## Front End Engineering-II

Project Report

Semester-IV (Batch-2022)

FAQ PAGE

(Using Bootstrap)

A red and white sign

Description automatically generated with low confidence

**Supervised By: Submitted By:**

Mr. Raveesh Samkaria Yatin Kalra

2210990983

G-14

**Department of Computer Science and Engineering**

## Chitkara University Institute of Engineering & Technology,

## Chitkara University, Punjab

**ABSTRACT**

The FAQ Page project represents a comprehensive endeavor aimed at creating an efficient and user-friendly platform for accessing frequently asked questions and their corresponding answers. Leveraging the power of Bootstrap, HTML, CSS, and JavaScript, this project seeks to deliver a seamless and visually appealing experience to users across various devices and screen sizes. The utilization of Bootstrap ensures that the page layout is responsive, adapting fluidly to different screen dimensions and orientations, thus guaranteeing an optimal viewing experience regardless of the device used. Through meticulous HTML structuring, the FAQ content is organized systematically, facilitating easy navigation and quick retrieval of information for users. The CSS styling not only enhances the aesthetic appeal of the page but also contributes to its usability by improving readability and visual clarity. Additionally, JavaScript plays a crucial role in enhancing user interaction by implementing dynamic features such as collapsible sections for questions and answers. This functionality allows users to expand or collapse individual sections as needed, streamlining the browsing experience and reducing clutter on the page. By incorporating these technologies and design principles, the FAQ Page project aims to provide users with an intuitive and efficient solution for accessing essential information, ultimately improving their overall experience on the website and fostering a positive impression of the brand or organization behind it. **Introduction**

The FAQ Page project endeavors to create a user-friendly and visually appealing platform for accessing frequently asked questions (FAQs) and their corresponding answers. With a focus on employing Bootstrap, HTML, CSS, and JavaScript, this project aims to develop a responsive and intuitive interface suitable for diverse devices and screen sizes. By leveraging the capabilities of these technologies, the FAQ Page seeks to streamline the user experience, enabling effortless navigation through the list of questions and facilitating quick access to relevant information. Through careful design and implementation, this project aims to enhance usability, accessibility, and overall user satisfaction, ultimately providing a valuable resource for resolving common queries and improving the engagement of website visitors.

**Background:**

In today's digital landscape, websites serve as primary interfaces for businesses, organizations, and individuals to engage with their audience. Frequently Asked Questions (FAQs) pages are integral components of websites, providing users with quick access to essential information and resolving common queries efficiently. However, designing an effective FAQ page requires careful consideration of user experience and accessibility factors. By leveraging technologies such as Bootstrap, HTML, CSS, and JavaScript, developers can create dynamic and user-friendly FAQ pages that enhance the overall browsing experience.

**Objectives:**

The primary objective of the FAQ Page project is to design and develop a responsive and intuitive platform for presenting frequently asked questions and their answers. Specific objectives include:

1. Implementing a responsive layout using Bootstrap to ensure optimal viewing across various devices and screen sizes.

2. Structuring the FAQ content in a systematic and organized manner using HTML to facilitate easy navigation for users.

3. Enhancing the visual appeal and readability of the page through CSS styling, improving user engagement and comprehension.

4. Implementing dynamic features using JavaScript, such as collapsible sections for questions and answers, to enhance user interaction and streamline the browsing experience.

5. Creating a user-friendly interface that enables users to quickly find relevant information and resolve common queries efficiently.

**Significance:**

The FAQ Page project holds significant importance for both website owners and users. For website owners, an effective FAQ page can reduce the volume of customer inquiries, enhance user satisfaction, and improve overall website engagement. By providing users with quick access to essential information, businesses and organizations can streamline their customer support processes and foster a positive impression of their brand. For users, a well-designed FAQ page offers a convenient and efficient means of accessing information, enabling them to find answers to their questions without the need for extensive searching or contacting customer support. Additionally, a user-friendly FAQ page contributes to a positive overall browsing experience, encouraging users to engage further with the website and potentially leading to increased conversions and customer loyalty.

**Problem Definition:**

The FAQ Page project addresses the challenge of creating an effective and user-friendly platform for presenting frequently asked questions (FAQs) and their corresponding answers on a website. The primary problems to be solved include:

1. Accessibility: Many FAQ pages lack proper organization and structure, making it difficult for users to find relevant information quickly. Users may become frustrated if they cannot easily navigate the FAQ section, leading to a negative user experience.

2. Usability: Traditional FAQ layouts may overwhelm users with a long list of questions and answers, causing information overload and making it challenging to locate specific queries. Improving the usability of the FAQ page is essential to ensure a positive user experience and encourage engagement.

3. Responsiveness: With the proliferation of various devices and screen sizes, ensuring that the FAQ page displays properly across all platforms is crucial. A lack of responsiveness can lead to a disjointed user experience, particularly for mobile users, impacting overall satisfaction and engagement.

4. Interactivity: Static FAQ pages may lack interactivity, making it challenging for users to engage with the content effectively. Implementing dynamic features such as collapsible sections can enhance user interaction and streamline the browsing experience, improving overall usability.

Addressing these problems requires careful consideration of design principles, user experience best practices, and the effective utilization of technologies such as Bootstrap, HTML, CSS, and JavaScript. By creating a responsive, well-organized, and interactive FAQ page, the project aims to improve accessibility, usability, and overall user satisfaction, ultimately enhancing the effectiveness of the website as a whole.

**Requirements:**

The development of the FAQ Page project necessitates the fulfillment of several key requirements to ensure its effectiveness and usability. These requirements include:

**1. Responsive Design:** The FAQ page must be designed to be responsive, ensuring that it displays optimally across various devices and screen sizes, including desktops, laptops, tablets, and smartphones.

**2. Structured Content:** The FAQ content must be structured in a logical and organized manner, with clear categorization and labeling of questions and answers to facilitate easy navigation and quick retrieval of information.

**3. Search Functionality:** Implementation of a search functionality allows users to quickly find relevant FAQs by entering keywords or phrases, enhancing usability and user satisfaction.

**4. Collapsible Sections:** Dynamic features such as collapsible sections for questions and answers enable users to expand or collapse content as needed, reducing clutter and improving readability.

**5. Visual Consistency:** Consistent visual design elements, including typography, color scheme, and layout, must be maintained throughout the FAQ page to enhance visual appeal and user experience.

**6. Accessibility:** The FAQ page must adhere to accessibility standards, ensuring that it is usable by individuals with disabilities and compatible with assistive technologies such as screen readers.

**7. Performance Optimization:** Optimization of page loading speed and performance is essential to provide a seamless browsing experience for users, minimizing wait times and enhancing engagement.

**8. Cross-Browser Compatibility:** Compatibility with popular web browsers such as Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge ensures a consistent experience for users regardless of their chosen browser.

**9. Content Management System Integration:** Integration with a content management system (CMS) allows for easy updating and management of FAQ content, enabling administrators to add, edit, or remove questions and answers as needed.

**10. User Feedback Mechanism:** Implementation of a user feedback mechanism, such as rating or commenting systems, enables users to provide feedback on the usefulness and relevance of FAQs, facilitating continuous improvement of the FAQ page.

**Proposed Design and Methodology:**

1. Design Approach:

**- User-Centric Design:** The design approach prioritizes the user experience, ensuring that the FAQ page is intuitive, easy to navigate, and visually appealing.

**- Responsive Layout:** The layout is designed to be responsive, adapting seamlessly to different screen sizes and devices to provide a consistent experience for all users.

**- Clear Categorization:** FAQs are organized into logical categories to facilitate easy navigation and quick access to relevant information.

**- Visual** **Consistency:** Consistent use of typography, color scheme, and design elements across the page maintains visual coherence and enhances readability.

2. Methodology:

**- Requirement Analysis:** The project begins with a thorough analysis of requirements, including functionality, design, and user experience considerations.

**- Design Mockups:** Wireframes and mockups are created to visualize the layout, structure, and user interface elements of the FAQ page.

**- Front-End Development:** The HTML, CSS, and JavaScript code is developed based on the design mockups, incorporating Bootstrap for responsive design and styling.

**- Accordion Implementation:** JavaScript is used to implement accordion functionality for collapsible sections, allowing users to expand or collapse individual FAQ items.

**- Dark Mode Toggle:** JavaScript is utilized to implement a dark mode toggle feature, enabling users to switch between light and dark color schemes for improved readability and visual comfort.

**- Testing and Feedback:** The FAQ page undergoes rigorous testing to ensure functionality, responsiveness, and compatibility across different devices and browsers. User feedback is solicited and incorporated to refine the design and address any usability issues.

**- Deployment:** Once testing is complete and feedback has been addressed, the FAQ page is deployed to the live website, making it accessible to users.

**Design Concept:**

The design concept for the FAQ page revolves around creating a visually engaging and user-centric interface that prioritizes ease of navigation, readability, and accessibility. The key components of the design concept include:

1. **Minimalist Aesthetic**: Embracing a minimalist design approach, the FAQ page features clean layouts, ample white space, and simple typography to reduce visual clutter and enhance readability.
2. **Clear Hierarchy**: The content is organized hierarchically, with distinct sections and categories for different types of FAQs. Clear visual cues, such as headings, icons, and contrasting colors, are used to differentiate between sections and guide users' attention.
3. **Responsive Design**: The layout is designed to be responsive, ensuring optimal viewing and interaction across various devices and screen sizes. Flexible grids and media queries are employed to adapt the page layout dynamically based on the user's device.
4. **Intuitive Navigation**: Navigation elements, such as the menu bar and collapsible accordion sections, are designed to be intuitive and user-friendly. Users can easily navigate between different sections and find relevant FAQs with minimal effort.
5. **Interactive Features**: Interactive elements, such as accordion-style collapsible sections and the dark mode toggle, enhance user engagement and provide a more dynamic browsing experience. These features allow users to interact with the content and personalize their viewing preferences.
6. **Visual Consistency**: Consistent use of colors, typography, and design elements throughout the page maintains visual coherence and reinforces brand identity. Harmonious color palettes and complementary font choices contribute to a cohesive and professional aesthetic.
7. **Accessibility**: Accessibility considerations are integrated into the design to ensure that the FAQ page is usable by individuals with disabilities. This includes implementing keyboard navigation, providing alternative text for images, and ensuring sufficient color contrast for readability.
8. **Branding Elements**: Branding elements, such as logos and brand colors, are incorporated tastefully to reinforce brand identity and create a cohesive user experience. Subtle branding elements help establish trust and familiarity with users.

**User-Interface Design:**

The user-interface (UI) design of the FAQ page focuses on creating a visually appealing, intuitive, and user-friendly layout that enhances readability and encourages engagement. Here's an overview of the UI design elements:

**Header Section**:

* + The header prominently features the Zestify logo and a navigation menu, allowing users to easily navigate to different sections of the website.
  + A collapsible mobile menu ensures seamless navigation on smaller screens.
  + **Hero Section**:
  + The hero section utilizes a visually striking image background with overlaid text, grabbing the user's attention and conveying the page's purpose.
  + Clear and concise headlines highlight the main theme of the FAQ page, inviting users to explore further.

**Accordion-style FAQ Section**:

* + The FAQ section utilizes an accordion-style layout to present questions and answers in a compact and organized manner.
  + Each FAQ item consists of a clickable question that expands to reveal the answer when selected, allowing users to quickly find the information they need.
  + **Categorization and Navigation**:
  + FAQs are grouped into categories, such as "General Info" and "About our products," making it easy for users to locate relevant information.
  + Tabs or dropdown menus may be used to facilitate navigation between different FAQ categories.

**Dark Mode Toggle**:

* + The dark mode toggle button allows users to switch between light and dark color schemes based on their preferences.
  + Toggling between modes adjusts the background color, text color, and other visual elements to ensure optimal readability and visual comfort.

**Footer Section**:

* + The footer contains supplementary links, copyright information, and a sitemap, providing additional navigation options and essential details about the website.
  + Social media icons may be included to encourage users to connect with Zestify on various platforms.

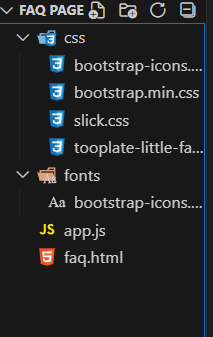
**Responsive Design**:

* + The UI design is responsive and adapts seamlessly to different screen sizes and devices, ensuring a consistent user experience across desktops, tablets, and smartphones.
  + Flexible layouts and media queries are employed to optimize the presentation of content on various devices.

**Visual Consistency and Branding**:

* + Consistent use of typography, colors, and design elements maintains visual coherence and reinforces the Zestify brand identity throughout the page.
  + Branding elements, such as logos and brand colors, are incorporated tastefully to create a cohesive and professional aesthetic.

**FILE STRUCTURE :**



**HTML Code :**

<!doctype html>

<html lang="en">

    <head>

        <meta charset="utf-8">

        <meta name="viewport" content="width=device-width, initial-scale=1">

        <meta name="description" content="">

        <meta name="author" content="">

        <title>Zestify - FAQs Page</title>

        <link rel="preconnect" href="https://fonts.googleapis.com">

        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

        <link href="https://fonts.googleapis.com/css2?family=Inter:wght@100;300;400;700;900&display=swap" rel="stylesheet">

        <link href="css/bootstrap.min.css" rel="stylesheet">

        <link href="css/bootstrap-icons.css" rel="stylesheet">

        <link rel="stylesheet" href="css/slick.css"/>

        <link href="css/tooplate-little-fashion.css" rel="stylesheet">

    </head>

    <body>

        <main>

            <nav class="navbar navbar-expand-lg">

                <div class="container">

                    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                        <span class="navbar-toggler-icon"></span>

                    </button>

                    <a class="navbar-brand" href="">

                        <strong><span>Zes</span>tify</strong>

                    </a>

                    <div class="d-lg-none">

                        <a href="" class="bi-bag custom-icon"></a>

                    </div>

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

                        <ul class="navbar-nav mx-auto">

                            <li class="nav-item">

                                <a class="nav-link" href="">Home</a>

                            </li>

                            <li class="nav-item">

                                <a class="nav-link" href="">About</a>

                            </li>

                             <li class="nav-item">

                                <a href="#" class="nav-link">Service</a>

                                    </li>

                            <li class="nav-item">

                                <a class="nav-link active" href="">FAQs</a>

                            </li>

                            <li class="nav-item">

                                <a class="nav-link" href="">Contact</a>

                            </li>

                        </ul>

                        <div class="d-none d-lg-block">

                            <button type="submit" id="darkModeToggle" class="btn text-white"style="background-color: #000000;" data-bs-toggle="modal" data-bs-target="#cart-modal" onmouseover="this.style.backgroundColor='#ff4400'" onmouseout="this.style.backgroundColor='#000000'">Dark mode</button>

                        </div>

                    </div>

                </div>

            </nav>

            <header class="site-header section-padding d-flex justify-content-center align-items-center">

                <div class="container">

                    <div class="row">

                        <div class="col-lg-8 col-8">

                                <span class="d-block text-primary" style="font-size: 55px; font-weight:bold;">Your favorite questions</span>

                                <span class="d-block text-dark" style="font-size: 40px;font-weight:bold;">and our answers to them</span>

                        </div>

                    </div>

                </div>

                <img src="https://i.pinimg.com/564x/1f/78/64/1f78641df2d88a55e8ec311ed8dfe884.jpg" class="header-image img-fluid" alt="">

            </header>

            <section class="faq section-padding">

                <div class="container">

                    <div class="row">

                        <div class="col-lg-8 col-12">

                            <h2 class="general">General Info.</h2>

                            <div class="accordion" id="accordionGeneral">

                                <div class="accordion-item">

                                    <h2 class="accordion-header" id="headingOne">

                                        <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse" data-bs-target="#accordionGeneralOne" aria-expanded="true" aria-controls="accordionGeneralOne">

                                        What is this Zestify?

                                        </button>

                                    </h2>

                                    <div id="accordionGeneralOne" class="accordion-collapse collapse" aria-labelledby="headingOne" data-bs-parent="#accordionGeneral">

                                        <div class="accordion-body">

                                            <p class="large-paragraph"><strong>Zestify</strong> is a company specializing in software as a service (SaaS) solutions, </p>

                                            <p class="large-paragraph">Offering innovative and customized digital tools to help businesses streamline operations and achieve growth through technology.</p>

                                        </div>

                                    </div>

                                </div>

                                <div class="accordion-item">

                                    <h2 class="accordion-header" id="headingTwo">

                                        <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse" data-bs-target="#accordionGeneralTwo" aria-expanded="false" aria-controls="accordionGeneralTwo">

                                            What is the standard implementation process and timeline for your SaaS solutions?

                                        </button>

                                    </h2>

                                    <div id="accordionGeneralTwo" class="accordion-collapse collapse" aria-labelledby="headingTwo" data-bs-parent="#accordionGeneral">

                                        <div class="accordion-body">

                                            <p class="large-paragraph"><strong>Zestify</strong></a>  tailors the implementation process to each client's unique needs, but it typically takes several weeks to ensure a seamless transition to our SaaS solutions.</p>

                                        </div>

                                    </div>

                                </div>

                                <div class="accordion-item">

                                    <h2 class="accordion-header" id="headingThree">

                                        <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse" data-bs-target="#accordionGeneralThree" aria-expanded="false" aria-controls="accordionGeneralThree">

                                        How do I support your website?

                                        </button>

                                    </h2>

                                    <div id="accordionGeneralThree" class="accordion-collapse collapse" aria-labelledby="headingThree" data-bs-parent="#accordionGeneral">

                                        <div class="accordion-body">

                                            <p class="large-paragraph"><strong>Zestify</strong> offers website support through maintenance, security, updates, and continuous improvements for optimal performance.</p>

                                        </div>

                                    </div>

                                </div>

                            </div>

                            <h2 class="mt-5">About <span>our products</span></h2>

                            <div class="accordion" id="accordionProduct">

                                <div class="accordion-item">

                                    <h2 class="accordion-header" id="headingFour">

                                        <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse" data-bs-target="#accordionProductOne" aria-expanded="true" aria-controls="accordionProductOne">

                                        What is InvoQ?

                                        </button>

                                    </h2>

                                    <div id="accordionProductOne" class="accordion-collapse collapse" aria-labelledby="headingFour" data-bs-parent="#accordionProduct">

                                        <div class="accordion-body">

                                            <p class="large-paragraph"><strong>InvoQ</strong> typically refers to a technology or service related to travel assistance, such as an app or platform.</p>

                                        </div>

                                    </div>

                                </div>

                                <div class="accordion-item">

                                    <h2 class="accordion-header" id="headingFive">

                                        <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse" data-bs-target="#accordionProductTwo" aria-expanded="false" aria-controls="accordionProductTwo">

                                        How do I use the product?

                                        </button>

                                    </h2>

                                    <div id="accordionProductTwo" class="accordion-collapse collapse" aria-labelledby="headingFive" data-bs-parent="#accordionProduct">

                                        <div class="accordion-body">

                                            <p class="large-paragraph">To use <strong>InvoQ</strong>, follow these general steps:<br>

                                                <strong>1.</strong> Step Tracker: Track user's steps using phone sensors                                               .<br>

                                                <strong>2.</strong>Goal Setting: Allow users to set step goals.<br>

                                                <strong>3.</strong> Progress Tracking: Show progress with graphs.<br>

                                                <strong>4.</strong> Social Features: Connect with friends, compete.<br>

                                        </div>

                                    </div>

                                </div>

                            </div>

                        </div>

                    </div>

                </div>

            </section>

        </main>

        <footer class="site-footer">

            <div class="container">

                <div class="row">

                    <div class="col-lg-3 col-10 me-auto mb-4">

                        <h4 class="text-white mb-3"><a href="">Zestify

                        </a></h4>

                        <p class="copyright-text text-muted mt-lg-5 mb-4 mb-lg-0">Copyright © 2023 <strong>Zestify</strong></p>

                        <br>

                        <p class="copyright-text">Designed by <a href="" target="\_blank">Zestify</a></p>

                    </div>

                    <div class="col-lg-5 col-8">

                        <h5 class="text-white mb-3">Sitemap</h5>

                        <ul class="footer-menu d-flex flex-wrap">

                            <li class="footer-menu-item"><a href="" class="footer-menu-link">About</a></li>

                            <li class="footer-menu-item"><a href="" class="footer-menu-link">Products</a></li>

                            <li class="footer-menu-item"><a href="" class="footer-menu-link">FAQs</a></li>

                            <li class="footer-menu-item"><a href="" class="footer-menu-link">Contact</a></li>

                        </ul>

                    </div>

                </div>

            </div>

        </footer>

       <script src="app.js"></script>

    </body>

</html>

**JAVASCRIPT Code:**

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

        var accordionButtons = document.querySelectorAll('.accordion-button');

        accordionButtons.forEach(function(button) {

            button.addEventListener('click', function() {

                var collapse = button.getAttribute('data-bs-target');

                var body = document.querySelector(collapse);

                button.classList.toggle('collapsed'); // Toggle the 'collapsed' class on the button

                if (body.classList.contains('show')) {

                    body.classList.remove('show');

                } else {

                    body.classList.add('show');

                }

            });

        });

    });

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

        var darkModeToggle = document.getElementById('darkModeToggle');

        darkModeToggle.addEventListener('click', function() {

            document.body.classList.toggle('bg-dark'); // Toggle dark background color on body

            document.querySelectorAll('.bg-light,.navbar').forEach(function(el) {

                el.classList.toggle('bg-dark'); // Toggle dark background color on elements with bg-light class

            });

            document.querySelectorAll('.col,.navbar-brand,.mt-5').forEach(function(el) {

                el.classList.toggle('bg-dark');

                el.classList.toggle('text-light'); // Toggle dark background color on elements with bg-secondary class

            });

            document.querySelectorAll('.bg-white').forEach(function(el) {

                el.classList.toggle('bg-dark'); // Toggle dark background color on elements with bg-white class

                el.classList.toggle('text-light'); // Toggle light text color on elements with bg-white class

            });

            document.querySelectorAll('.bg-primary').forEach(function(el) {

                el.classList.toggle('bg-dark'); // Toggle dark background color on elements with bg-primary class

                el.classList.toggle('text-light'); // Toggle light text color on elements with bg-primary class

            });

            // Toggle dark mode on accordion buttons

            document.querySelectorAll('.accordion-button').forEach(function(el) {

                el.classList.toggle('btn-dark'); // Toggle dark background color on accordion buttons

                el.classList.toggle('text-light'); // Toggle light text color on accordion buttons

            });

            // Toggle dark mode on accordion body

            document.querySelectorAll('.accordion-body').forEach(function(el) {

                el.classList.toggle('bg-dark'); // Toggle dark background color on accordion body

                el.classList.toggle('text-light'); // Toggle light text color on accordion body

            });

            document.querySelectorAll('.general').forEach(function(el) {

                el.classList.toggle('bg-dark'); // Toggle dark background color on accordion body

                el.classList.toggle('text-primary'); // Toggle light text color on accordion body

            });

        });

    });

**Results:**

Snippets of the project attached below:

