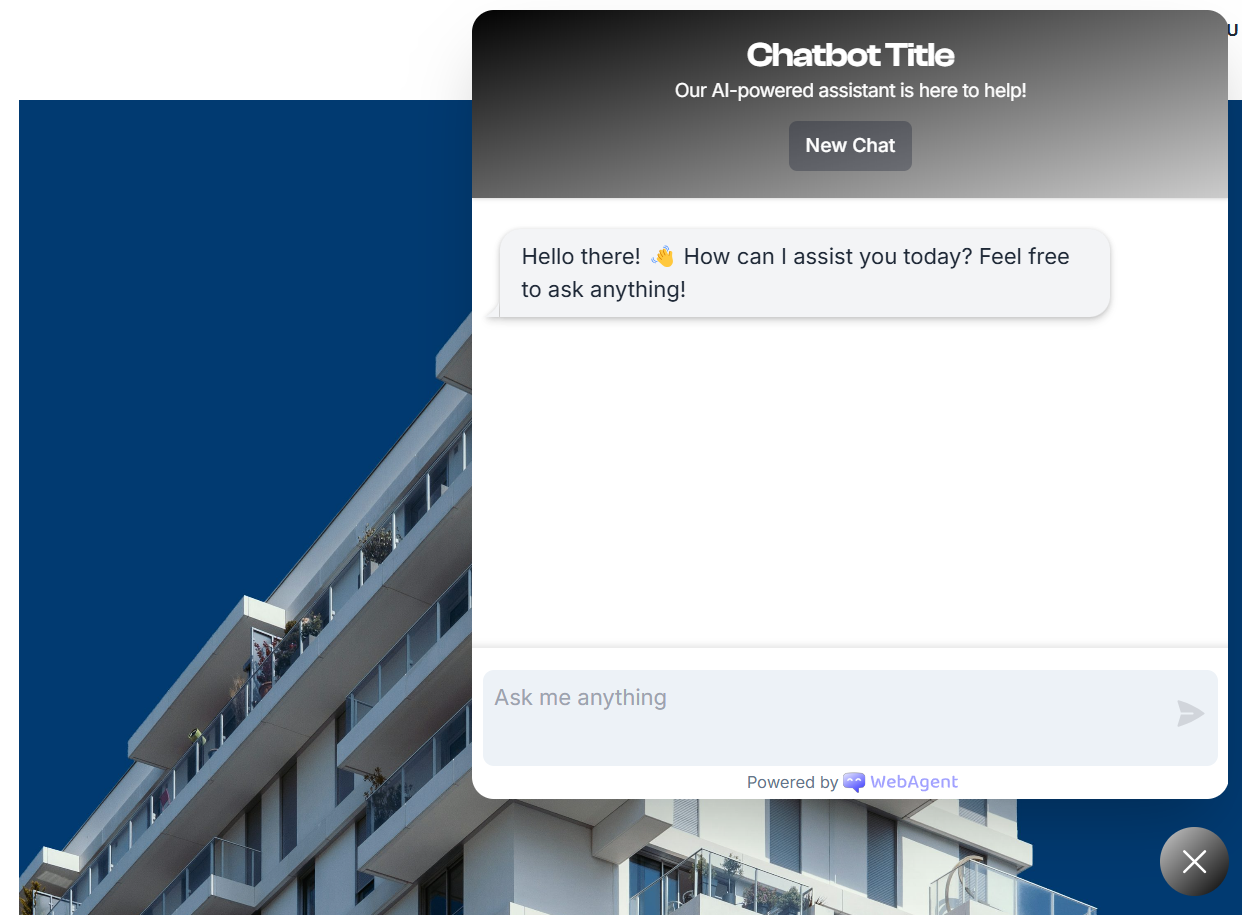
1. **Sustainable Building Design** – Implement energy-efficient structures that maximize natural resources like sunlight, wind, and renewable energy.
2. **Disaster-Resilient Infrastructure** – Develop structures reinforced against natural disasters such as floods, earthquakes, and storms.
3. **Climate-Responsive Design** – Customize construction strategies based on regional climate conditions to minimize reliance on artificial heating, cooling, and lighting.  
   By integrating these elements, the project aims to create innovative, eco-friendly, and cost-effective infrastructure solutions that improve resilience, reduce carbon footprints, and optimize resource use.

RECENT TECHNOLOGIES ADAPTED

AI CHATBOT:

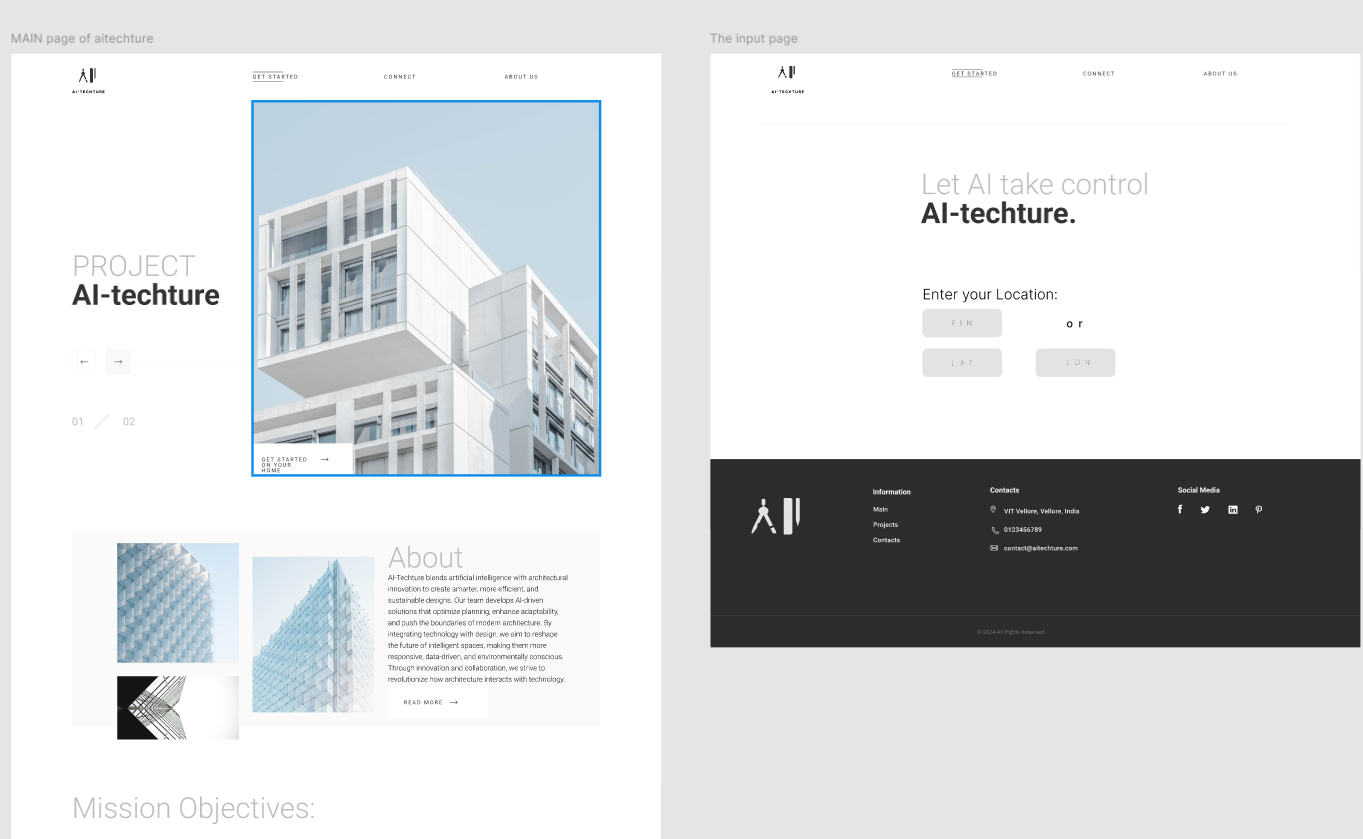
WebAgent.AI is an advanced AI-powered automation platform designed to assist businesses in customer support, lead generation, and workflow optimization. It leverages machine learning and natural language processing to create intelligent chatbots and virtual assistants that engage users in real-time conversations. By automating repetitive tasks and providing data-driven insights, WebAgent.AI enhances customer interactions, boosts efficiency, and improves decision-making. Its seamless integration with various digital platforms enables businesses to streamline operations, reduce response times, and offer personalized support. Ideal for enterprises looking to optimize engagement, WebAgent.AI ensures smarter, faster, and more effective communication.





FIGMA:

Figma is a powerful, cloud-based design tool used for creating user interfaces, prototypes, and collaborative design projects. It offers real-time collaboration, vector editing, and design system management. Figma’s intuitive interface and browser-based functionality make it accessible to teams, enabling efficient design workflows and seamless integration with other design tools.

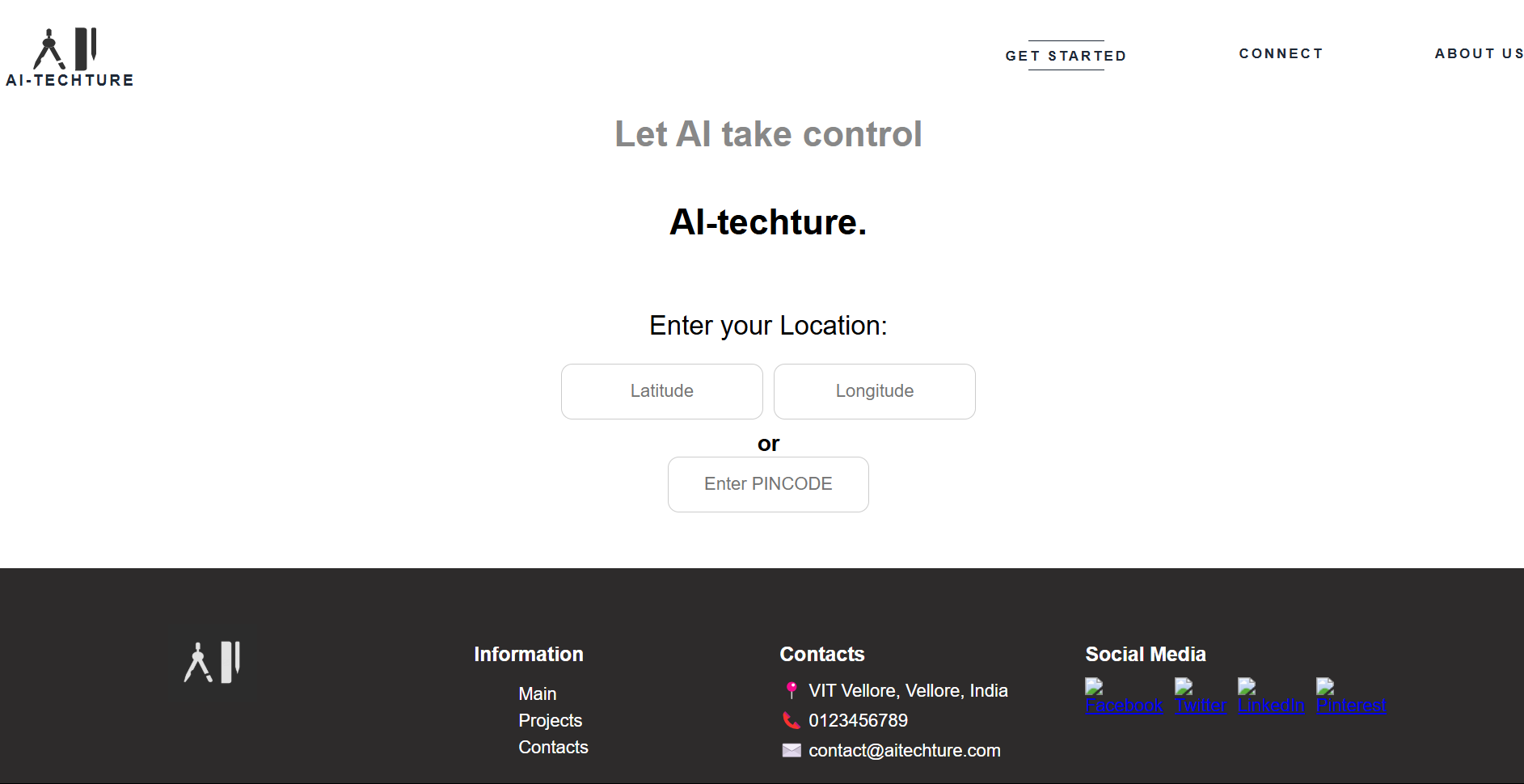


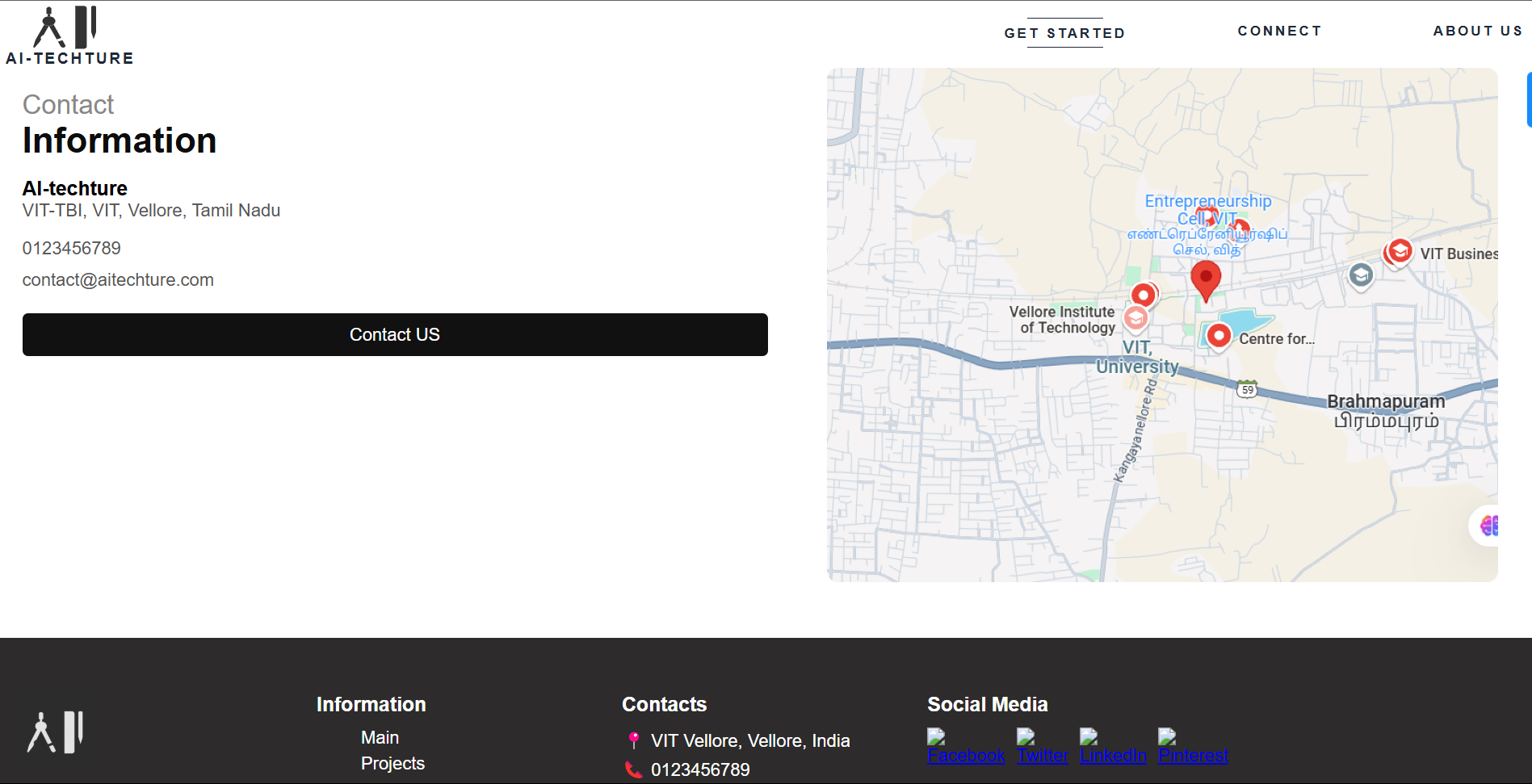
SOLUTIONS FOR EXISTING PROBLEMS

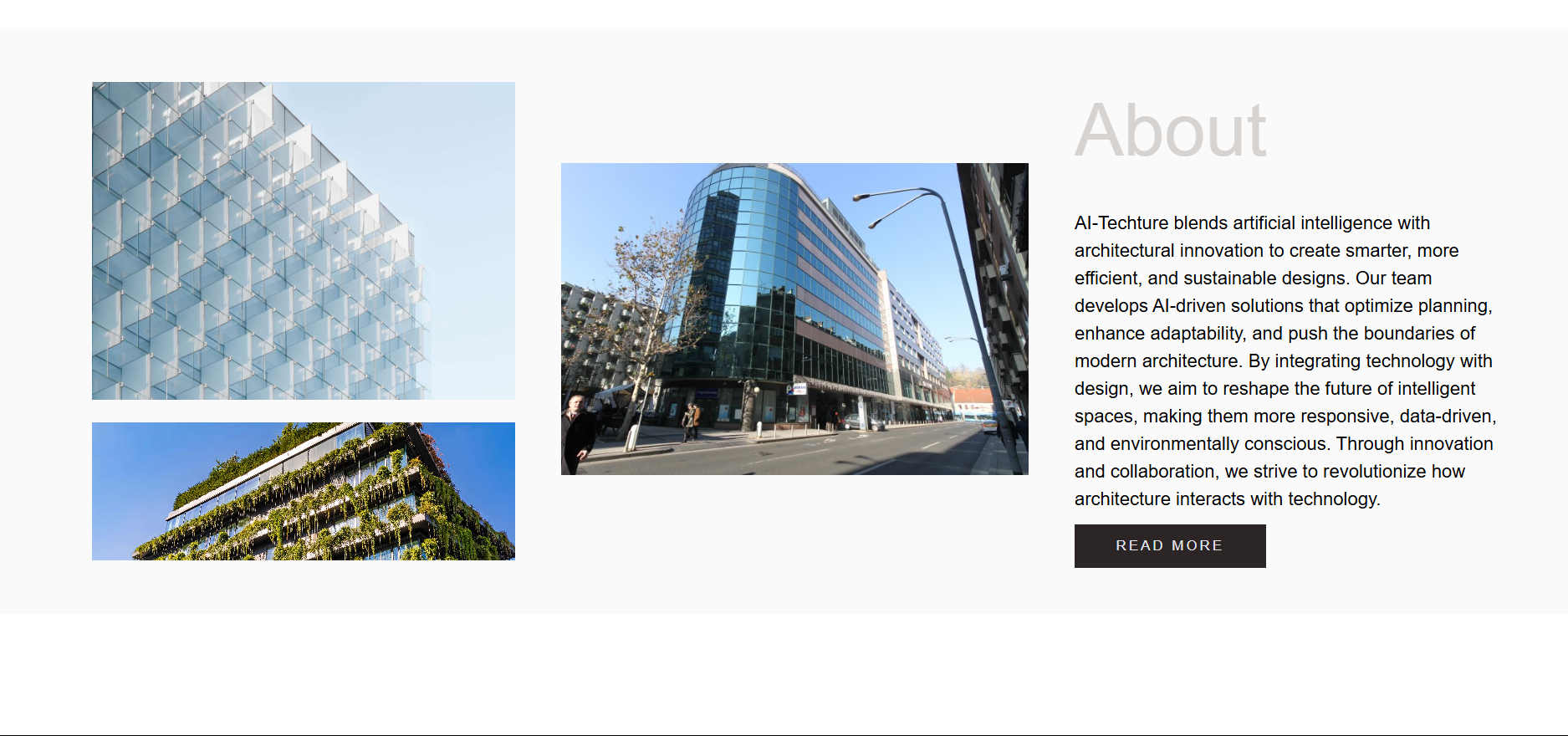
**Problem 1:** Traditional building practices often overlook critical environmental, geographical, and socio-economic factors, leading to excessive energy consumption, high emissions, and disaster vulnerability. Many structures are inefficient, costly to maintain, and ill-equipped to handle climate-related challenges such as floods, earthquakes, and extreme weather events. Urbanization further exacerbates these inefficiencies, increasing risks and resource depletion.  
**Solution:** AI-driven analytics integrate climate data, material sustainability factors, and disaster risk assessments to create optimized infrastructure designs. By utilizing predictive modeling, AI enhances energy efficiency, minimizes carbon footprints, and ensures disaster resilience. The system evaluates soil stability, flood risks, and climate adaptability, providing data-backed recommendations for sustainable construction. This AI-based approach not only mitigates environmental impact but also enhances cost-effectiveness, structural durability, and long-term sustainability.

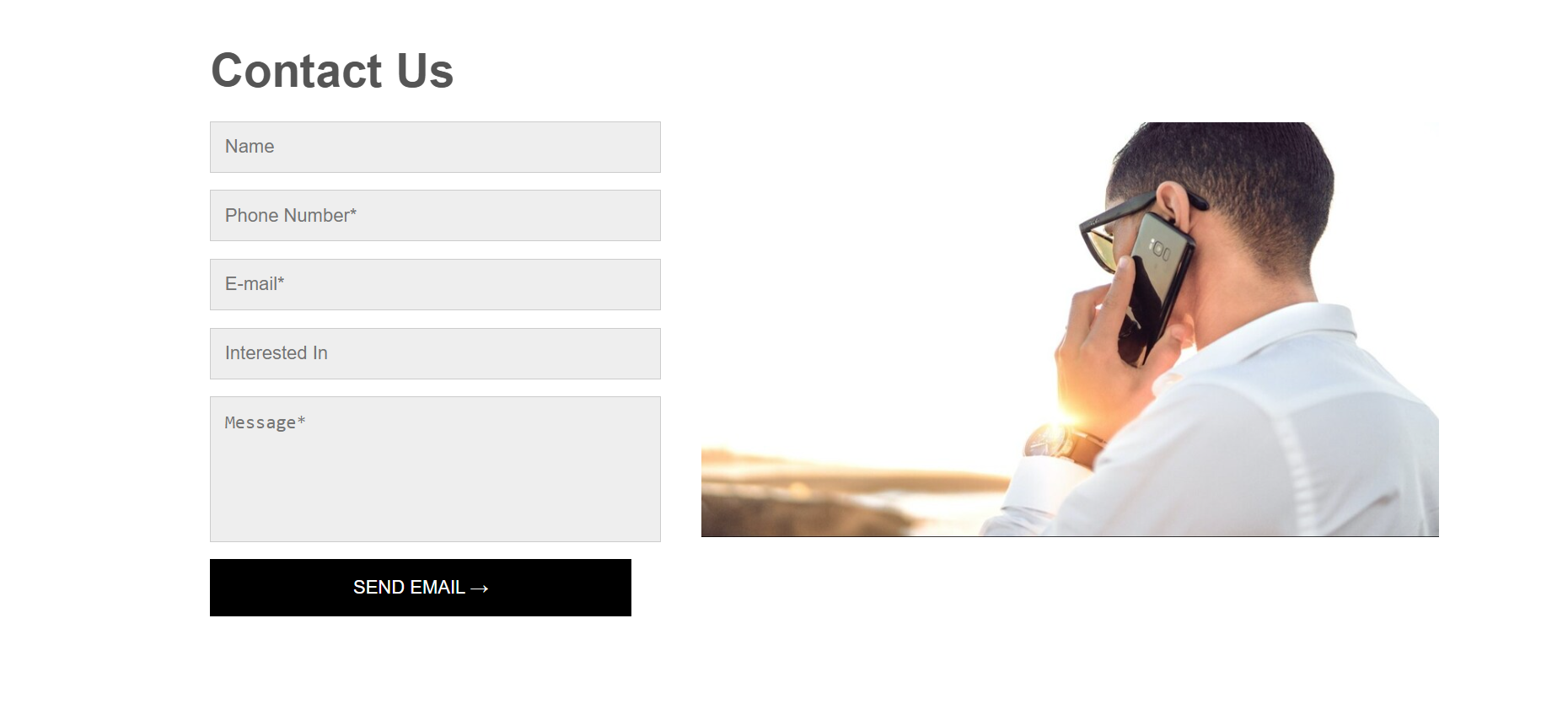
**Problem 2:** The integration of sustainability, disaster resilience, and climate adaptation into a single construction framework poses a significant challenge. Traditional approaches fail to effectively merge environmental considerations with socio-economic and regulatory factors, resulting in inefficient and unsustainable structures. Addressing this issue requires advanced data processing and adaptive design strategies that can simultaneously enhance resilience, reduce costs, and optimize resource use.  
**Solution:** AI-powered models overcome these challenges by processing extensive environmental, economic, and regulatory datasets. By balancing sustainability metrics with disaster risk assessments, AI optimizes building designs for maximum efficiency. The system analyzes climate trends, material properties, and infrastructure vulnerabilities to recommend durable, cost-effective solutions. This ensures compliance with local construction regulations while promoting environmentally responsible building practices. AI-driven insights enable communities to develop resilient, sustainable infrastructure tailored to regional conditions, reducing risks and long-term maintenance costs.

SCREENSHOTS OF FRONTEND









**IMPLEMENTATION CODE**

* **index.html**

<!DOCTYPE html>

<html lang="en">

    <head>

        <meta charset="UTF-8">

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

        <title>AI-Techture</title>

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

        <script type="text/javascript">

            (function () {

                d = document;

                s = d.createElement("script");

                s.src = "https://webagent.ai/api/chatbot/90bcacb3-38a1-4652-923d-b193c887c616";

                s.async = 1;

                d.getElementsByTagName("head")[0].appendChild(s);

            })();

        </script>

    </head>

    <body>

        <div class="header-container">

            <div class="logo">

                <img src="Vector.svg" alt="AI-Techture Logo">

                <span>AI-TECHTURE</span>

            </div>

            <div class="nav-links">

                <div class="nav-item">

                    <div class="line"></div>

                    <a href="input.html" class="get-started">GET STARTED</a>

                    <div class="line"></div>

                </div>

                <div class="nav-item">

                    <a href="contact.html" class="connect">CONNECT</a>

                </div>

                <div class="nav-item">

                    <a href="index.html" class="about">ABOUT US</a>

                </div>

            </div>

        </div>

        <div id="chatbot-container">

            <iframe

                src="https://webagent.ai/chatbot/embed/90bcacb3-38a1-4652-923d-b193c887c616/classic"

            ></iframe>

        </div>

        <div class="project-section">

            <div class="project-left">

                <div class="project-title">

                    <div class="light-text">PROJECT</div>

                    <div class="bold-text">AI-techture</div>

                </div>

                <a href="input.html" class="btn-grey">Get Started</a>

            </div>

            <div class="project-right">

                <div class="project-image-container">

                    <img src="project3.jpg" alt="Project background" class="background-image">

                </div>

            </div>

        </div>

        <div class="about-section">

            <div class="about-content">

                <div class="about-images">

                    <img src="about1.jpg" alt="About Image 1" class="about-image">

                    <img src="about2.jpg" alt="About Image 2" class="about-image mt">

                </div>

                <div class="about-single-image">

                    <img src="about3.jpg" alt="About Image 3" class="about-image" >

                </div>

                <div class="about-text">

                    <div class="about-title">About</div>

                    <p class="about-description">

                        AI-Techture blends artificial intelligence with architectural innovation to create smarter,

                        more efficient, and sustainable designs. Our team develops AI-driven solutions that optimize

                        planning, enhance adaptability, and push the boundaries of modern architecture. By integrating

                        technology with design, we aim to reshape the future of intelligent spaces, making them more

                        responsive, data-driven, and environmentally conscious. Through innovation and collaboration,

                        we strive to revolutionize how architecture interacts with technology.

                    </p>

                    <button class="read-more">Read More</button>

                </div>

            </div>

        </div>

        <div class="mission-section">

            <div class="mission-title">Mission Objectives:</div>

            <div class="mission-objectives">

                <div class="objective">

                    <div class="objective-number">1</div>

                    <div class="objective-description">

                        Create designs that incorporate structural reinforcements to withstand natural disasters such as earthquakes, floods, or storms.

                    </div>

                </div>

                <div class="objective">

                    <div class="objective-number">2</div>

                    <div class="objective-description">

                        Tailor building designs to local climatic conditions, reducing reliance on artificial heating, cooling, and lighting systems.

                    </div>

                </div>

            </div>

        </div>

        <div class="get-started-section">

            <div class="get-started-content">

                <div class="text-content">

                    <div class="title">Get Started</div>

                    <a href="input.html" class="subtitle">View Our AI</a>

                </div>

            </div>

            <div class="get-started-image">

                <img src="https://cdn.builder.io/api/v1/image/assets/e3ad4091a96743938fc6b142fa34040a/e099a91ff634e84aad95a0e2d0a960b8098983f75fcabe95a81c88c013153967?apiKey=e3ad4091a96743938fc6b142fa34040a&"

                     alt="AI visualization">

            </div>

        </div>

        <div class="project-gallery">

            <div class="gallery-container">

                <div class="thumbnail">

                    <img src="https://cdn.builder.io/api/v1/image/assets/e3ad4091a96743938fc6b142fa34040a/1a783034250cfeb9336b5e59b51b56d23e89205450c662a669976af7097bfc33?apiKey=e3ad4091a96743938fc6b142fa34040a&"

                         alt="Project thumbnail">

                </div>

                <div class="project-preview">

                    <img src="project.jpg" alt="Project background" class="project-image">

                </div>

            </div>

            <button class="all-projects-btn">All Projects</button>

        </div>

    <div id="contact-section">

        <div class="contact-container">

            <div class="contact-form">

                <h1>Contact Us</h1>

                <form>

                    <input type="text" placeholder="Name">

                    <input type="text" placeholder="Phone Number\*" required>

                    <input type="email" placeholder="E-mail\*" required>

                    <input type="text" placeholder="Interested In">

                    <textarea placeholder="Message\*" required></textarea>

                    <button type="submit" class="btn">SEND EMAIL →</button>

                </form>

            </div>

            <div class="contact-image">

                <img src="call.jpg" alt="Person on phone">

            </div>

        </div>

    </div>

    <footer class="footer">

        <div class="footer-container">

            <div class="footer-section logo-section">

                <img src="logo12.png" alt="Logo" class="footer-logo">

            </div>

            <div class="footer-section">

                <h3>Information</h3>

                <ul>

                    <li><a href="index.html">Main</a></li>

                    <li><a href="#">Projects</a></li>

                    <li><a href="contact.html">Contacts</a></li>

                </ul>

            </div>

            <div class="footer-section">

                <h3>Contacts</h3>

                <p>📍 VIT Vellore, Vellore, India</p>

                <p>📞 0123456789</p>

                <p>✉️ contact@aitechture.com</p>

            </div>

            <div class="footer-section social-media">

                <h3>Social Media</h3>

                <div class="social-icons">

                    <a href="#"><img src="facebook.webp" alt="Facebook"></a>

                    <a href="#"><img src="tweet.png" alt="Twitter"></a>

                    <a href="#"><img src="link.webp" alt="LinkedIn"></a>

                    <a href="#"><img src="pin.png" alt="Pinterest"></a>

                </div>

            </div>

        </div>

        <div class="footer-bottom">

            <p>© 2025 All Rights Reserved</p>

        </div>

    </footer>

    <script src="index.js"></script>

    </body>

</html>

* **index.css**

\* {

margin: 0;

padding: 0;

}

body {

font-family: Arial, sans-serif;

background-color: white;

}

.container {

display: flex;

flex-direction: column;

align-items: center;

padding-top: 10px;

overflow: hidden;

}

.header-container {

display: flex;

justify-content: space-between;

align-items: center;

background: white;

width: 100%;

}

.logo {

display: flex;

flex-direction: column;

align-items: center;

text-transform: uppercase;

text-align: center;

font-size: 12px;

font-weight: bold;

color: #1f2937;

letter-spacing: 2.4px;

padding-left: 5px;

padding-top: 5px;

}

.logo img {

height: 40px;

margin-right: 10px;

}

.logo span {

font-size: 14px;

font-weight: bold;

letter-spacing: 2px;

}

.nav-links {

display: flex;

gap: 80px;

}

.nav-item {

display: flex;

flex-direction: column;

align-items: center;

font-size: 12px;

font-weight: bold;

text-transform: uppercase;

color: #1f2937;

letter-spacing: 2.4px;

position: relative;

}

.nav-item:hover {

cursor: pointer;

}

.get-started, .connect, .about {

text-decoration: none;

color: inherit;

font-weight: bold;

padding: 5px 10px;

transition: color 0.3s ease-in-out;

}

.get-started:hover, .connect:hover, .about:hover {

color: #007bff;

}

.line {

width: 68px;

height: 0.5px;

background-color: #1f2937;

margin-bottom: 2px ;

}

#chatbot-container {

position: fixed;

bottom: 20px;

right: 20px;

width: 350px;

height: 500px;

display: none;

box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.2);

border-radius: 10px;

overflow: hidden;

background: white;

}

#chatbot-frame {

width: 100%;

height: 100%;

border: none;

}

#chatbot-toggle {

position: fixed;

bottom: 20px;

right: 20px;

background-color: #ff6600;

color: white;

border: none;

padding: 10px 15px;

font-size: 16px;

cursor: pointer;

border-radius: 50px;

}

#chatbot-toggle:hover {

background-color: #e65c00;

}

.project-section {

display: flex;

gap: 20px;

margin-top: 20px;

}

.project-left {

width: 34%;

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

text-align: center;

height: 100vh;

}

.btn-grey {

background: #b0b0b0;

color: #fff;

font-size: 16px;

font-weight: bold;

padding: 12px 24px;

border: none;

border-radius: 4px;

cursor: pointer;

transition: background 0.3s ease;

text-decoration: none;

}

.btn-grey:hover {

background: #909090;

}

.project-title {

font-size: 4rem;

}

.light-text {

color: #d6d3d1;

font-weight: 300;

}

.bold-text {

color: #27272a;

font-weight: bold;

}

.project-right {

width: 66%;

position: relative;

}

.project-image-container {

position: relative;

width: 100%;

height: 829px;

}

.background-image {

position: absolute;

width: 100%;

height: 100%;

object-fit: cover;

}

.about-section {

background-color: #fafafa;

padding: 40px 80px;

margin-top: 120px;

}

.about-content {

display: flex;

align-items: center;

justify-content: space-between;

gap: 40px;

}

.about-images {

display: flex;

flex-direction: column;

gap: 20px;

width: 50%;

}

.about-image {

width: 100%;

object-fit: cover;

}

.mt {

width: 100%;

height: 120px;

object-fit: cover;

}

.about-text {

width: 50%;

font-weight: 300;

line-height: 1.5;

}

.about-title {

font-size: 4rem;

color: #d6d3d1;

font-weight: 300;

margin-bottom: 20px;

}

.about-description {

font-size: 16px;

color: black;

}

.read-more {

margin-top: 10px;

padding: 12px 36px;

font-size: 12px;

text-transform: uppercase;

background-color: rgb(44, 37, 37);

color: #e5e5ee;

letter-spacing: 2.4px;

border: none;

cursor: pointer;

}

.mission-section {

margin-top: 140px;

}

.mission-title {

font-size: 4rem;

font-weight: 300;

color: #d6d3d1;

}

.mission-objectives {

display: flex;

gap: 40px;

margin-top: 56px;

max-width: 1113px;

}

.objective {

display: flex;

gap: 20px;

align-items: start;

width: 100%;

}

.objective-number {

font-size: 200px;

font-weight: 900;

color: #797980;

width: 22%;

}

.objective-description {

font-size: 24px;

line-height: 1.5;

color: #27272a;

width: 78%;

margin-top: 70px;

}

.get-started-section {

display: flex;

gap: 20px;

max-width: 1100px;

margin-top: 200px;

}

.get-started-content {

width: 55%;

background-color: rgba(24, 24, 27, 0.8);

padding: 48px 80px;

color: white;

display: flex;

flex-direction: column;

align-items: flex-start;

}

.title {

font-size: 3rem;

font-weight: bold;

line-height: 64px;

}

.subtitle {

font-size: 1.5rem;

font-weight: bold;

color: #ebc5c5;

text-decoration: none;

display: inline-block;

padding: 10px 20px;

border: 2px solid #f0e7e7;

border-radius: 5px;

transition: all 0.3s ease-in-out;

}

.subtitle:hover {

background-color: #333;

color: #fff;

cursor: pointer;

}

.get-started-image {

width: 45%;

}

.get-started-image img {

width: 100%;

aspect-ratio: 1.81;

object-fit: contain;

box-shadow: 0px 4px 4px rgba(0, 0, 0, 0.25);

}

.project-gallery {

margin-top: 32px;

width: 100%;

max-width: 1100px;

align-items: center;

}

.gallery-container {

display: flex;

gap: 20px;

}

.thumbnail {

width: 25%;

}

.thumbnail img {

width: 100%;

aspect-ratio: 1.06;

object-fit: contain;

}

.project-preview {

position: relative;

width: 100%;

max-width: 800px;

height: 260px;

overflow: hidden;

}

.project-image {

width: 100%;

height: 100%;

object-fit: cover;

transition: transform 0.3s ease-in-out;

}

.all-projects-btn {

margin-top: 32px;

padding: 32px 64px;

background-color: #18181b;

color: white;

text-transform: uppercase;

font-size: 12px;

letter-spacing: 2.4px;

border: none;

cursor: pointer;

width: 222px;

align-self: flex-end;

}

.contact-section {

padding: 50px 0;

background: white;

}

.contact-container {

display: flex;

max-width: 1100px;

margin: 0 auto;

align-items: stretch;

gap: 20px;

}

.contact-form {

flex: 1;

padding: 40px;

display: flex;

flex-direction: column;

justify-content: space-between;

}

.contact-form h1 {

font-size: 2.5rem;

color: #555;

margin-bottom: 20px;

}

form {

display: flex;

flex-direction: column;

gap: 15px;

}

input, textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

background: #eee;

font-size: 1rem;

outline: none;

}

textarea {

height: 100px;

resize: none;

}

.btn {

background: black;

color: white;

padding: 15px;

border: none;

cursor: pointer;

font-size: 1rem;

text-transform: uppercase;

width: 100%;

}

.btn:hover {

background: #333;

}

.contact-image {

flex: 1.75;

display: flex;

align-items: center;

justify-content: center;

}

.contact-image img {

max-width: 100%;

height: auto;

object-fit: cover;

}

.footer {

background: #2d2b2b;

color: white;

padding: 0px 0;

margin-top: 50px;

width: 100%;

}

.footer-container {

display: flex;

justify-content: space-between;

align-items: flex-start;

margin: 0 auto;

flex-wrap: wrap;

}

.footer-section {

flex: 1;

min-width: 200px;

padding: 10px;

}

.footer-section h3 {

font-size: 18px;

margin-bottom: 10px;

}

.footer-section ul {

list-style: none;

}

.footer-section ul li {

margin: 5px 0;

}

.footer-section ul li a {

text-decoration: none;

color: white;

transition: 0.3s;

}

.footer-section ul li a:hover {

color: #aaa;

}

.footer-section p {

margin: 5px 0;

}

.footer-logo {

max-width: 80px;

}

.social-icons {

display: flex;

gap: 10px;

}

.social-icons img {

width: 24px;

height: 24px;

transition: 0.3s;

}

.social-icons img:hover {

opacity: 0.7;

}

.footer-bottom {

text-align: center;

padding-top: 10px;

padding-bottom: 5px;

border-top: 1px solid #444;

margin-top: 20px;

font-size: 14px;

color: #aaa;

}

* **index.js**

document.addEventListener("DOMContentLoaded", function () {

const form = document.querySelector(".contact-form form");

const nameInput = document.querySelector("input[placeholder='Name']");

const phoneInput = document.querySelector("input[placeholder='Phone Number\*']");

const emailInput = document.querySelector("input[placeholder='E-mail\*']");

const interestInput = document.querySelector("input[placeholder='Interested In']");

const messageInput = document.querySelector("textarea[placeholder='Message\*']");

form.addEventListener("submit", function (event) {

event.preventDefault();

const name = nameInput.value;

const phone = phoneInput.value;

const email = emailInput.value;

const interest = interestInput.value;

const message = messageInput.value;

const phonePattern = /^\d{10}$/;

if (!phonePattern.test(phone)) {

alert("Phone number must be exactly 10 digits.");

return;

}

const emailPattern = /^[a-zA-Z0-9.\_%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

if (!emailPattern.test(email)) {

alert("Please enter a valid email address (e.g., example@domain.com).");

return;

}

if (!name || !phone || !email || !message) {

alert("Please fill out all required fields!");

return;

}

form.reset();

alert("Thank you for contacting us! We will get back to you soon.");

});

});

* **input.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>AI-Techture</title>

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

</head>

<body>

<div class="container">

<div class="header-container">

<div class="logo">

<img src="Vector.svg" alt="AI-Techture Logo">

<span>AI-TECHTURE</span>

</div>

<div class="nav-links">

<div class="nav-item">

<div class="line"></div>

<a href="input.html" class="get-started">GET STARTED</a>

<div class="line"></div>

</div>

<div class="nav-item">

<a href="contact.html" class="connect">CONNECT</a>

</div>

<div class="nav-item">

<a href="index.html" class="about">ABOUT US</a>

</div>

</div>

</div>

<div class="divider"></div>

<div class="title-section">

<h1 class="light-text" >Let AI take control</h1>

<h1 class="bold-text">AI-techture.</h1>

</div>

<div class="location-container">

<div class="location-title">Enter your Location:</div>

<form class="location-form">

<div class="input-group">

<input

type="text"

class="location-input"

placeholder="Latitude"

aria-label="Enter Latitude"

/>

<input

type="text"

class="location-input"

placeholder="Longitude"

aria-label="Enter Longitude"

/>

</div>

<div class="or-text">or</div>

<input

type="text"

class="location-input"

placeholder="Enter PINCODE"

aria-label="Enter Location"

/>

</form>

</div>

<footer class="footer">

<div class="footer-container">

<div class="footer-section logo-section">

<img src="logo12.png" alt="Logo" class="footer-logo">

</div>

<div class="footer-section">

<h3>Information</h3>

<ul>

<li><a href="index.html">Main</a></li>

<li><a href="#">Projects</a></li>

<li><a href="contact.html">Contacts</a></li>

</ul>

</div>

<div class="footer-section">

<h3>Contacts</h3>

<p>📍 VIT Vellore, Vellore, India</p>

<p>📞 0123456789</p>

<p>✉️ contact@aitechture.com</p>

</div>

<div class="footer-section social-media">

<h3>Social Media</h3>

<div class="social-icons">

<a href="#"><img src="facebook.webp" alt="Facebook"></a>

<a href="#"><img src="tweet.png" alt="Twitter"></a>

<a href="#"><img src="link.webp" alt="LinkedIn"></a>

<a href="#"><img src="pin.png" alt="Pinterest"></a>

</div>

</div>

</div>

<div class="footer-bottom">

<p>© 2025 All Rights Reserved</p>

</div>

</footer>

</div>

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

</body>

</html>

* **input.css**

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: white;

color: black;

}

.container {

margin: 0 auto;

padding-top: 20px;

}

.header-container {

display: flex;

justify-content: space-between;

align-items: center;

background: white;

width: 100%;

}

.logo {

display: flex;

flex-direction: column;

align-items: center;

text-transform: uppercase;

text-align: center;

font-size: 12px;

font-weight: bold;

color: #1f2937;

letter-spacing: 2.4px;

padding-left: 5px;

padding-top: 5px;

}

.logo img {

height: 40px;

margin-right: 10px;

}

.logo span {

font-size: 14px;

font-weight: bold;

letter-spacing: 2px;

}

.nav-links {

display: flex;

gap: 80px;

}

.nav-item {

display: flex;

flex-direction: column;

align-items: center;

font-size: 12px;

font-weight: bold;

text-transform: uppercase;

color: #1f2937;

letter-spacing: 2.4px;

position: relative;

}

.nav-item:hover {

cursor: pointer;

}

.get-started, .connect, .about {

text-decoration: none;

color: inherit;

font-weight: bold;

padding: 5px 10px;

transition: color 0.3s ease-in-out;

}

.get-started:hover, .connect:hover, .about:hover {

color: #007bff;

}

.line {

width: 68px;

height: 0.5px;

background-color: #1f2937;

margin-bottom: 2px ;

}

.title-section {

display: flex;

flex-direction: column;

justify-content: center;

align-items: center;

text-align: center;

}

.light-text {

color: #888888;

}

.location-container {

text-align: center;

margin-top: 40px;

}

.location-title {

font-size: 24px;

font-weight: 300;

}

.location-form {

display: flex;

flex-direction: column;

align-items: center;

margin-top: 20px;

}

.input-group {

display: flex;

gap: 10px;

align-items: center;

}

.location-input {

padding: 15px;

border-radius: 10px;

border: 1px solid #ccc;

font-size: 16px;

text-align: center;

width: 150px;

}

.or-text {

font-size: 20px;

font-weight: bold;

margin-top: 10px;

}

/\* Footer \*/

.footer {

background: #2d2b2b;

color: white;

padding: 0 0;

margin-top: 50px;

margin-bottom:-15px;

}

.footer-container {

display: flex;

justify-content: space-between;

align-items: flex-start;

max-width: 1100px;

margin: 0 auto;

flex-wrap: wrap;

}

.footer-section {

flex: 1;

min-width: 200px;

padding: 10px;

}

.footer-section h3 {

font-size: 18px;

margin-bottom: 10px;

}

.footer-section ul {

list-style: none;

}

.footer-section ul li {

margin: 5px 0;

}

.footer-section ul li a {

text-decoration: none;

color: white;

transition: 0.3s;

}

.footer-section ul li a:hover {

color: #aaa;

}

.footer-section p {

margin: 5px 0;

}

.footer-logo {

max-width: 80px;

}

.social-icons {

display: flex;

gap: 10px;

}

.social-icons img {

width: 24px;

height: 24px;

transition: 0.3s;

}

.social-icons img:hover {

opacity: 0.7;

}

.footer-bottom {

text-align: center;

padding-top: 10px;

border-top: 1px solid #444;

font-size: 14px;

color: #aaa;

}

* **input.js**

document.addEventListener("DOMContentLoaded", function() {

const form = document.querySelector(".location-form");

const latInput = document.querySelector("input[placeholder='Latitude']");

const lngInput = document.querySelector("input[placeholder='Longitude']");

const pincodeInput = document.querySelector("input[placeholder='Enter PINCODE']");

function validateLatitude(lat) {

const num = parseFloat(lat);

return !isNaN(num) && num >= -90 && num <= 90;

}

function validateLongitude(lng) {

const num = parseFloat(lng);

return !isNaN(num) && num >= -180 && num <= 180;

}

function validatePincode(pin) {

return /^\d{6}$/.test(pin);

}

function handleSubmit() {

const lat = latInput.value.trim();

const lng = lngInput.value.trim();

const pin = pincodeInput.value.trim();

if (lat || lng) {

if (!lat || !lng) {

alert("Please provide both latitude and longitude");

return;

}

if (!validateLatitude(lat)) {

alert("Invalid latitude! Must be between -90 and 90");

return;

}

if (!validateLongitude(lng)) {

alert("Invalid longitude! Must be between -180 and 180");

return;

}

alert(`Location submitted: Latitude ${lat}, Longitude ${lng}`);

}

else if (pin) {

if (!validatePincode(pin)) {

alert("Invalid pincode! Must be 6 digits");

return;

}

alert(`Pincode submitted: ${pin}`);

}

else {

alert("Please enter either coordinates or pincode");

}

}

pincodeInput.addEventListener("input", function() {

this.value = this.value.replace(/\D/g, "");

});

form.addEventListener("keypress", function(e) {

if (e.key === "Enter") {

e.preventDefault();

handleSubmit();

}

});

form.addEventListener("submit", function(e) {

e.preventDefault();

handleSubmit();

});

});

* **contact.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>AI-techture</title>

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

<script defer src="contact.css"></script>

</head>

<body>

<div class="header-container">

<div class="logo">

<img src="Vector.svg" alt="AI-Techture Logo">

<span>AI-TECHTURE</span>

</div>

<div class="nav-links">

<div class="nav-item">

<div class="line"></div>

<a href="input.html" class="get-started">GET STARTED</a>

<div class="line"></div>

</div>

<div class="nav-item">

<a href="contact.html" class="connect">CONNECT</a>

</div>

<div class="nav-item">

<a href="index.html" class="about">ABOUT US</a>

</div>

</div>

</div>

<div class="contact-container">

<div class="contact-left">

<div class="contact-header">

<div class="contact-title-light">Contact</div>

<div class="contact-title-bold">Information</div>

</div>

<div class="contact-details">

<span class="contact-name">AI-techture</span><br>

<span class="contact-address">VIT-TBI, VIT, Vellore, Tamil Nadu</span>

</div>

<div class="contact-phone">0123456789</div>

<div class="contact-email">contact@aitechture.com</div>

<button class="contact-button" onclick="location.href='index.html#contact-section'">Contact US</button>

</div>

<div class="contact-right">

<img class="contact-image" src="https://cdn.builder.io/api/v1/image/assets/e3ad4091a96743938fc6b142fa34040a/8dced059f611114aadb304fcdc0c2f023c1016c0a060fe327bb5da63b5c80aad?apiKey=e3ad4091a96743938fc6b142fa34040a&" alt="Contact visual representation">

</div>

</div>

<footer class="footer">

<div class="footer-container">

<div class="footer-section logo-section">

<img src="logo12.png" alt="Logo" class="footer-logo">

</div>

<div class="footer-section">

<h3>Information</h3>

<ul>

<li><a href="index.html">Main</a></li>

<li><a href="#">Projects</a></li>

<li><a href="contact.html">Contacts</a></li>

</ul>

</div>

<div class="footer-section">

<h3>Contacts</h3>

<p>📍 VIT Vellore, Vellore, India</p>

<p>📞 0123456789</p>

<p>✉️ contact@aitechture.com</p>

</div>

<div class="footer-section social-media">

<h3>Social Media</h3>

<div class="social-icons">

<a href="#"><img src="facebook.webp" alt="Facebook"></a>

<a href="#"><img src="tweet.png" alt="Twitter"></a>

<a href="#"><img src="link.webp" alt="LinkedIn"></a>

<a href="#"><img src="pin.png" alt="Pinterest"></a>

</div>

</div>

</div>

<div class="footer-bottom">

<p>© 2025 All Rights Reserved</p>

</div>

</footer>

</body>

</html>

* **contact.css**

\*{

margin: 0;

padding: 0;

}

body {

font-family: Arial, sans-serif;

}

.contact-container {

display: flex;

flex-direction: row;

align-items: start;

margin: auto;

}

.header-container {

display: flex;

justify-content: space-between;

align-items: center;

background: white;

width: 100%;

}

.logo {

display: flex;

flex-direction: column;

align-items: center;

text-transform: uppercase;

text-align: center;

font-size: 12px;

font-weight: bold;

color: #1f2937;

letter-spacing: 2.4px;

padding-left: 5px;

padding-top: 5px;

}

.logo img {

height: 40px;

margin-right: 10px;

}

.logo span {

font-size: 14px;

font-weight: bold;

letter-spacing: 2px;

}

.nav-links {

display: flex;

gap: 80px;

}

.nav-item {

display: flex;

flex-direction: column;

align-items: center;

font-size: 12px;

font-weight: bold;

text-transform: uppercase;

color: #1f2937;

letter-spacing: 2.4px;

position: relative;

}

.nav-item:hover {

cursor: pointer;

}

.get-started, .connect, .about {

text-decoration: none;

color: inherit;

font-weight: bold;

padding: 5px 10px;

transition: color 0.3s ease-in-out;

}

.get-started:hover, .connect:hover, .about:hover {

color: #007bff;

}

.line {

width: 68px;

height: 0.5px;

background-color: #1f2937;

margin-bottom: 2px ;

}

/\* Container Styling \*/

.contact-left, .contact-right {

width: 50%;

}

/\* Contact Section \*/

.contact-left {

display: flex;

flex-direction: column;

justify-content: center;

padding: 20px;

}

.contact-header {

margin-bottom: 15px;

}

.contact-title-light {

font-size: 24px;

color: #888;

}

.contact-title-bold {

font-size: 32px;

font-weight: bold;

color: #0c0c0c;

}

.contact-details {

margin-bottom: 10px;

}

.contact-name {

font-size: 18px;

font-weight: bold;

}

.contact-address, .contact-phone, .contact-email {

font-size: 16px;

color: #555;

margin: 5px 0;

}

.contact-button {

background-color: #111111;

color: white;

border: none;

padding: 10px 15px;

font-size: 16px;

cursor: pointer;

border-radius: 5px;

margin-top: 15px;

}

.contact-button:hover {

background-color: #4b4b4a;

}

/\* Contact Right (Image Section) \*/

.contact-right {

display: flex;

justify-content: center;

align-items: center;

}

.contact-image {

max-width: 80%; /\* Adjusts image to fit inside its container \*/

height: 50%; /\* Maintains aspect ratio \*/

border-radius: 10px;

}

/\* Footer \*/

.footer {

background: #2d2b2b;

color: white;

padding: 40px 0 0 0;

margin-top: 50px;

width: 100%;

}

.footer-container {

display: flex;

justify-content: space-between;

align-items: flex-start;

max-width: 1100px;

flex-wrap: wrap;

}

.footer-section {

flex: 1;

min-width: 200px;

padding: 10px;

}

.footer-section h3 {

font-size: 18px;

margin-bottom: 10px;

}

.footer-section ul {

list-style: none;

}

.footer-section ul li {

margin: 5px 0;

}

.footer-section ul li a {

text-decoration: none;

color: white;

transition: 0.3s;

}

.footer-section ul li a:hover {

color: #aaa;

}

.footer-section p {

margin: 5px 0;

}

.footer-logo {

max-width: 80px;

}

.social-icons {

display: flex;

gap: 10px;

}

.social-icons img {

width: 24px;

height: 24px;

transition: 0.3s;

}

.social-icons img:hover {

opacity: 0.7;

}

.footer-bottom {

text-align: center;

padding-top: 10px;

padding-bottom: 5px;

border-top: 1px solid #444;

margin-top: 20px;

font-size: 14px;

color: #aaa;

}

**CONCLUSION**

The Front-End Project successfully demonstrates the integration of modern web development techniques with AI-driven functionalities to deliver a highly interactive and user-friendly web application. Through the use of HTML, CSS, and JavaScript, combined with third-party services like WebAgent.AI and Builder.io, the project achieves an efficient, dynamic, and aesthetically pleasing interface.

The modular and component-based structure of the codebase ensures ease of maintenance and scalability, while the responsive design guarantees compatibility across various devices and screen sizes. The inclusion of an AI-powered chatbot not only enhances user engagement but also showcases the potential of blending artificial intelligence with web development.

By focusing on both functionality and design, this project serves as a comprehensive solution that aligns with current industry standards and best practices. Moving forward, further improvements and expansions could include incorporating additional AI features and enhancing real-time interaction capabilities, making the application even more versatile and adaptive.