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Chapter 1: Abstract

Shoppers Hub is an e-commerce platform offering a diverse range of clothing for men, women, and kids.The website features a user-friendly interface for easy navigation, size selection, and adding items to the cart.A robust rating system allows customers to make informed decisions based on product reviews.Furthermore, comprehensive cart management system simplifies the ordering process, allowing users to review their selections, make adjustments, and proceed to checkout smoothly.To ensure a convenient and secure shopping experience, Shoppers Hub supports multiple payment options, accommodating various preferences and needs. Additionally, it offers a login and registration system.This platform delivers a online shopping experience without the backend, focusing on convenience, quality, and style for fashion enthusiasts.

Chapter 2:   Introduction

2.1   Overview

The overview of Shoppers Hub as an e-commerce platform encompasses its diverse range of clothing for men, women, and kids, along with its user-friendly interface facilitating easy navigation, size selection, and cart management. A key feature is its robust rating system empowering customers to make informed purchase decisions based on product reviews.

The platform's comprehensive cart management system streamlines the ordering process, allowing users to review and adjust selections seamlessly before checkout. Multiple payment options are provided to ensure convenience and security, catering to various preferences.

Additionally, Shoppers Hub offers a secure login and registration system for personalized accounts. Notably, the platform operates without a backend, focusing on delivering a online shopping experience with a strong emphasis on convenience, quality, and style for fashion enthusiasts of all ages.

2.2   Objectives

• **Creating User-Friendly Interfaces:** Design intuitive interfaces for product pages, category pages, and homepage components.

• **Implementing Navigation and Routes:** Set up navigation bars and routes for easy page navigation.

• **Designing and Implementing Cart Functionality:** Create a cart system with features for adding, removing, and managing items.

• **Styling and Layout:** Utilize CSS properties for enhanced visual appeal and usability.

• **Enhancing User Interaction:** Enable functions such as add-to-cart, remove-from-cart, and navigation between pages for smooth user interaction.

• **User Authentication:** Implements login and register pages and frontend user authentication for secure access.

• **Managing Product Display:** Implements systems for displaying product images, names, prices, and related products.

Chapter 3: Description

3.1 Design and Development approach

(i) Design phase: The design phase involved conceptualizing the layout and user interface elements for the website. This included wireframing and prototyping key components to ensure a user-friendly and visually appealing design.

(ii) Development phase: The development phase focused on implementing the designed components using React.js for frontend development of the e-commerce website.

3.2 Key Components

(i) Navbar: The navbar serves as the primary navigation menu for the website. It allows users to easily access different sections such as the shop, men's, women's, and kids' categories. The navbar includes a login button and a cart icon with a count of items in the cart.

(ii) Hero Section(Shop): The Hero section is designed to immediately capture visitors' attention and highlight the latest fashion arrivals. It utilizes attractive imagery and bold typography to engage visitors and encourage exploration of the website's offerings.

(iii) Newsletter section: The Newsletter section aims to encourage visitors to subscribe to the website's email list to receive exclusive offers and updates. It includes a simple form with an input field for entering an email address and a prominent "Subscribe" button.

(iv) Footer Section: The Footer provides essential information, navigation links, and social media connectivity. It typically includes the company's logo and name, navigation links to various sections of the website, and icons for popular social media platforms.

(v) Men, Women, Kids Section: This platform features a diverse range of clothing items for Men's, Women's, and Kids' categories. Each section flawlessly displays products with accompanying images, names, and pricing details, including discounted rates.

3.3 Product Display Component

The Product Display component is a critical element of our e-commerce website, providing users with detailed information about products and enabling them to make informed purchasing decisions.

Product Details:
The Product Display component presents various details about the product-
(i) Product Name: Clearly identifies the product for users.
(ii) Prices: Displays both the original and discounted prices, providing transparency about any discounts or offers.
(iii) Description: Offers a brief overview or description of the product, helping users understand its features and benefits.
(iv) Size Options: Users can select the desired size from available options (S, M, L, XL, XXL). The selected size is highlighted to indicate the user's choice.

3.4   User Interaction

(i) Add to Cart: The "ADD TO CART" button adds the product to the cart, triggering the handleAddToCart function. If no size is selected, an alert prompts the user to choose a size.

(ii) Buy Now: The "BUY NOW" button directs users to the checkout page if a size is selected; otherwise, it shows an alert, ensuring that user has to select a size.

3.5   Review Section

The review section enables customers to share their experiences and opinions.

"Write a Review" section allows users to select a rating (1-5 stars) and comment.
"Submit Review" button posts the review.
"Clear Reviews" button clears all reviews.

These components enhance user engagement and provide valuable feedback for informed decision-making.

3.6   Cart Section

(i) Viewing Cart Items: The cart page shows a list of all the items a customer has added to their shopping cart. This typically includes an image of the product, the product title along with the chosen size, the price per unit, the quantity the customer has chosen, and the total price for that item.

(ii) Modifying Quantities: The cart page allows customers to modify the quantity of each item they want to purchase. This involves a simple '+' and '-' button present next to the quantity to increase and decrease quantities of a given product in the cart respectively.

(iii) Removing Items: The cart page also allows customers to remove items from their cart, in case they change their mind about a purchase. This is done with a 'X' button next to each item.

(iv) Cart Totals Table: This table summarizes the costs for an e-commerce purchase:
• **SubTotal:** Shows the total cost of items in the cart.
• **Shipping Fee:** Displays the cost of shipping, with "Free" indicating no charge.
• **Total:** The final amount to pay, including subtotal, shipping fees.

3.7   Login and Registration Section

(i) Login Section: The login form consists of input fields for the user's username and password.

(ii) Registration section: The registration form includes input fields for the user's name, email, password,confirm password,address and phone number.

3.8   Payment Section

(i) The frontend payment section showcases multiple payment options for users. Under the **"RECOMMENDED"**section, it displays the **Cash on Delivery/Pay on Delivery option**, represented by a money bill icon.

(ii) "PAYMENT METHODS" section, it provides the option to use Other UPI Apps like PhonePe, Paytm, and Google Pay. These apps are displayed with their respective icons, allowing users to choose their preferred UPI app for making payments.

(iii) In the **"MORE WAYS TO PAY"** section, users can opt for two additional payment methods. The first option is to pay using a **Credit or Debit card**, represented by a credit card icon.The second option is **Net Banking**, represented by a bank icon. When the Net Banking option is selected, a dropdown menu appears, allowing users to choose from various bank options like Airtel Payments Bank, HDFC Bank, State Bank of India, Bank of Baroda,IndusInd Bank etc.

3.9   Enhancements

(i) Toast Notifications: Toast notifications provide real-time feedback to users, confirming successful additions to the cart and enhancing the user experience.

(ii) Review Section Integration: The Product Display component seamlessly integrates with the review section, allowing users to share their experiences and provide feedback on the product.

Chapter 4: Methodology

4.1   Specification Gathering

• Gathering the requirements for the e-commerce website, including navbar with Shop, Men, Women, and Kids sections, cart icon, login button, hero section, newsletter section, and footer section.

• Identifing the need for displaying apparel details upon clicking, including product description.

• Specifying the requirement for a review section allowing users to provide feedback on products.

• Defining functionality for adding products to the cart, updating cart totals, and proceeding to payment.

4.2   Design Phase

• Creating designs and mockups to visualize the layout and user interface using tools like Figma and Excalidraw.

• Designing the work flow to ensure easy access to all sections.

• Structuring of the hero section, newsletter section for improving the User interface of the home page.

• Creating a footer section to display essential information and social media links and enhance the appearance of the website.

4.3   Frontend Development

• Developing the navbar component with links to different sections, a login button and a cart icon.

• Creating separate sections for Men, Women, and Kids, displaying respective apparels.

• Developing the login/register and logout logic:
- Creating a login page that opens upon clicking the login button.
- Implementing functionality to verify user credentials and display a success message upon successful login.
- Creating a registration form that opens upon clicking "Register" if the user is new.
- Implementing user registration logic, validating user inputs and displaying a success message upon successful registration.
- Developing functionality to toggle between login and registration forms.
- Implementing a profile icon to appear upon successful login or registration, indicating the user is logged in or registered.
- Creating an overlay for the profile icon click, asking if the user wants to logout.

- Implementing logout functionality, hiding the profile icon and displaying the login button upon logout.

• Implementing a review section allowing users to provide feedback on products.

• Creating buttons for adding products to the cart and 'buy now' buttons.

• Developing the cart functionality to update totals and manage quantities.

• Implementing the frontend payment page with various payment methods like NetBanking, UPI and Credit Card/DebitCard mainly focussing on frontend functionality.

4.4   Integration

• Integrating frontend components to ensure seamless communication and functionality.

• Ensuring proper navigation between different sections and pages.

• Integrating third-party libraries like toastify,dompurify,react-icons/fa for additional features like icons,styling,implementing review section(dompurify) and displaying appropriate messages when a product is added to cart(toastify).

Version-Control:
Used Git for continous code monitoring and GitHub for collective code collaboration.

Chapter 5:   Results
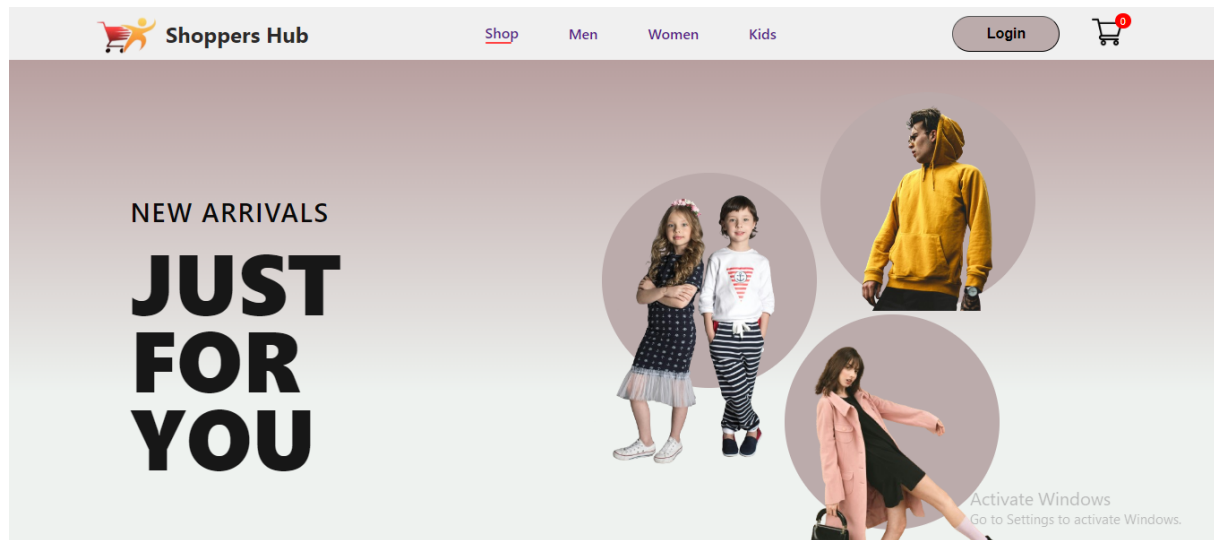
Chapter 6: Conclusion

Chapter 7:   References

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