SKILL⚭LYNC

Front End E-commerce Project

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Guide

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1. INTRODUCTION:

The web development landscape has evolved significantly over the years, and new technologies and frameworks are emerging at a rapid pace. HTML5, CSS3, JavaScript, and JQuery are among the most popular technologies used to build modern websites. HTML5 is the latest version of HyperText Markup Language, which is used to structure the content of web pages. CSS3 is the latest version of the Cascading Style Sheets language, which is used to design web pages and create layouts. JavaScript is a programming language used to add interactivity and functionality to websites, while jQuery is a JavaScript library that simplifies writing JavaScript code.

The combination of HTML5, CSS3, JavaScript, and jQuery provides web developers with a powerful set of tools for creating modern and engaging websites. These technologies provide a range of features and capabilities for creating dynamic layouts, adding animations and effects, and optimizing the website for search engines and various devices.

This web project documentation describes how to use these technologies to create a responsive website that showcases a company's products and services. The site is designed to provide an engaging and seamless user experience, with easy navigation and clear calls to action to encourage visitors to learn more about the company. The document covers the scope, goals, technologies, structure, design, navigation, and functionality of the website and provides a comprehensive guide for web developers looking to create similar websites.

2. PROJECT SCOPE

The scope of this project is to build a responsive website that will showcase the products and services of the company. The website will consist of multiple pages including a Homepage, Menu page, Review page, and Online Order page, Sign-up page, Sign-in page, Admin page, Term and Condition page, Feedback page. The website will be built using HTML5, CSS3, JavaScript, and jQuery technologies.

3. HARDWARE SPECIFICATION

Hardware used:

Processor: Intel i7 (Intel i3 and above can be used)
RAM: 8 GB
Storage: 2TB (250GB minimum required)
Graphics Card: 4 GB
Display: 1400 PX

4. PROJECT GOALS

1. To create a modern and responsive website that will showcase the company's products and services in an engaging way.

2. To provide visitors with easy navigation and a seamless user experience.

3. To optimize the website for search engines, and ensure that it is accessible and responsive on all devices.

4. To make use of the latest web technologies to enhance the functionality and interactivity of the website.

5. TECHNOLOGIES

HTML 5:

HTML, or HyperText Markup Language, is a markup language used for creating web pages and web applications. HTML is used to structure content on a web page and to define its layout, appearance, and functionality

HTML is made up of a series of tags, or elements, which are used to mark up content on a page. These tags can be used to define headings, paragraphs, lists, tables, images, links, and much more. HTML also allows for the creation of forms, which can be used to collect data from users.

The latest version of HTML is HTML5, which includes many new features such as native support for multimedia, improved semantic markup, and new APIs for web applications. HTML5 is designed to be backwards compatible with previous versions of HTML, so older web pages will continue to work with modern browsers.

CSS 3:

CSS, or Cascading Style Sheets, is a style sheet language used for describing the presentation of a document written in HTML or XML. CSS separates the presentation of a web page from its content, allowing for greater control over the visual appearance and layout of a page.

CSS works by defining styles for elements on a web page, such as the font size, color, and spacing of text, the background color or image of a page or element, and the position and layout of elements on a page. CSS can be used to create complex layouts and designs, including responsive designs that adapt to different screen sizes and devices.

JAVASCRIPT:

JavaScript is a high-level programming language used to create interactive and dynamic web pages. JavaScript is often used in conjunction with HTML and CSS to create modern web applications.

JavaScript allows developers to add interactivity and functionality to web pages, such as form validation, animations, and dynamic content updates. JavaScript is also commonly used to create client-side web applications, which run entirely in the browser and do not require a server-side component.

JavaScript is an event-driven language, meaning that it responds to events such as user input or page loading. JavaScript code can be embedded directly in HTML documents or included as separate files that are linked to a web page.

JQUERY:

JQuery is a fast, small, and feature-rich JavaScript library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. JQuery provides an easy-to-use API that works across a multitude of browsers, which allows developers to write less code while accomplishing more.

JQuery allows developers to easily manipulate the Document Object Model (DOM) of web pages using a variety of functions that can select elements, modify their contents or attributes, and manipulate their position and size on the page. JQuery also simplifies event handling by providing a unified interface for attaching event handlers to elements on a web page, which can include responding to user interactions such as clicks or form submissions.

In addition to providing a powerful set of features for manipulating the DOM, jQuery includes support for Ajax interactions, which allows web pages to communicate with a server without requiring a page refresh. This feature allows web applications to update their content in real-time, without the need for the user to perform a manual refresh.

GIT:

Git is a widely used version control system for tracking changes in software development projects. It allows multiple developers to work on the same codebase simultaneously and merge their changes seamlessly. Git provides powerful features for branching, merging,

and rollback, making it a valuable tool for collaboration and project management.

6. NAVIGATION ELEMENT

1.   Header

A header that contains a logo, sign-up, sign-in, and various page anchor tags is a common element in many websites. It serves as a navigational tool that allows users to easily access different areas of the website and perform various actions such as signing up, logging in, or returning to the homepage.

2.   Footer

The footer includes social media logos for easy access to the website's social pages, an admin panel link for website management, terms and conditions for legal information, and a feedback form for user input, providing a comprehensive and user-friendly experience.

3.   Carousal

A carousel is a slideshow component that displays multiple images or content in a rotating cycle, allowing users to view and interact with various elements. The carousel typically includes navigation buttons, such as "prev" and "next," to enable users to manually control the display. Carousels are often used to showcase products, images, or news articles in a dynamic and engaging way.

4. Menu Page(Card)
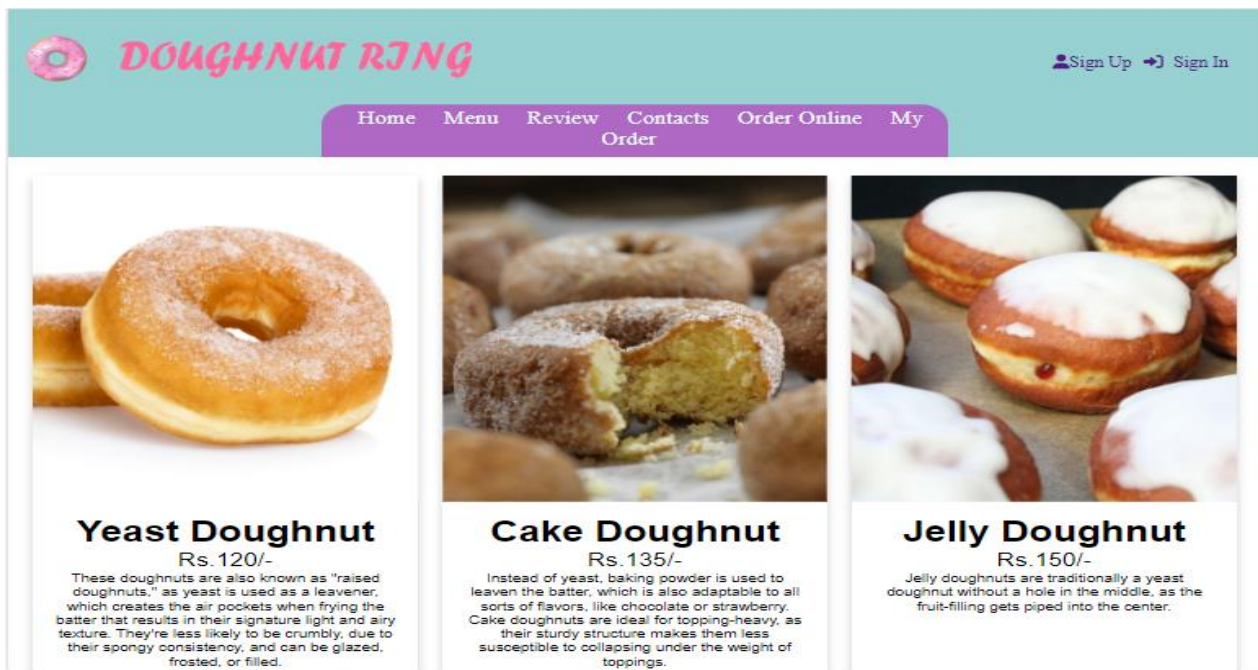
A menu page is designed to display a list of items or options for users to select. The menu may use card elements to showcase each item, providing a visually appealing and organized layout. The page should also be designed to be responsive, meaning it can adjust and adapt to different screen sizes, ensuring a seamless user experience on desktop and mobile devices.

5. Review Page
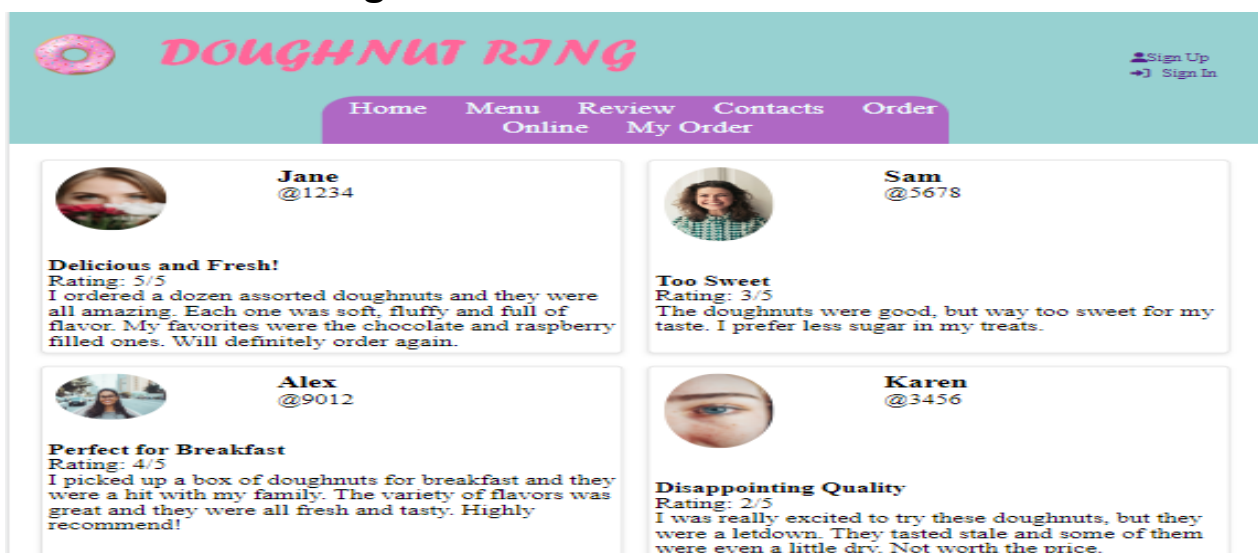
The review page you have created using display flex and div's inside div's is a good design choice for displaying multiple reviews in a visually appealing and organized manner. Utilizing AJAX to fetch data from GitHub adds a dynamic component to the page, allowing users to view ratings, descriptions, and usernames of reviews. Additionally, the use of responsive design techniques can help ensure that the page displays well on all devices. Overall, the combination of design choices and use of AJAX to populate data makes for a compelling and user-friendly review page.

6.   Order Online Page
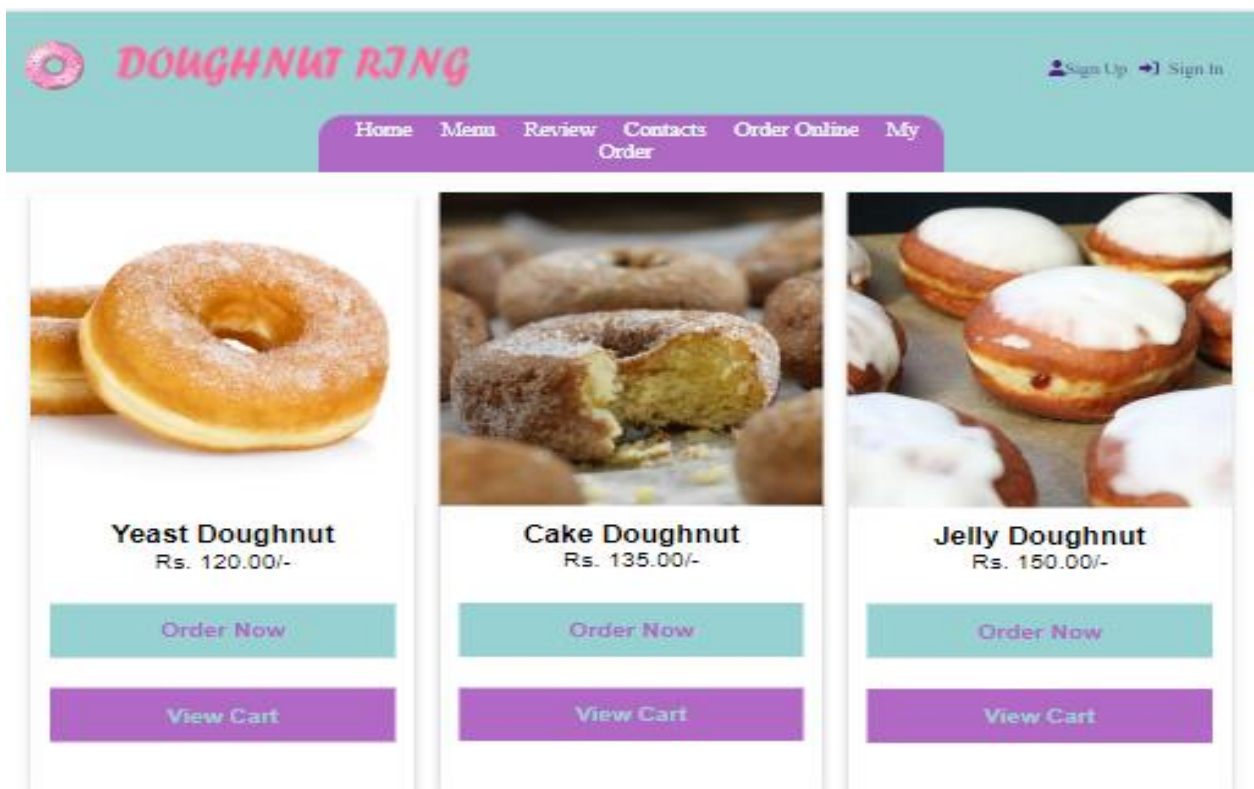
An online order page with card elements is an effective way to display products for purchase. Each card should feature a product image, name, and price to provide the necessary information for users to make a purchase decision. The page should include buttons such as "Add to Cart" and "View Cart" for easy navigation and purchase. Additionally, the design of the page should be responsive to ensure a seamless experience on all devices. Overall, this type of page design can provide an effective platform for e-commerce and online sales.

7.   Add To Cart Page
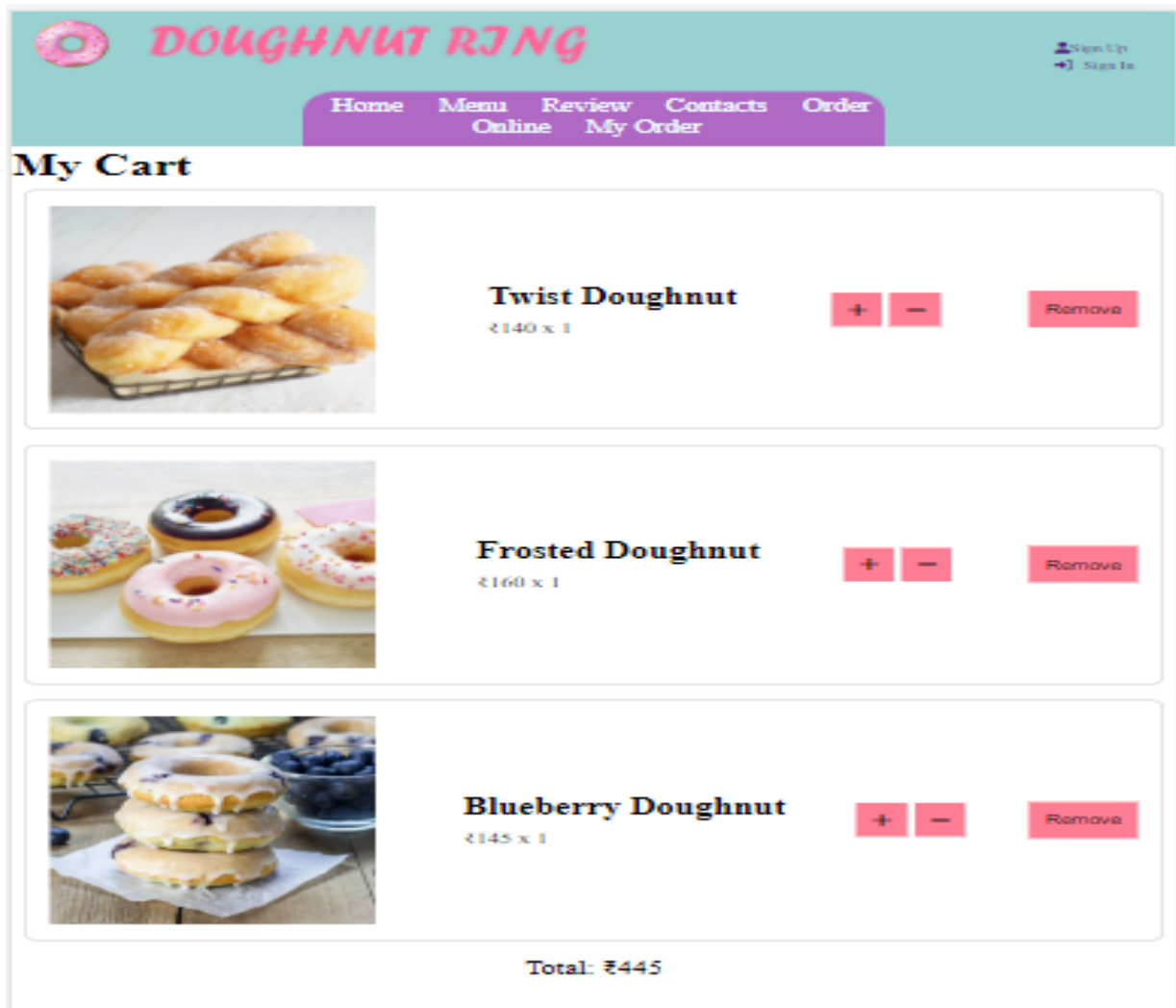
An "Add to Cart" page should show users the product they have added to their cart and allow them to adjust the quantity of each product. The page should feature options for users to increase or decrease the quantity of each product in their cart and remove products entirely if necessary. The page should also display a final total cost at the bottom of the page. By providing these options, the "Add to Cart" page can help users manage their purchases and ensure they are satisfied with their final selections.

8.   Login Options

1. New User

Create Account

First Name

Last Name

Email

New Password
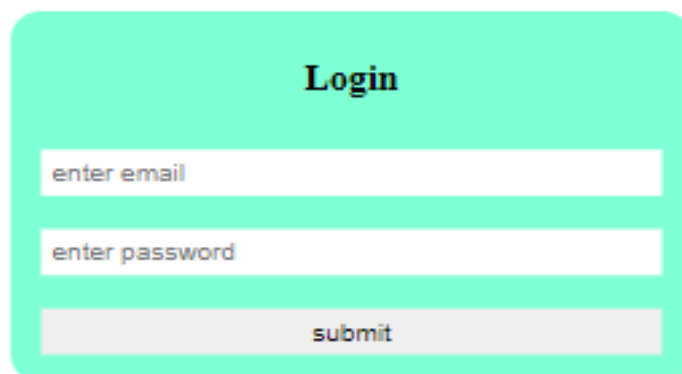
Confirm Password

register

Already Have account Sign-up

New User: If you're a new user, you can create an account with us by filling in your details. We'll ask for your name, email address, and a password. Once you've created an account, you'll be able to log in and start exploring all that our website has to offer.

2. Regular User
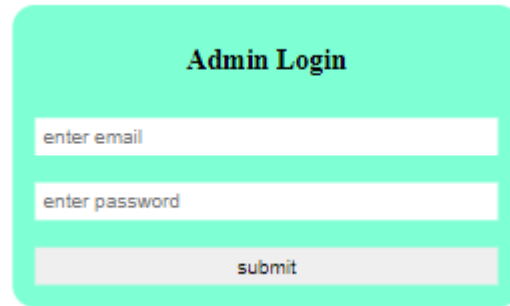
Login

enter email

enter password

submit

Regular User: If you're a regular user, all you need to do is enter your email address and password to log in. Once you've logged in, you'll be able to access your account and any saved information, such as your order history or preferences.
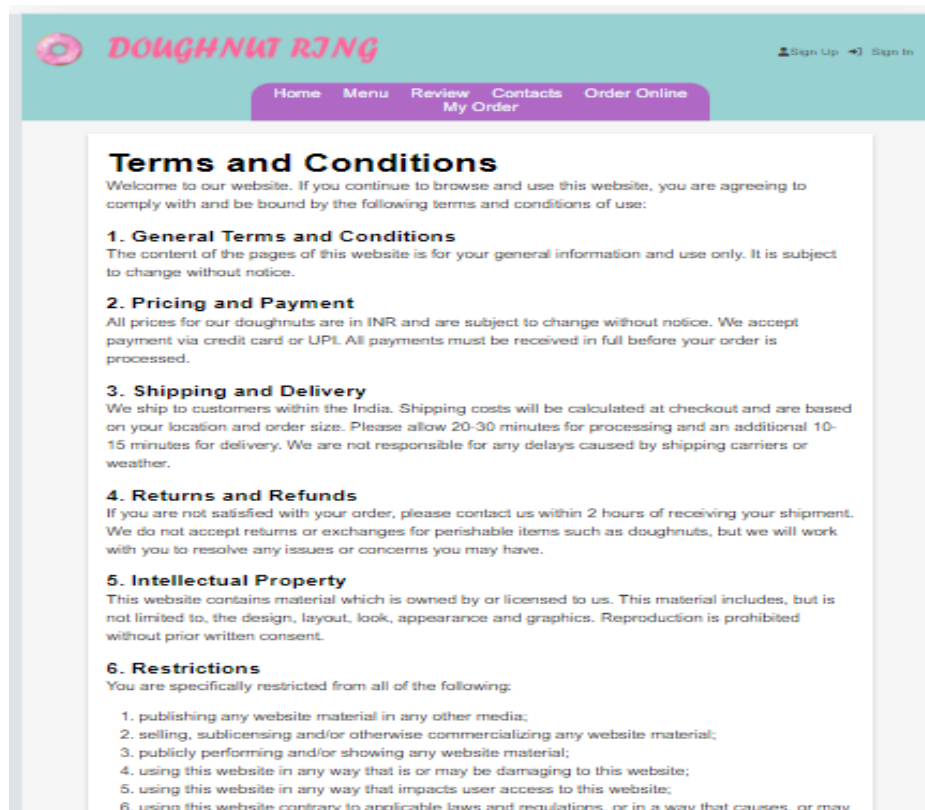
3. Admin

Admin: If you're an admin, you can log in using your email address and password to access the admin dashboard. From there, you'll be able to manage user accounts, update website content, and perform other administrative tasks. As an admin, you have more access and control over the website than regular users.

9. Term And Condition Page

The terms and conditions page is a legal agreement between a website or company and its users, outlining the rules and guidelines that govern the use of their services. The purpose of this page is to protect the company's interests and inform users of their rights and obligations when using the website or service.

10. Feedback Form Page

This is a feedback form that uses HTML to collect the user's first name, last name, email address, comments, and rating. The form includes required fields for the user's name and email address, and an optional field for comments. The rating field is a range input that allows the user to rate their experience on a scale of 1 to 5. This feedback form is an effective tool for businesses to collect user feedback and improve their products or services.

7. FUNCTIONALITY

The website built using HTML5, CSS3, JavaScript, and jQuery will include several functional features that enhance the user experience. These features include:

Reusable Header and Footer: The website will have a consistent header and footer across all pages. This will include a navigation menu, company logo, and contact information in the header. The footer will include links to important pages, such as the Privacy Policy and Terms of Use, as well as social media links.

Carousal and Card: The website will make use of a carousel to showcase the company's products and services. The carousel will be fully responsive, and will allow visitors to view images and descriptions of the products. Additionally, the website will use cards to display information about each product, including price, description, and rating. The cards will be reusable and will be displayed on multiple pages throughout the website.

AJAX Call Add to Cart: The website will include an AJAX call to add products to the cart without reloading the page. This will provide a seamless user experience, allowing visitors to add products to their cart without any interruptions.

View Cart: The website will have a page dedicated to the cart, where visitors can view the products they have added and make changes to their order. This page will include a summary of the order, as well as options to remove products, update quantities, and proceed to checkout.

Responsive Design: The website will be fully responsive, ensuring that it is accessible and functional on all devices, including desktops, tablets, and smartphones. The website will be optimized for different screen sizes, and will adjust the layout and content to provide the best possible user experience.

Overall, the functionality of the website will focus on providing a seamless and engaging user experience. By making use of reusable components such as the header, footer, carousal, and cards, the website will be easy to navigate and consistent across all pages. The use of AJAX calls and the view cart feature will streamline the buying process, allowing visitors to add products to their cart and make changes without any interruptions. Additionally, the responsive design of the website will ensure that it is accessible and functional on all devices, providing a positive user experience for visitors.

8. Conclusion

The use of HTML5, CSS3, JavaScript, and jQuery provides web developers with a powerful set of tools to create modern and engaging websites. By making use of these technologies, the website built in this project documentation will include several functional features that enhance the user experience.

The use of reusable components such as the header, footer, carousal, and cards, will ensure that the website is easy to navigate and consistent across all pages. Additionally, the use of AJAX calls and the view cart feature will streamline the buying process, allowing visitors to add products to their cart and make changes without any interruptions.

The website's responsive design will ensure that it is accessible and functional on all devices, providing a positive user experience for visitors. With easy navigation, clear calls-to-action, and engaging visual content, the website will serve as a window into the company, establishing a strong brand identity and building trust with customers.

In conclusion, the website built using HTML5, CSS3, JavaScript, and jQuery will provide a seamless and engaging user experience, showcasing the company's products and services in a modern and dynamic way.