Day-5 Project Documentation for E-commerce Marketplace Website

Comforty

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1. Introduction

In this project, I have built an

E-**commerce Marketplace** using **Next.js**,
F-**React**,
G-and **Sanity** as a CMS.

The website allows users to view products, select them, add them to the cart, and eventually checkout using a simple payment form.

Technologies Used:

- **Frontend:** Next.js, React, HTML, CSS
- **Backend:** Sanity (for managing product data)
- **Deployment:** Vercel
- **Version Control:** GitHub

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2. Features of the Website:

Product List Page:

- This page displays all the products available in the marketplace.
- The user can view product names, descriptions, and prices.
- **Categories dropdown** allows users to filter products based on selected category.

Product Detail Page:

- When the user clicks on a product, they are redirected to a detailed page.
- The product page shows a detailed description, images, price, and allows users to add products to the shopping cart.
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Shopping Cart:

- Users can add products to their shopping cart.
- Users can view the list of selected products in the cart, with details such as quantity and price.
- The cart functionality uses **React state management** to update and maintain the cart data.

Checkout Page:

- A simple form where users can enter their **shipping address** and **payment information**.
- Upon completing the payment, the user receives an order confirmation message (Payment integration can be added in the future).
- The checkout form has fields for name, address, city, postal code, country, and payment details (mock form).

3. Testing:

The following functionality was tested manually:

- The **product list** loads correctly with products based on selected category.
- Users are able to **add to cart** and **view cart** properly.
- **Checkout flow**: shipping and payment forms work (though the payment is mock for now).
- Responsive testing: The layout adjusts as expected for different screen sizes.

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4. Challenges Faced:

- **Integrating Sanity CMS** with Next.js to dynamically fetch product data was a challenge, but with careful configuration, the connection was successful.

- Creating the **Checkout page** functionality was tricky as actual payment integration is complex. Therefore, the payment section is mocked for now.
- Testing the entire flow manually without advanced testing tools.

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5. Future Enhancements:

- **Payment Gateway Integration:** Implementing a real payment system like Stripe for actual transactions.
- **User Authentication:** Adding a login and registration system for users to manage their orders.
- **Admin Dashboard:** Providing admin functionality to add/edit products, view orders, etc.

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6. Conclusion:

This project allowed me to apply various concepts of **Next.js** and **React** to create a dynamic, responsive marketplace website. It helped me improve my understanding of modern web development practices and I look forward to enhancing this project in the future with additional features.

7. GitHub Repository and Deployed Site Links:

- GitHubRepository: https://github.com/Shabnamwahid/heckathon-03-e-commerce.git

- Deployed Project: https://heckathon-03-e-commerce.vercel.app/

Thank you