

A
Mini Project Report
On

“DESIGN-VISTA WEBSITE”

Presented by
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TY-A
Department of Third Year Engineering
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Guided By

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Submitted to



MGM's College of Engineering, Nanded

Under

Dr. Babasaheb Ambedkar Technological University, Lonere

CERTIFICATE

“DESIGN-VISTA WEBSITE”

Presented by

Ambika Shivkumar Gangawar
Shrutika Avdhutrao Deshmukh

TY-A[CSE]

in satisfactory manner as a partial fulfillment
of Third Year Engineering

To

MGM’s College of Engineering, Nanded
Under

Dr. Babasaheb Ambedkar Technological University, Lonere

Has been carried out under my guidance,

Ms. Savita S. Wagre
Seminar Guide

Dr. A. M. Rajurkar
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MGM’s College of Engineering, Nanded

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With Deep Reverence,
65_ Ambika Gangawar
67_ Shrutika Deshmukh

ABSTRACT

Welcome to “DESIGN-VISTA”, an all-encompassing platform designed to cater to every aspect of your interior design journey. Our website boasts an extensive and meticulously curated selection of furniture and decorative designs, providing customers with a diverse range of options to suit various tastes and preferences. A seamless and user-friendly interface allows users to effortlessly navigate our catalog, add their preferred items to the cart, and make secure transactions, ensuring a hassle-free shopping experience. More than just a marketplace, “DESIGN-VISTA” extends its offerings to include personalized interior design services. Our seasoned team of experts is ready to collaborate with clients, offering tailored solutions to transform their living spaces into unique reflections of their individual style and personality. From virtual consultations to on-site implementations, our comprehensive suite of services ensures that every step of the interior design process is handled with expertise and care. Embrace the fusion of curated elegance and personalized design “DESIGN-VISTA”, where your dream space awaits just a click away.

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INTRODUCTION

1.1 Introduction

Design-Vista emerges as a visionary sanctuary where innovation intertwines seamlessly with functionality, birthing a realm where design becomes an expression of individuality. It's a creative nexus where the artistry of design isn't confined by boundaries but thrives in the synthesis of creativity and utility. At its core, Design-Vista reimagines the conventional norms of interior design, transcending the mundane to craft personalized narratives that mirror the unique tastes, stories, and preferences of each client.

With an unwavering commitment to originality, Design-Vista doesn't merely design spaces; it orchestrates an immersive journey where every contour, texture, and hue harmonizes to create an eloquent language of design. This approach views interior design not as a mere amalgamation of aesthetics and functionality but as an immersive art form that speaks to the soul of a space. By delicately balancing the practicality of functionality with the finesse of aesthetics, Design-Vista breathes life into rooms, transforming them into living, breathing manifestations of style and sophistication.

Every stroke of creativity within Design-Vista's canvas of design encapsulates a deliberate endeavor to infuse spaces with rejuvenation, warmth, and allure. It is an artistic endeavor where every design element embodies a purposeful narrative, beckoning to tell a story that resonates profoundly with its inhabitants. In this visionary space, Design-Vista invites clients to embark on an enriching journey of self-expression, where their aspirations find a visual resonance and spaces become an eloquent reflection of their dreams and lifestyles.

1.2 Benefits

Design-Vista stands as an embodiment of tailored design experiences, prioritizing the translation of individual visions into tangible, captivating realities. By delving into the intricate intricacies of each client's desires, preferences, and lifestyle nuances, Design-

Vista crafts bespoke design solutions that resonate profoundly with their essence. This personalized approach goes beyond aesthetics, inviting clients to actively participate in the creative process. Through collaborative efforts, client input forms the cornerstone of every design endeavor, ensuring that each space becomes a unique reflection of their individuality.

Beyond the mere creation of aesthetically pleasing spaces, Design-Vista is dedicated to enhancing the very essence of living and working environments. Thoughtful designs curated with a meticulous attention to detail are envisioned not just as visual spectacles but as transformative agents that elevate the quality of life. Be it a cozy home sanctuary, an inspiring office landscape, or a dynamic commercial setting, the designs transcend mere beauty to foster functionality, comfort, and a sense of well-being. Design-Vista's commitment lies in crafting spaces that not only appeal to the eye but also enrich the daily experiences and interactions within them.

The journey with Design-Vista isn't merely a transactional process; it's an immersive expedition into the transformative power of thoughtful design. With a rich tapestry of past projects as testaments, clients are invited to witness firsthand how considered design choices can metamorphose spaces. By showcasing successful transformations from previous collaborations, Design-Vista illustrates the potent impact that purposeful design can have on reshaping environments. This immersive journey isn't solely about end results but also about unveiling the potential of spaces, igniting a spark of inspiration and anticipation for the possibilities within each client's own project.

Design-Vista redefines convenience by offering a seamless shopping experience through its online platform. The user-friendly interface opens a gateway to curated collections of furniture and decor, granting clients effortless access to pieces that perfectly complement their envisioned spaces. This online shopping cart feature streamlines the design journey, allowing clients to explore, select, and procure curated items from the comfort of their homes. Emphasizing hassle-free navigation and a simplified checkout process, Design-Vista ensures that the design pursuit becomes a gratifying and efficient experience, culminating in the realization of envisioned design aspirations.

1.3 Future Scope

Design-Vista, positioned at the forefront of the design realm, envisions a future shaped by innovation and creative evolution. With an unwavering commitment to pioneering design trends, the company endeavors to seamlessly blend the allure of aesthetics with functional brilliance, ensuring spaces remain not just visually captivating but also purposeful. A key focus lies in the integration of advanced technologies, envisaging an immersive and inclusive design experience that transcends boundaries, making design accessible to a wider audience.

In line with its growth trajectory, Design-Vista strategizes expansion into unexplored design territories, fostering collaborations to diversify its spectrum of offerings. This approach aims to embrace diverse design cultures and unlock new possibilities for creative expression. Moreover, the company places a paramount emphasis on sustainability, recognizing the imperative to champion eco-conscious practices. Design-Vista pledges to spearhead sustainable design initiatives, prioritizing the integration of environmentally friendly solutions into forthcoming projects. By advocating for responsible design, the company aims not only to craft visually stunning spaces but also to make a positive impact on the environment, thus exemplifying a harmonious fusion of design innovation and environmental stewardship.

Project Overview

2.1. Introduction:

The project involves the development of an interior design e-commerce website that focuses on showcasing furniture, decorative designs, and related services. The website aims to provide users with a seamless experience to explore, select, and purchase furniture and decorative items for their homes or offices. In a world where personalization and aesthetic appeal play a crucial role in creating inviting living spaces, our interior design e-commerce platform emerges as a sophisticated solution. This online hub is dedicated to providing users with a curated selection of exquisite furniture, captivating decorative designs, and tailored interior design services. By seamlessly blending form and function, our platform seeks to redefine the way individuals conceptualize and enhance their living and working environments.

2.2. Project Goals:

The primary goal of this project is to establish a user-centric interior design e-commerce platform that transcends the traditional boundaries of online furniture shopping. We aim to create an immersive experience that not only showcases a diverse range of high-quality products but also integrates seamlessly with personalized interior design services. Our goal is to inspire and empower users to transform their spaces into expressions of their unique styles and preferences.

2.3. Key Features:

- **Product Catalog:**

Categorization of products into furniture and decorative designs. High-quality images and detailed descriptions for each product. Filtering options based on categories, styles, and price ranges.

- **Shopping Cart:**
 - Users can add items to their shopping cart.
 - View and modify the contents of the cart.
 - Quantity adjustments and removal of items from the cart.
- **User Accounts:**
 - User registration and login functionality.
 - User profiles to track order history and preferences.
- **Checkout Process:**
 - Seamless and secure checkout process.
 - Multiple payment options (credit card, PayPal, etc.).
 - Order confirmation and email notifications.
- **Search Functionality:**
 - Efficient search bar for users to find specific products quickly.
- **Responsive Design:**
 - The website should be accessible and user-friendly across various devices (desktop, tablet, mobile).
- **Decor Services:**
 - Apart from selling products, the website will offer interior design services.
 - Users can inquire about personalized design consultations.
- **Admin Panel:**
 - An admin panel for site administrators to manage products, user accounts, and orders.
 - Inventory management to track stock levels and product availability.
 - Sales and performance analytics.
- **Security Measures:**
 - Implement secure protocols for user data and payment information.
 - Regular security audits to identify and address vulnerabilities.

- **Future Enhancements:**

- Consideration for future updates, new product additions, and additional features based on user feedback.

2.4. Technical Requirements:

Frontend: HTML, CSS, JavaScript(or other suitable frontend framework).

Backend : PHP

Database: MySQL.

Design and User Interface

3.1 User Login Page

The functionality of a login page on an alternative medicine website would typically be like login pages on other websites. Here are the common functions you would find:

- **User Authentication:**

Verify the user's identity using a unique username and a password.

Implement secure authentication protocols to protect user data.

- **Registration:**

The functionality of a login page on an alternative medicine website would typically be like login pages on other websites. Here are the common functions you would find:

- **User Authentication:**

Verify the user's identity using a unique username and a password.

Implement secure authentication protocols to protect user data.

- **Registration:**

Allow new users to create accounts by providing necessary information.

- **Error Handling:**

Display clear error messages for unsuccessful login attempts or other issues.

Prevent information disclosure by avoiding specific error messages that reveal too much about the failure.

- **Accessibility:**

Ensure the login page is accessible to users with disabilities, adhering to accessibility standards.

- **Responsive Design:**

Make sure the login page is responsive and works well on various devices, including mobile phones and tablets.

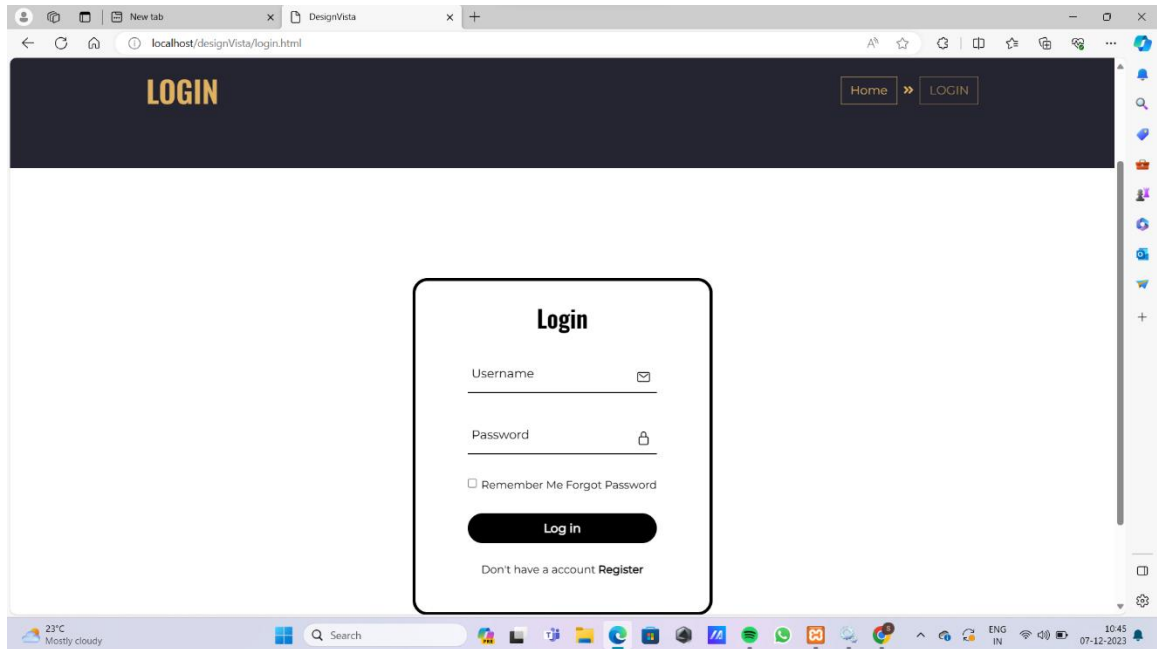


Fig 3.1: User Login Page

3.2 Register Page

The registration page of the interior design e-commerce website is a critical component for onboarding new users. Here are the key functionalities for the registration page.

- **User Registration Form:**
Provide a user-friendly registration form where new users can enter their information.
Fields may include name, email address, password, and any other relevant details.
- **Password Strength Indicator:**
Implement a password strength indicator to guide users in creating secure passwords.
Display visual cues indicating the strength of the chosen password.
- **Email Verification:**
Send a verification email to the provided email address to confirm its validity.
Include a unique verification link for users to click and activate their accounts.

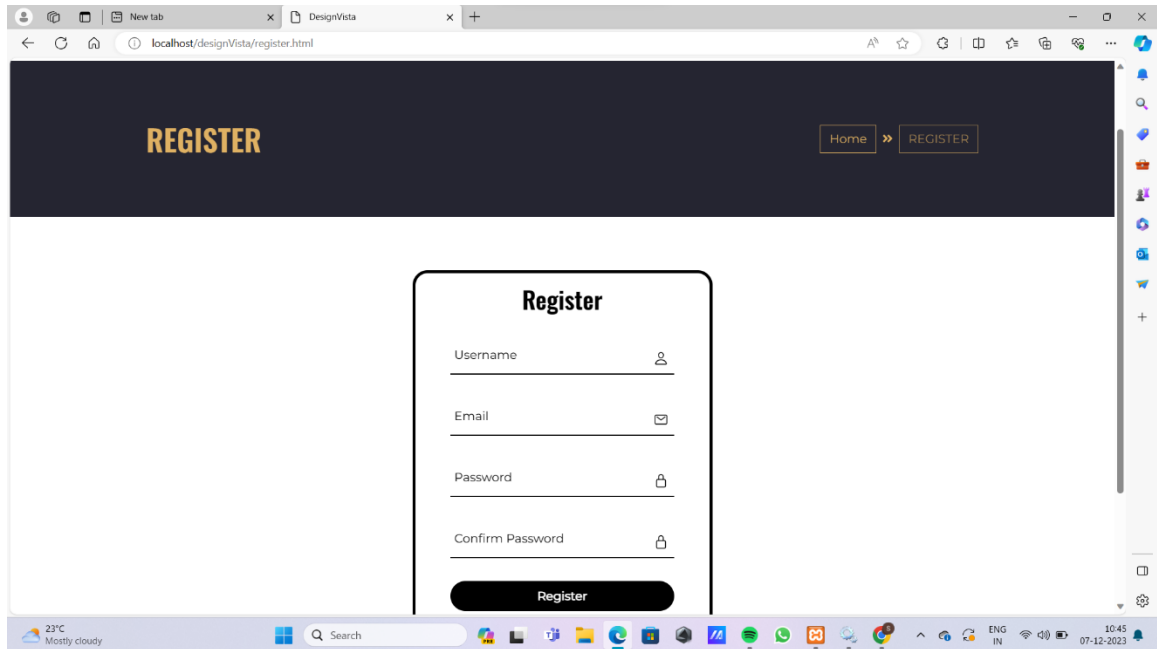


Fig 3.2: Register Page

3.3 Home Page

The homepage of the interior design e-commerce website serves as the initial point of interaction for users, aiming to captivate their attention, provide easy navigation, and showcase the essence of the brand. Here are the key functionalities for the homepage:

- **Visually Engaging Hero Section:**

Feature a visually stunning hero section with high-quality images representing the brand's aesthetic and style.

Include concise and compelling taglines or promotional messages to immediately capture the user's interest.

- **Clear Navigation Menu:**

Implement a clear and intuitive navigation menu that categorizes products, services, and essential sections of the website.

Ensure easy access to key pages, such as product catalog, interior design services, cart, and user account.

- **Featured Products and Collections:**

Showcase featured products or collections on the homepage to highlight popular items or new arrivals.

Utilize high-quality images and concise product descriptions to entice users to explore further.

- **Interior Design Services Section:**

Dedicate a section to personalized interior design services, providing a brief overview and encouraging users to learn more or schedule consultations.

Include images or examples of completed design projects to showcase the expertise of the design team.

- **Customer Testimonials:**

Display customer testimonials or reviews to build trust and credibility.

Include images or names of satisfied customers to add a personal touch.

- **Interactive Elements:**

Incorporate interactive elements such as sliders, image galleries, or interactive product displays to enhance user engagement.

Ensure these elements are responsive and optimized for various devices.

- **Search Bar:**

Integrate a prominent search bar for users to quickly find specific products or services. Implement auto-suggestions to enhance the search experience.

- **Mobile Responsiveness:**

Ensure the homepage design is responsive and optimized for various devices, including mobile phones and tablets. By incorporating these functionalities, the homepage becomes a dynamic and engaging entry point for users.

Enticing them to explore the website further and fostering a positive first impression of the interior design e-commerce platform.

- **Social Media Integration:**

Include social media buttons or feeds to showcase the brand's presence on platforms like Instagram, Pinterest, or Facebook.

Encourage users to follow and share their favorite products or design inspirations.

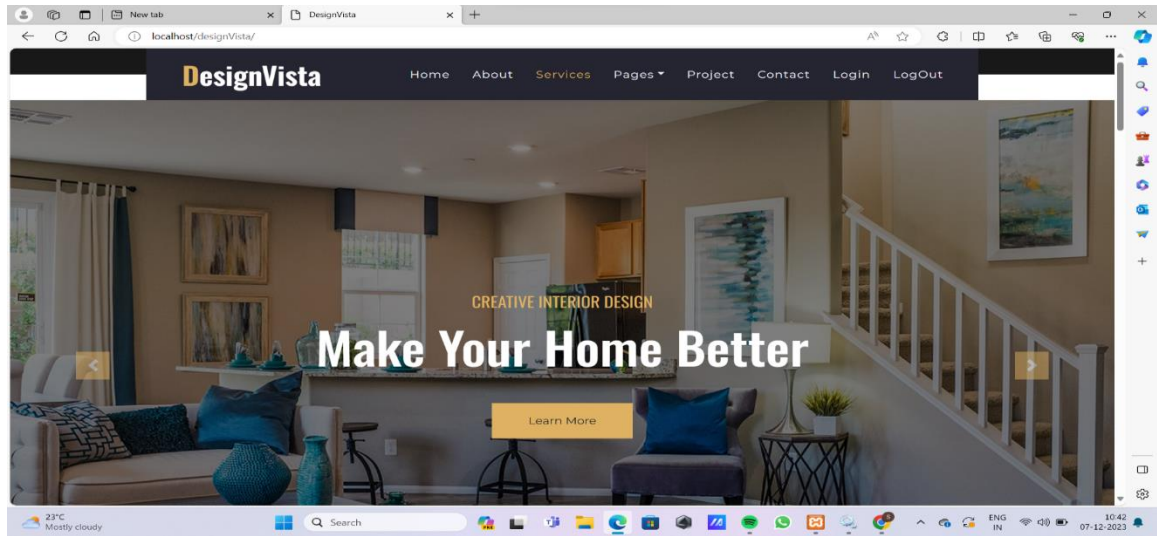


Fig 3.3: Home Page

3.4 Contact Page

The contact page is an important section of a website that allows visitors to get in touch. with the website owner, business, or organization. It provides a platform for users. to communicate, make inquiries, request support, or provide feedback.

Contact Information:

The contact page prominently displays essential contact information, such as the organization's name, physical address, phone number, and email address. This information allows visitors to choose their preferred method of communication, whether it's via phone, email, or in-person visits.

The contact page serves as a vital communication channel between the website and its visitors. By providing clear contact information, a user-friendly contact form, guidelines, and relevant resources, the contact page enables effective communication and fosters a positive user experience.

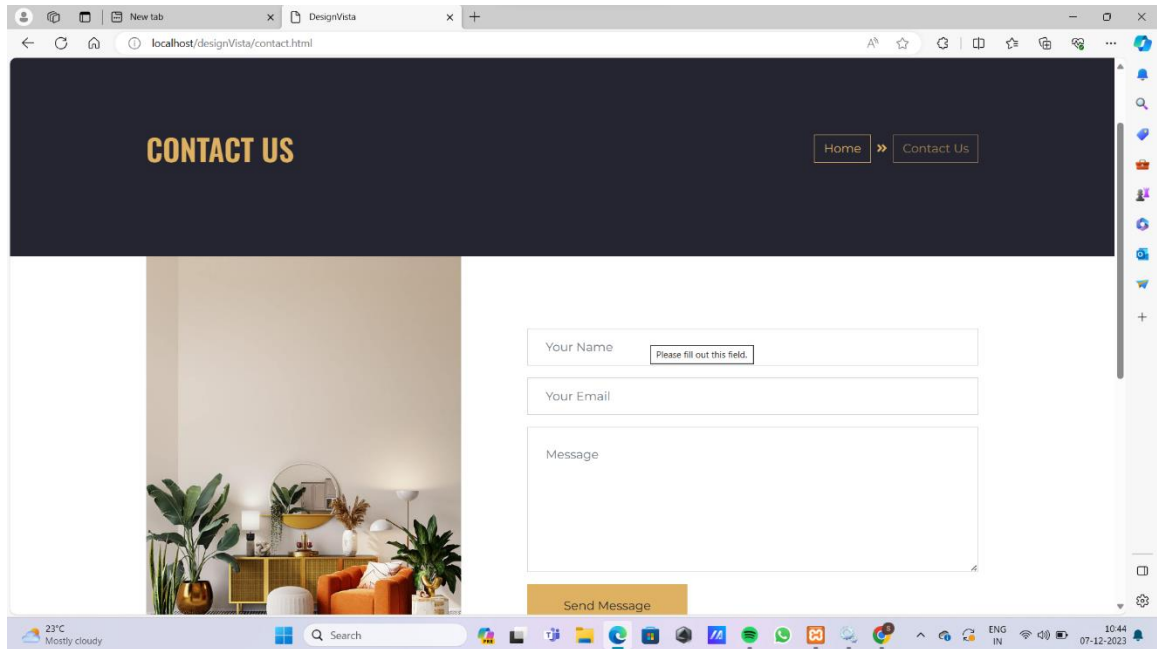


Fig 3.4: Contact Page

3.5 About us Page

The "About Us" page on the interior design e-commerce website plays a crucial role

Brand Story and History:

Provide a compelling narrative that shares the brand's origin, mission, and values.

Share the journey of how the brand started and its evolution over time.

- **Founder or Team Introduction:**

Introduce key individuals, founders, or the core team behind the brand.

Include brief bios, showcasing their expertise in the field of interior design.

- **Interactive Elements:**

Incorporate interactive elements such as images, videos, or infographics to make the page visually engaging.

- **Contact Information:**

Provide contact information for users who want to get in touch with the brand for inquiries or collaborations.

Include links to social media profiles for additional points of connection.

- **Responsive Design:**

Ensure that the "About Us" page is responsive and accessible across various devices for a consistent user experience.

By incorporating these functionalities, the "About Us" page becomes a comprehensive and compelling resource that not only informs users about the brand's story and values but also establishes a sense of trust and connection with the interior design e-commerce platform.

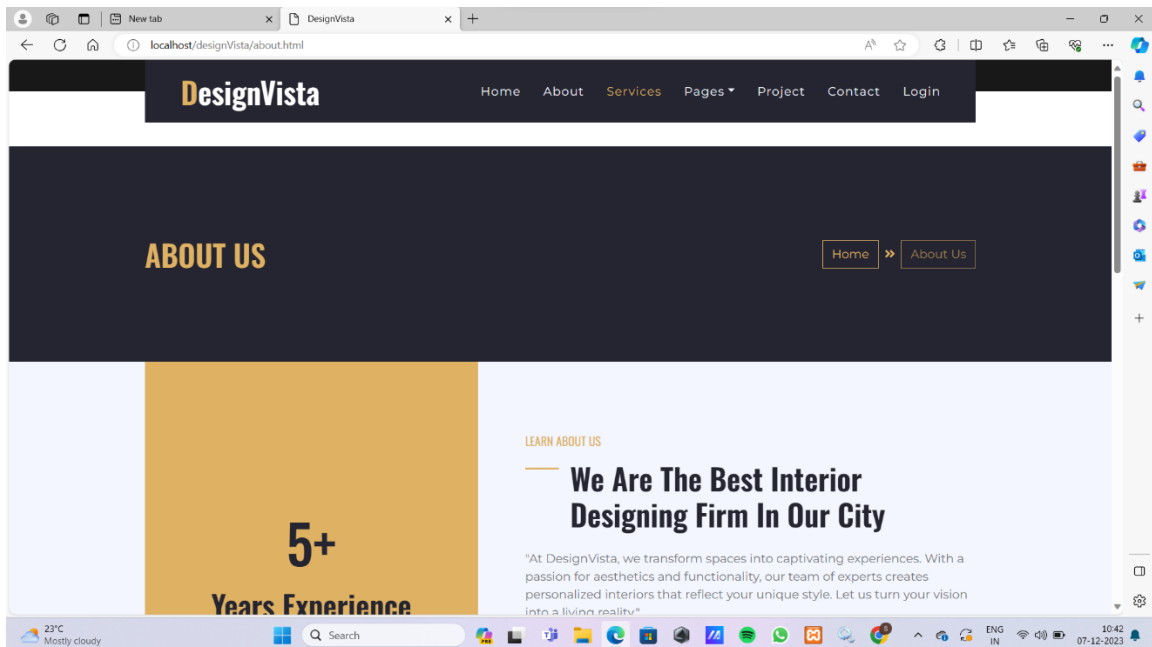


Fig 3.5: About us Page

3.6 Cart page

The shopping cart functionality in the interior design e-commerce website is a critical component that enables users to gather and manage their selected items before proceeding to checkout. Below are the key functionalities of the cart:

- **Add to Cart:**

Users should be able to easily add products to their shopping cart from product pages.

Implement an intuitive and visible "Add to Cart" button associated with each product.

- **View Cart:**

Provide users with a dedicated page or modal to view the contents of their shopping cart.

Display product images, names, quantities, prices, and a subtotal for each item.
- **Edit Cart Items:**

Allow users to adjust the quantity of items in the cart or remove products altogether.

Provide intuitive controls, such as plus and minus buttons for quantity adjustments.
- **Cart Summary:**

Display a summary of the cart, including the total number of items and the total cost.

Update the summary dynamically as users make changes to their cart.
- **Continue Shopping:**

Include an option for users to continue shopping from the cart page.

Provide a link or button to easily navigate back to the product catalog.
- **Cart Persistence:**

Ensure that the cart remains persistent across user sessions. Users should not lose their cart contents upon logging in or navigating away from the site.
- **Responsive Design:**

Design the cart to be responsive across various devices to provide a consistent user experience.

Ensure that the cart is accessible and functional on desktops, tablets, and mobile devices.
- **Shipping Information:**

Collect and display shipping information in the cart summary, providing users with estimated shipping costs.

Implement an address validation system to ensure accuracy.

- **Secure Transactions:**

Integrate secure payment gateways to handle transactions securely.

Communicate trust and security to users throughout the checkout process.

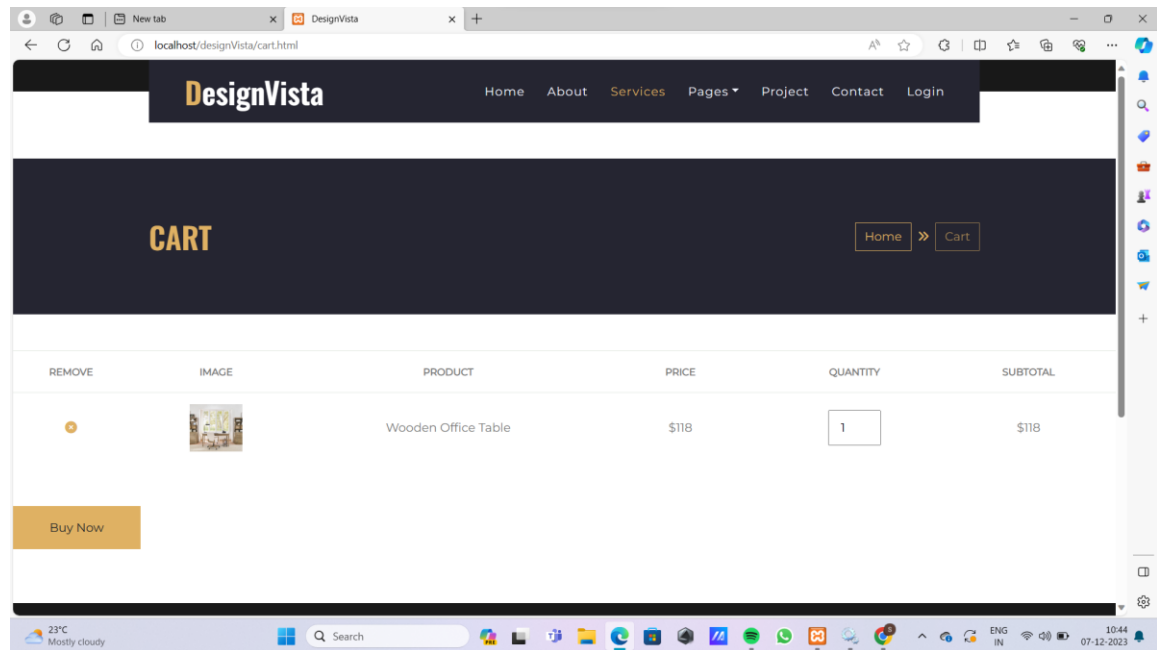


Fig 3.6 : Cart page

3.7 Services page

The services section of the interior design e-commerce website plays a crucial role in offering users personalized and expert guidance for creating aesthetically pleasing living spaces. Here are the key functionalities of the services section:

- **Service Categories:**

Categorize services based on user needs, such as room design, furniture selection, color schemes, and overall design consultations.

Clearly outline the scope and details of each service category.

- **Communication Platform:**

Integrate a communication platform for users to interact with designers, ask questions, and share details about their preferences.

Ensure secure and private communication channels.

- **Personalized Design Recommendations:**

Offer users personalized design recommendations based on their preferences, budget, and the scope of the project.

Provide visual representations, mood boards, or sketches to illustrate design ideas.

- **Feedback and Reviews:**

Implement a system for users to leave feedback and reviews for the interior design services they receive.

Display positive testimonials to build trust and credibility.

- **Resource Recommendations:**

Offer recommendations for furniture, decor, and materials that align with the design vision.

Include links to products available for purchase on the e-commerce platform.

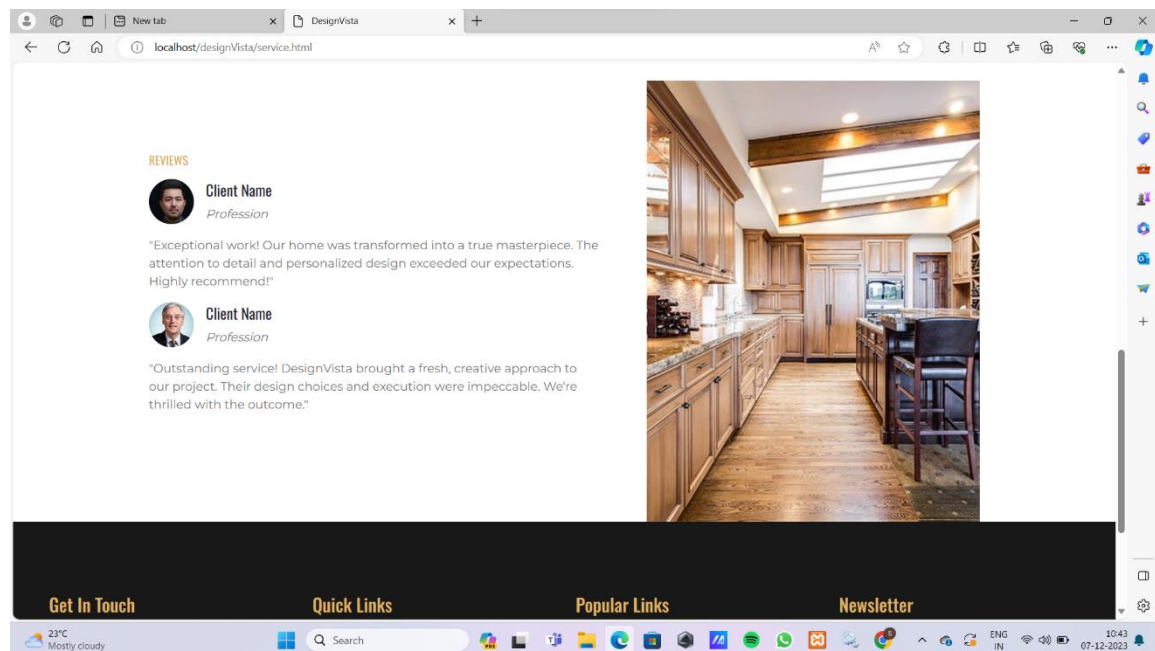


Fig 3.7.1 : Customer reviews

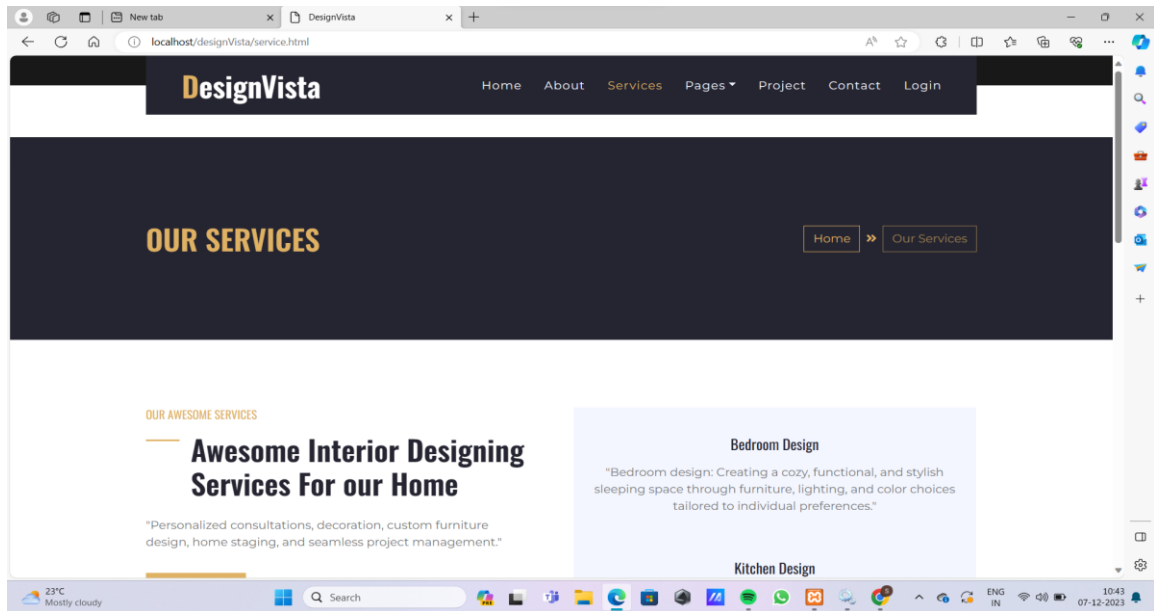


Fig 3.7.2 : Services page

3.8 My Products page

The "My Products" page in the interior design e-commerce website is a personalized area where users can manage and keep track of their purchased items, wishlists, and saved products. Here are the key functionalities for the "My Products" page:

- **Order History:**

Display a comprehensive list of the user's past orders, including order numbers, dates, and order statuses.

Allow users to click on each order to view detailed order summaries.

- **Interactive Visuals:**

Enhance the visual appeal of the "My Products" page with interactive elements, such as images of purchased items, order status icons, and progress bars for ongoing orders.

By incorporating these functionalities, the "My Products" page becomes a central hub for users to manage their interactions with the e-commerce platform, fostering engagement, satisfaction, and loyalty.

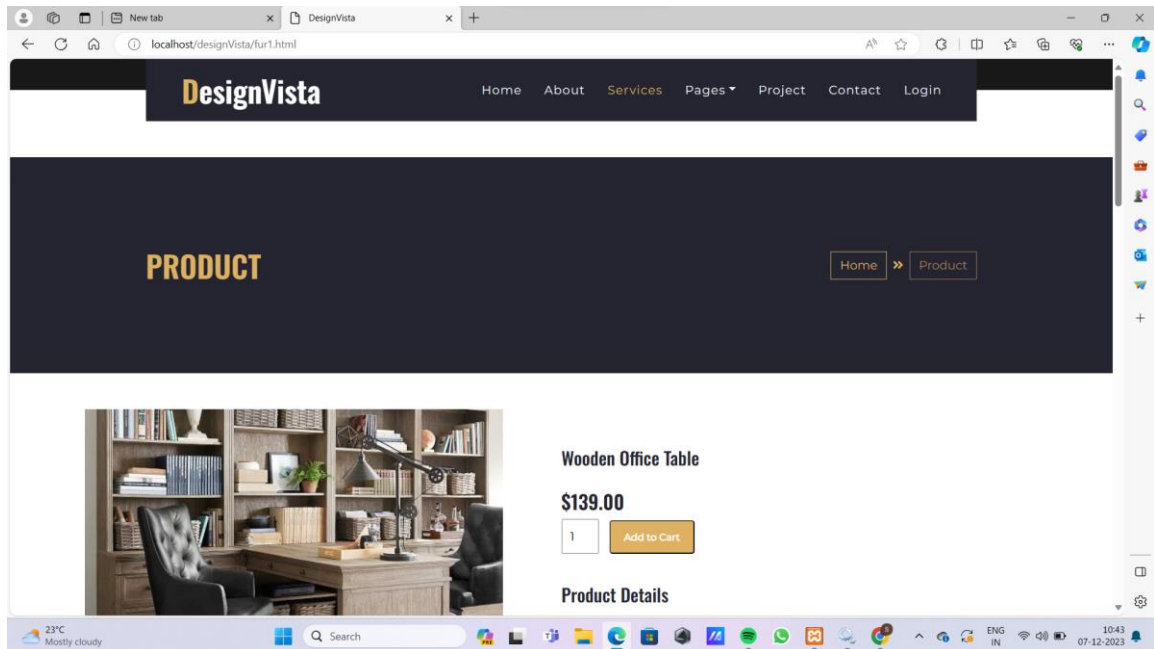


Fig 3.8 : My Products page

3.9 Thank you page

Certainly! Here's a breakdown of the functionality for the "Thank You" after-order page based on the provided content:

- **Order Confirmation Message:**
 - Display a prominent message expressing gratitude and confirming the successful placement of the order.
 - Provide a positive and reassuring tone to enhance the user's post-purchase experience.
- **Order ID Display:**
 - Clearly show the unique Order ID associated with the user's purchase.
 - This information serves as a reference for the user and customer support.
- **Continue Shopping Call-to-Action:**
 - Include a "Continue Shopping" button or link to encourage users to explore more products on the website.
 - Enhance the user's shopping journey by suggesting additional items or highlighting ongoing promotions.

- **Order Summary:**

Optionally, provide a brief order summary on the "Thank You" page, including a list of purchased items and the total cost.

This gives users a quick overview of their order before receiving the detailed email confirmation.

- **Responsive Design:**

Ensure that the "Thank You" page is responsive and accessible across various devices, providing a seamless experience for users on desktops, tablets, and mobile phones.

By implementing these functionalities, the "Thank You" after-order page contributes to a positive and engaging user experience, fostering brand loyalty and satisfaction.

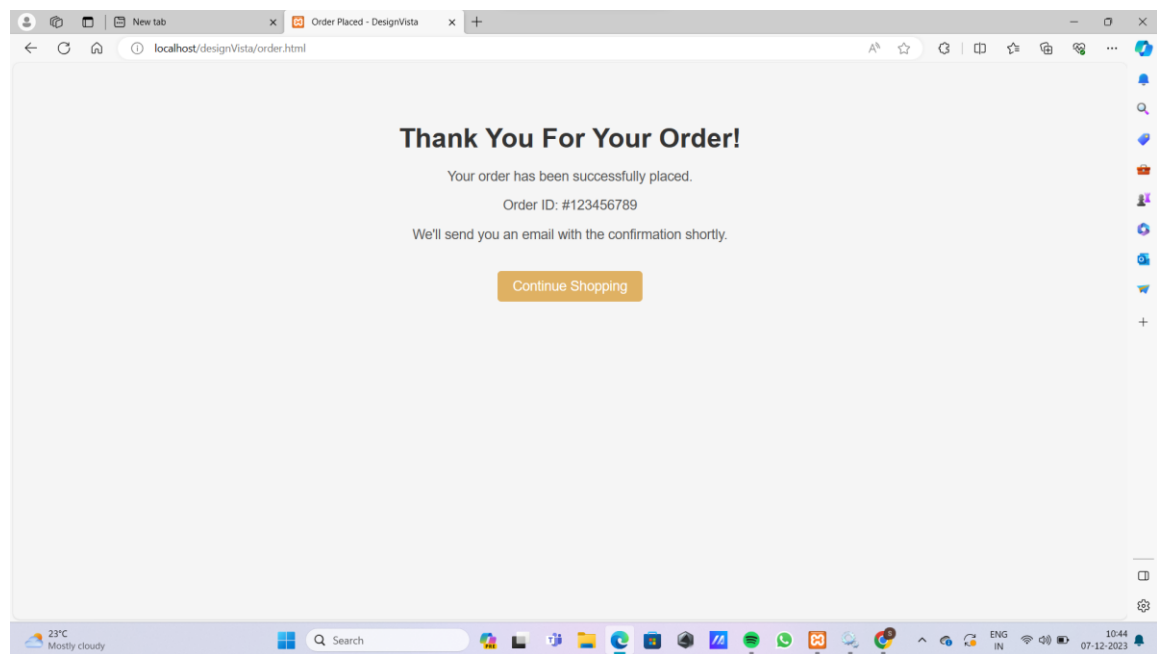


Fig 3.9 : Thank you page

3.10 Transaction section

The transaction page on the Interior Design website is a critical component where users provide necessary details for a secure and smooth online payment process. Here's the functionality of the transaction page:

- **Billing Information Form:**

Present a user-friendly form that collects billing information, including the customer's full name, address, city, state, and pin code.

Clearly label each field and provide any necessary instructions to guide users through the input process.
- **Accepted Cards Information:**

Display logos or icons of the accepted credit cards to inform users about the supported payment methods.

Include a brief note about the website's secure payment process to instill confidence in users.
- **Credit Card Details:**

Create a secure and encrypted input section for credit card details, including the card number, expiration date, and CVV (Card Verification Value).

Implement real-time validation to ensure that users enter valid and accurate credit card information.
- **Billing Address Verification:**

Implement address verification to ensure that the billing address provided by the user matches the information associated with their credit card.

Display an error message if there is a mismatch, guiding the user to correct the information.
- **Confirmation Page:**

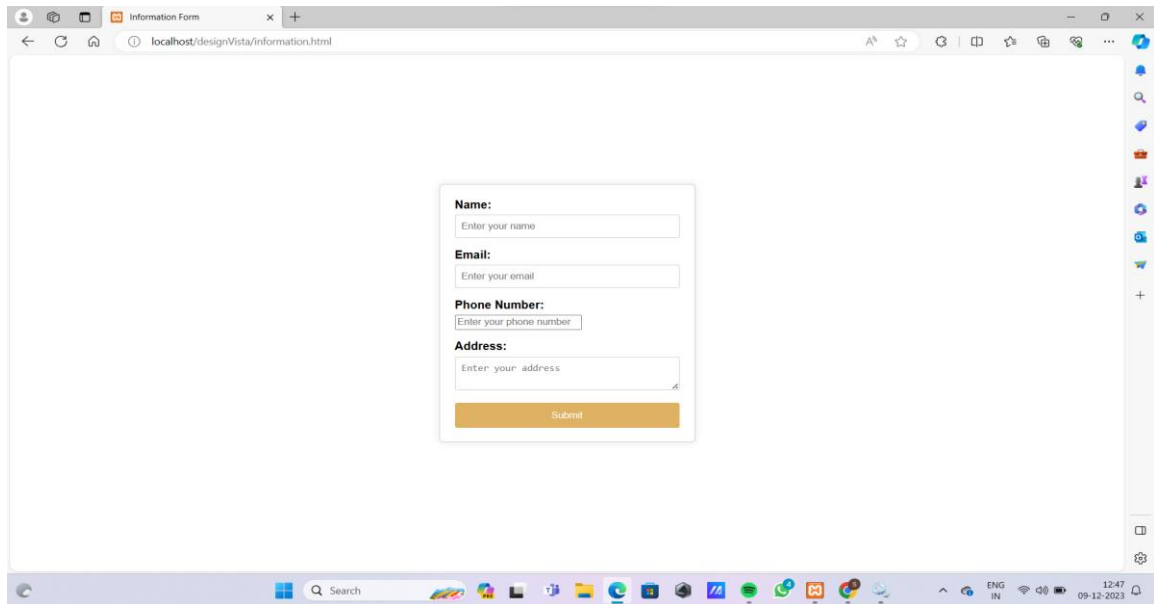
After successful payment, redirect users to a confirmation page that summarizes the transaction details. Include an order confirmation number and any relevant information about the purchased items.
- **Option for Cash on Delivery:**

If the user chooses cash on delivery, present a summary of the order and confirm the cash on delivery option.

Provide instructions for the cash on delivery process and any additional information users may need.
- **Save Billing Information Option:**

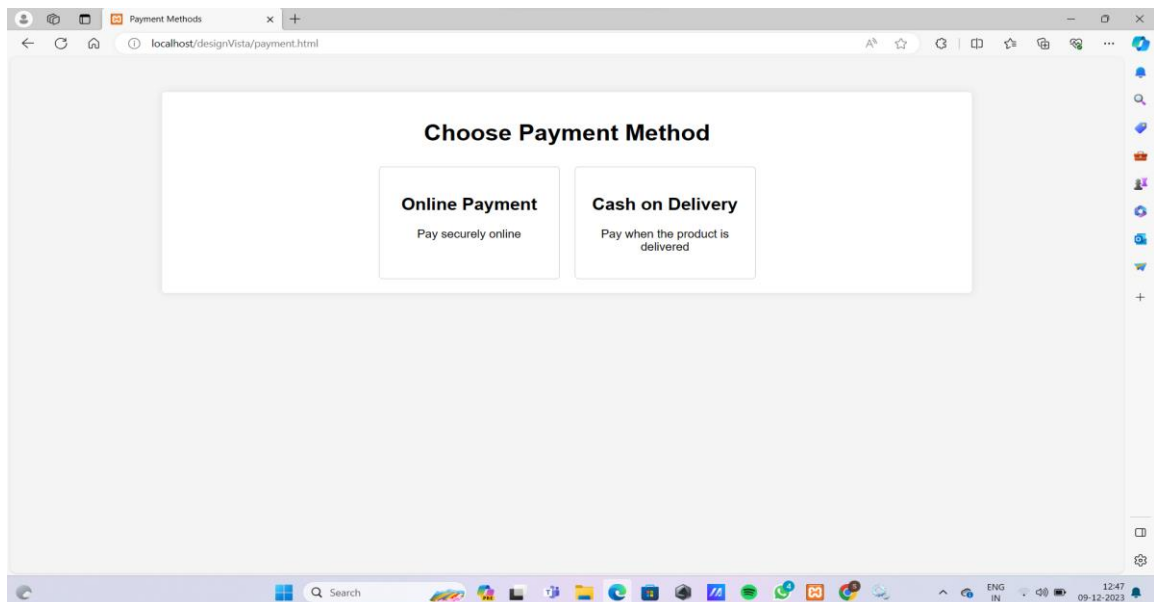
Optionally, provide users with the option to save their billing information securely for future transactions, streamlining the checkout process for returning customers.

By incorporating these functionalities, the transaction page ensures a secure, user-friendly, and transparent process for online payments on the Interior Design website.



The screenshot displays a web browser window with the address bar showing 'localhost/designVista/information.html'. The page contains a central form titled 'Information Form' with the following fields: 'Name:' with a placeholder 'Enter your name', 'Email:' with a placeholder 'Enter your email', 'Phone Number:' with a placeholder 'Enter your phone number', and 'Address:' with a placeholder 'Enter your address'. A yellow 'Submit' button is located at the bottom of the form. The browser's taskbar at the bottom shows various application icons and the system clock indicating 12:47 on 09-12-2023.

Fig 3.10.1 : Billing process



The screenshot shows a web browser window with the address bar displaying 'localhost/designVista/payment.html'. The page features a 'Choose Payment Method' section with two options: 'Online Payment' with the subtext 'Pay securely online' and 'Cash on Delivery' with the subtext 'Pay when the product is delivered'. The browser's taskbar at the bottom shows various application icons and the system clock indicating 12:47 on 09-12-2023.

Fig 3.10.2 : Choose payment option

The screenshot shows a web browser window with the address bar displaying 'localhost/designVista/pay.html'. The page has a gold background and contains a white form with two columns: 'BILLING ADDRESS' and 'PAYMENT'. The 'BILLING ADDRESS' column includes fields for 'Full Name' (john deo), 'Email' (example@example.com), 'Address' (room - street - locality), 'City' (mumbai), 'State' (india), and 'Zip Code' (123 456). The 'PAYMENT' column includes a 'Cards Accepted' section with logos for PayPal, MasterCard, American Express, and VISA, a 'Name On Card' field (mr. john deo), a 'Credit Card Number' field (1111-2222-3333-4444), an 'Exp Month' field (january), an 'Exp Year' field (2022), and a 'CVV' field (1234). A 'Proceed To Checkout' button is located at the bottom of the form. The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons, with the system clock indicating 12:48 on 09-12-2023.

BILLING ADDRESS		PAYMENT	
Full Name :		Cards Accepted :	
<input type="text" value="john deo"/>		PayPal MasterCard American Express VISA	
Email :		Name On Card :	
<input type="text" value="example@example.com"/>		<input type="text" value="mr. john deo"/>	
Address :		Credit Card Number :	
<input type="text" value="room - street - locality"/>		<input type="text" value="1111-2222-3333-4444"/>	
City :		Exp Month :	
<input type="text" value="mumbai"/>		<input type="text" value="january"/>	
State :	Zip Code :	Exp Year :	CVV :
<input type="text" value="india"/>	<input type="text" value="123 456"/>	<input type="text" value="2022"/>	<input type="text" value="1234"/>
<input type="button" value="Proceed To Checkout"/>			

Fig 3.10.3 : Billing details

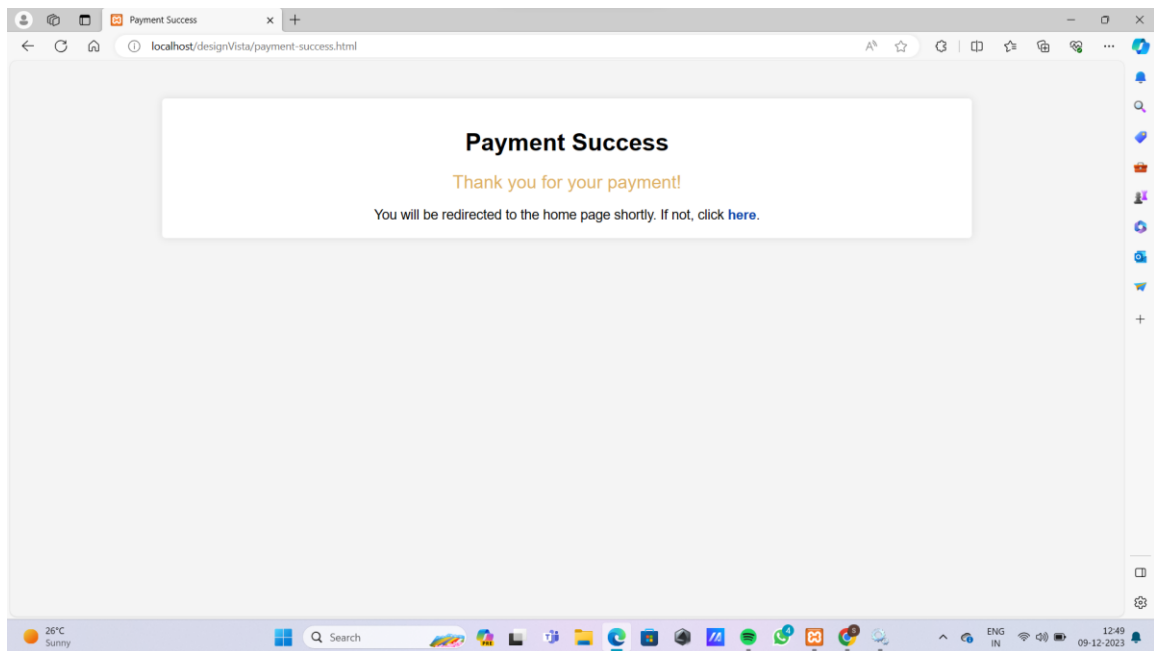


Fig 3.10.4 : Transaction page

TECHNOLOGY USED

Frontend Approach

First, we design the UI of file sharing websites with the help of HTML, CSS, JavaScript.

4.1 HTML

The Hypertext Markup Language, or HTML is the standard Markup Language for documents designed to be displayed in a web browser. With the help of HTML, we write the mark of our file sharing website.

HTML5 can be used to write web applications that still work when you're not connected to the net; to tell websites where you are physically located; to handle high-definition video; and to deliver extraordinary graphics. The core objectives of HTML5 are to offer increased multimedia support and make the coding much easier to read and understand for both people and machines. HTML5 coding is clear, simple, and descriptive. HTML5 also makes placing audio and video content a breeze.

Advantages:

- HTML is used to build websites.
- It is supported by all browsers.
- It can be integrated with other languages like CSS, JavaScript etc.

4.2 CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. With the help of CSS, we will give design to our skeleton of file sharing website like colours, font, size etc. Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of a web page. Using CSS, you can control the colour of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out.

What background images or colours are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects. CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML. Cascading Style Sheet (CSS) is used to set the style in web pages that contain HTML elements. It sets the background colour, font-size, font-family, colour, etc. Property of elements on a web page. There are three types of CSS which are given below:

- **Inline CSS:** Inline CSS contains the CSS property in the body section attached with element is known as inline CSS. This kind of style is specified within an HTML tag using the style attribute.
- **Internal CSS:** This can be used when a single HTML document must be styled uniquely. The CSS rule set should be within the HTML file in the head section i.e. the CSS is embedded within the HTML file.
- **External CSS:** External CSS contains separate CSS file which contains only style property with the help of tag attributes (For example class, id, heading, etc.). CSS property written in a separate file with .CSS extension and should be linked to HTML documents using link tag.

This means that for each element, style can be set only once and that will be applied across web pages. Below is the HTML file that is making use of the created external style sheet Link tag is used to link the external style sheet with the html webpage. Href attribute is used to specify the location of the external style sheet file. Cascading Style Sheet (CSS) is used to set the style in web pages that contain HTML elements. It sets the background colour, font-size, font-family, colour, etc.

Advantages Of CSS:

- **Create Stunning Web Site:** CSS handles the look and feel part of a web page. Using CSS, you can control the colour of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background. images or colours are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

- **Become a web designer:**

If you want to start a career as a professional web designer, HTML and CSS designing is a must skill.

- **Control web:** CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.
- **Learn other languages:** Once you understand the basics of HTML and CSS then other related technologies like JavaScript, , or angular become easier.

4.3 JAVASCRIPT

JavaScript is a light-weight object-oriented programming language which is used by several websites for scripting webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document. It was introduced in the year 1995 for adding programs to the webpages in the Netscape Navigator browser. Since then, it has been adopted by all other graphical web browsers. With JavaScript, users can build modern web applications to interact directly without reloading the page every time. The traditional website uses Js to provide several forms of interactivity and simplicity. Although, JavaScript has no connectivity with Java programming language. The name was suggested and provided in the times when Java was gaining popularity in the market. In addition to web browsers, databases such as CouchDB and MongoDB uses JavaScript as their scripting and query language. With JavaScript, users can build modern web applications to interact directly without reloading the page every time.

Features of JavaScript:

- All popular web browsers support JavaScript as they provide built-in execution environments.
- JavaScript follows the syntax and structure of the C programming language. Thus, it is a structured programming language.
- JavaScript is a weakly typed language, where certain types are implicitly cast (depending on the operation).

- JavaScript is an object-oriented programming language that uses prototypes rather than using classes for inheritance.
- It is a light-weighted and interpreted language.
- It is a case-sensitive language.
- JavaScript is supportable in several operating systems including.
- Windows, macOS, etc.
- It provides good control to the users over the web browsers. Application of JavaScript Java.
- Script is used to create interactive websites.

It is mainly used for:

- Client-side validation,
- Dynamic drop-down menus,
- Displaying date and time,
- Displaying pop-up windows and dialog boxes (like an alert dialog box, confirm dialog box and prompt dialog box).
- Displaying clocks etc.

This section focuses on client-side validation and JavaScript interactivity, which enhance the website's user experience and ensure data integrity.

Client-Side Validation:

Client-side validation is the process of validating user input on the client-side (i.e., within the user's browser) before submitting it to the server. This validation helps prevent invalid or malicious data from being processed and ensures a smoother user experience. Common forms of client-side validation include:

- **Form Field Validation:** JavaScript can be used to validate user input in form fields, such as checking for required fields, verifying correct data formats (e.g., email addresses, phone numbers), and enforcing character limits.
- **Error Messaging:** When client-side validation detects invalid input, it can display error messages near the corresponding form fields to guide users in correcting their mistakes.

- **Real-Time Feedback:** JavaScript can provide real-time feedback to users while they fill out forms, such as checking password strength, confirming matching passwords, or displaying.

4.4 Handlebars (Hbs)

Handlebars is a templating language that allows developers to create dynamic HTML templates with minimal syntax. Here are some theoretical details about Handlebars:

- **Purpose:** Handlebars is designed to simplify the process of generating dynamic HTML by separating the structure of the template from the actual data. It facilitates the creation of reusable templates that can be populated with different data sets.
- **Syntax:** Handlebars uses a syntax with double curly braces (`{{ }}`) to embed expressions and variables within the HTML markup. These placeholders are replaced with actual data when the template is rendered.
- **Data Binding:** Handlebars provides a straightforward way to bind data to templates. Variables and expressions within the template are replaced with corresponding data values, making it easy to update the content dynamically.
- **Expressions:** Handlebars supports expressions, allowing developers to perform basic operations and manipulations within the template. This includes variable substitution, arithmetic operations, and logical expressions.
- **Helpers:** Helpers in Handlebars are custom functions that can be invoked within templates. They enable more complex logic and data manipulation. Handlebars comes with built-in helpers for common tasks, and developers can create their own custom helpers.
- **Conditional Statements:** Handlebars supports conditional statements like `if`, `else`, and `unless`, allowing developers to control the flow of the template based on certain conditions.
- **Iteration (Loops):** Each block helper enables iteration over arrays or objects, making it easy to loop through data and generate repetitive HTML structures.
- **Partial Templates:** Handlebars allows the creation of partial templates, which are smaller, reusable components. These partials can be included within other templates, promoting modular design and code reusability.

- **HTML Escaping:** Handlebars escapes HTML content by default to prevent security vulnerabilities like Cross-Site Scripting (XSS). Developers can use triple curly braces (`{{{ }}})` to output unescaped HTML content when needed.
- **Comments:** Handlebars allows developers to add comments within templates using the `{{! }}` syntax. These comments are ignored during the rendering process and are useful for documenting the template.
- **Client-Side and Server-Side Usage:** Handlebars can be used on both the client side and server side. On the client side, it is often included in web pages and used to render templates dynamically. On the server side, it can be integrated with server-side JavaScript frameworks for generating HTML.
- **Extensibility:** Handlebars is extensible, allowing developers to create custom helpers and leverage existing libraries to extend its functionality.
- **Lightweight and Readable:** Handlebars is known for its simplicity and readability. The syntax is intentionally minimalistic, making it easy for developers to learn and use.

Handlebars provides a pragmatic and effective solution for developers who need to create dynamic HTML templates while maintaining clean and readable code. Its popularity is attributed to its simplicity, versatility, and ease of integration with various web development frameworks.

4.5 PHP

The integration of a PHP backend in the Evolution of Automobile Technology website represents a pivotal step toward enhancing its functionality and responsiveness.

PHP, renowned for its server-side scripting capabilities, empowers the website to process data dynamically, interact seamlessly with databases, and execute server-side operations. This integration is fundamental in providing users with an interactive and personalized exploration of the evolution of automobile technology.

- **Database Design : A Foundation for Backend Functionality**

A robust backend begins with meticulous database design. This phase entails the creation of essential tables, establishment of relationships, and definition of fields to store and retrieve pertinent information about the evolution of automobile

technology. This spans historical data, technological advancements, vehicle specifications, and other relevant details.

- **PHP Setup and Configuration**

The first step in PHP backend integration is setting up and configuring the PHP environment. This involves installing PHP on the web server, configuring the necessary settings, and ensuring compatibility with the chosen database management system.

- **Server-Side Processing**

PHP facilitates server-side processing of user requests and data. It handles form submissions, processes user input, and interacts with the database to retrieve or store information. For example, users may submit queries or requests for specific information about automobile technology advancements, and PHP processes those requests, retrieves relevant data from the database, and presents it to the user.

- **User Authentication and Authorization**

If the website includes features like user accounts, user authentication and authorization become crucial. PHP allows for the implementation of secure login systems, user registration, and access control mechanisms. This ensures that only authorized users can access certain parts of the website or perform specific actions.

- **Data Validation and Sanitization**

Input validation and data sanitization are essential for maintaining the integrity and security of the website. PHP provides functions and techniques to validate and sanitize user input, preventing malicious code injections, SQL injections, and other security vulnerabilities.

- **Database Connectivity:**

To store and retrieve data related to the evolution of automobile technology, a database will be utilized. PHP provides robust database connectivity features.

It can connect to different database management systems such as MySQL, or SQLite. A suitable database system will be chosen to store relevant information for the website.

- **Retrieving and Displaying Data:**

PHP scripts will retrieve data from the database based on user requests or predefined queries. The data will be processed and formatted appropriately for display on the website. This could include information about historical milestones, technological advancements, or notable automobile innovations. The retrieved data will be dynamically rendered on the website to provide a rich user experience.

CONCLUSION

The interior design e-commerce website is a meticulously crafted platform that seamlessly integrates functionality, aesthetics, and user engagement. The curated product catalog, featuring furniture and decorative designs, is presented through an intuitive interface, allowing users to explore, select, and personalize their shopping experience. The inclusion of personalized interior design services elevates the platform beyond a traditional e-commerce site, providing users with expert guidance and consultations to transform their living spaces. With a strong focus on security and privacy, the website ensures user data protection throughout the registration, shopping, and checkout processes. The "Thank You" after-order page extends a warm acknowledgment to users, emphasizing their importance, and the "My Products" page offers a centralized space for users to manage orders, track deliveries, and explore additional purchases. As the website evolves, the commitment to continuous improvement and user-centric design positions it as a dynamic and preferred destination for those seeking not only superior products but an immersive and personalized interior design journey.

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