

Medicine Delivery Website

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ABSTRACT

The frontend design and construction of an interactive medication delivery website is presented in this article with the goal of giving nearby pharmacies and healthcare service providers an easy-to-use, reasonably priced digital platform. The website was created without the need for complicated backend infrastructure by utilizing HTML5, CSS3, and JavaScript, which are essential frontend technologies. Users can examine product details, browse available medications, add goods to a cart, and place orders using a responsive form. Because of its adaptable design, the website is optimized for both desktop and mobile users. To help with direct communication with the pharmacy, it also has a contact box with input validation. This strategy provides a low-tech solution that is perfect for startups or small pharmacies venturing into the digital healthcare delivery market.

Keywords: *Front-end development, HTML5, CSS3, JavaScript, responsive design, online pharmacies, medicine delivery, and healthcare platforms.*

I.INTRODUCTION

Small pharmacies frequently find it difficult to make the switch to online due to significant financial and technical obstacles, despite the growing demand for digital healthcare services and doorstep medication delivery, particularly in the post-pandemic age. Lightweight and user-friendly web solutions that let neighbourhood drug dealers do business online without requiring sophisticated infrastructure are becoming more and more necessary.

This project introduces a frontend-only medicine delivery website built using HTML, CSS, and JavaScript. It provides core features such as product browsing, cart functionality, and contact forms. The goal is to offer a visually appealing, user-friendly interface that works efficiently on both desktop and mobile devices.

In contrast to expansive e-commerce platforms, this website prioritizes simplicity and setup ease. It is ideal for small enterprises with little resources because it can be hosted on free static hosting services like Netlify or GitHub Pages. Without depending on back-end

servers, this work shows how contemporary frontend technologies may handle crucial healthcare e-commerce functions.

II. RELATED WORK

E-learning systems and other contemporary web development applications frequently use well-known frontend frameworks like React, Angular, and Vue.js. Nevertheless, they are inappropriate for novices or tiny institutions since they frequently add complexity and need for backend connectivity.

Complete systems that integrate databases, user authentication, and content management are included in the majority of e-learning platforms currently in use. Even though these systems are strong, they could be overdesigned for tutors or institutions that require a low-maintenance, lightweight solution. Research has indicated that webpages created using simple HTML, CSS, and JavaScript are simple to host on platforms such as Netlify or GitHub Pages, which makes them perfect for basic instructional purposes.

Frontend-only e-learning platforms that distribute course content without server-side logic are the subject of a small number of projects. By avoiding expensive backend implementation, this solution closes that gap by providing a static website with essential educational elements including course displays, navigation, and a contact method.

This research helps close the gap by showing that a fully working e-learning platform that satisfies fundamental educational needs may be created using frontend tools.

III. METHODOLOGY

Usability, accessibility, and responsiveness were the main focuses of the user-Centered design process utilized to create the medication delivery website. The architecture of the website is defined by the following essential modules:

1. Medicine Listing using HTML and CSS

A structured HTML5 layout with CSS3 styling is used to present medications as product cards. A product image, name, price, brief description, and "Add to Cart" button are all included on each card. To guarantee a neat and flexible product layout that functions on all screen widths, CSS Flexbox and Grid are used.

2. Responsive Design

The website can adjust to various device widths thanks to media queries in CSS, guaranteeing a seamless user experience across PCs, tablets, and smartphones. For mobile users, touch-friendly design techniques are used.

3. JavaScript for Cart Management and UI Interaction

Important interactivity, such as adding products to the shopping cart, changing amounts, and figuring out the final cost, is handled by JavaScript. Additionally, it makes scroll-based transitions, dynamic navigation, and menu toggling possible. Local storage or JavaScript arrays are used to manage cart data on the client side.

4. Order Form with Validation

Customer information (Name, Phone, Address, Selected Items) is recorded on an order form. By examining for empty fields and appropriate forms (such as phone number), JavaScript input

validation guarantees accurate submission. It is optional to expand the form to reroute to a QR code for payment confirmation or a UPI-based payment.

5. Product Info and Static Resource Support

Prescription information and usage instructions are available for download in PDF format for each medication. This static content guarantees that clients can access critical information without backend support because the platform is frontend-only.

IV EXPERIMENTAL RESULTS

A thorough series of tests was carried out in real-world settings to assess the pharmaceutical delivery website's usability and functionality. To make sure the platform lives up to the expectations of pharmacy owners and consumers, these testing concentrated on performance, responsiveness, cross-device compatibility, accessibility, and usability.

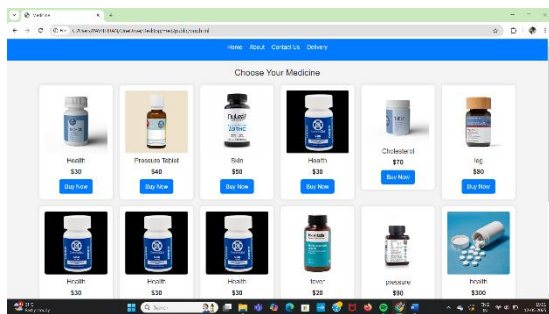


Fig 1.1 medicine_buy_page

Several contemporary browsers, including Google Chrome, Mozilla Firefox, Microsoft Edge, and Apple Safari, were used to thoroughly evaluate the website. The layout worked well in every browser, and the interactive features—like the form validation, navigation menu, and shopping cart—worked flawlessly.

Widescreen PCs and tiny mobile phones were among the screen sizes used to validate responsive design. The medication cards resized correctly and the navigation menu fluidly adjusted for touch interaction on mobile devices thanks to media queries and flexible layouts.

The JavaScript-powered shopping cart system was tested in a number of scenarios, such as adding multiple products, changing quantities, deleting things, and computing totals. All of these operations went smoothly and provided the user with real-time feedback, demonstrating that the client-side logic was handled correctly. The user experience was improved by maintaining the cart state while navigating and promptly updating the total cost with each modification.

A lot of testing was also done on the order form. Validations were examined for various input types, including empty address entries, invalid phone numbers, and missing fields. The form sent users confirmation feedback after it was successfully submitted, letting them know that their information had been noted. For practical application in medicine distribution, these validations aid in preventing orders that are either inaccurate or incomplete.

V CONCLUSION & FUTURE STUDY

This project shows how a frontend-only medication distribution platform might be a good digital option for startups or neighbourhood pharmacies. The website, which was created using HTML, CSS, and JavaScript, provides the necessary e-commerce functions—product display, cart management.

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