

**Present by : MAHNOOR TAHIR**

## **DAY-04 : Building Dynamic Frontend Components**

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### OVERVIEW

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Today's task focused on enhancing the functionality of the Comforty marketplace by building and integrating dynamic frontend components. A fully functional product listing page and detailed individual product pages were developed, along with advanced category filters to improve navigation. Additional features such as related products, reviews and ratings, add-to-cart functionality, and wishlist management were successfully implemented to enrich the user experience. On the backend, inventory management was integrated to track stock levels efficiently, and authentication was set up using Clerk to ensure secure user registration and login. These updates mark significant progress toward delivering a seamless and dynamic shopping experience.

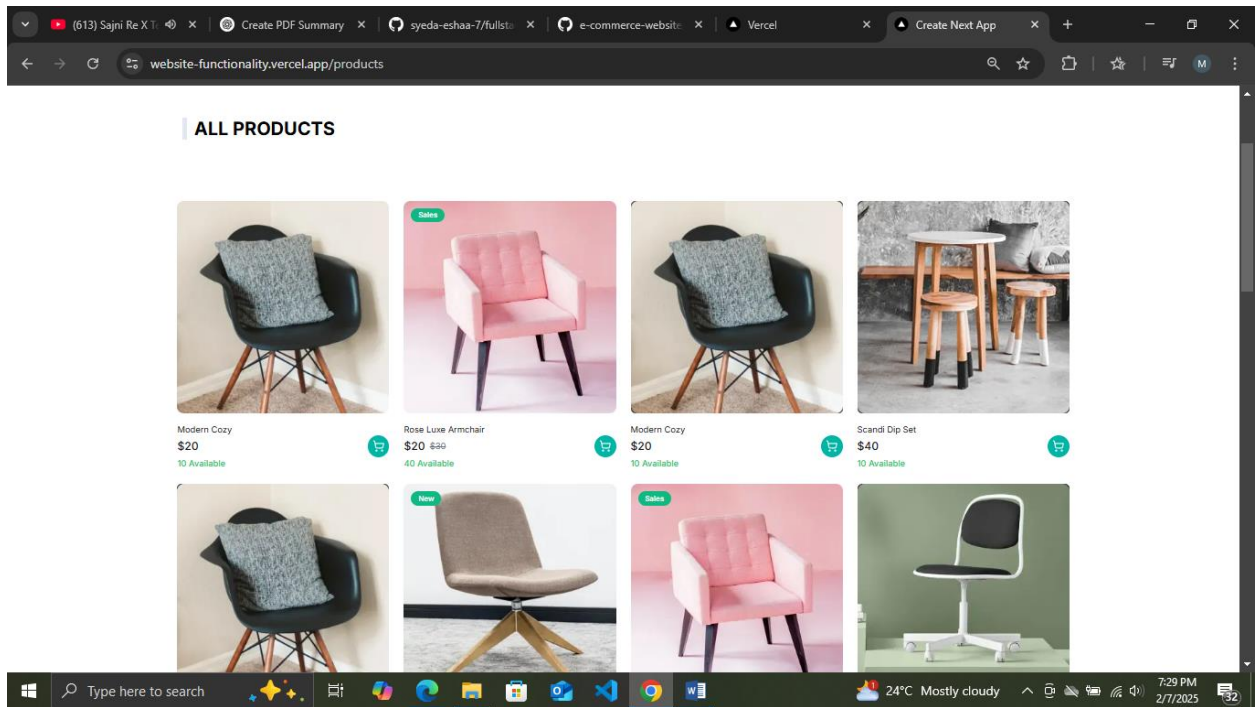
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### Key Functional Achievements

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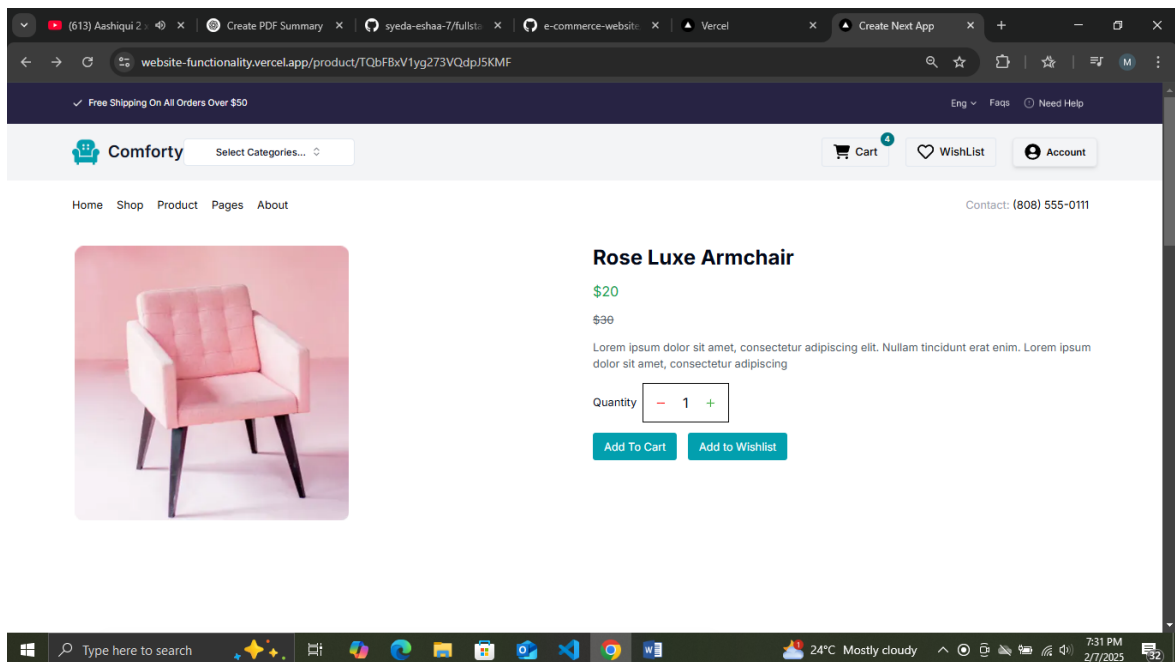
#### **1. Dynamic Product Listing and Pages**

The product listing page displays all available items with dynamic filtering options, allowing users to browse seamlessly. Each product has a dedicated detail page showcasing images, descriptions, pricing, and availability, ensuring an engaging shopping experience.



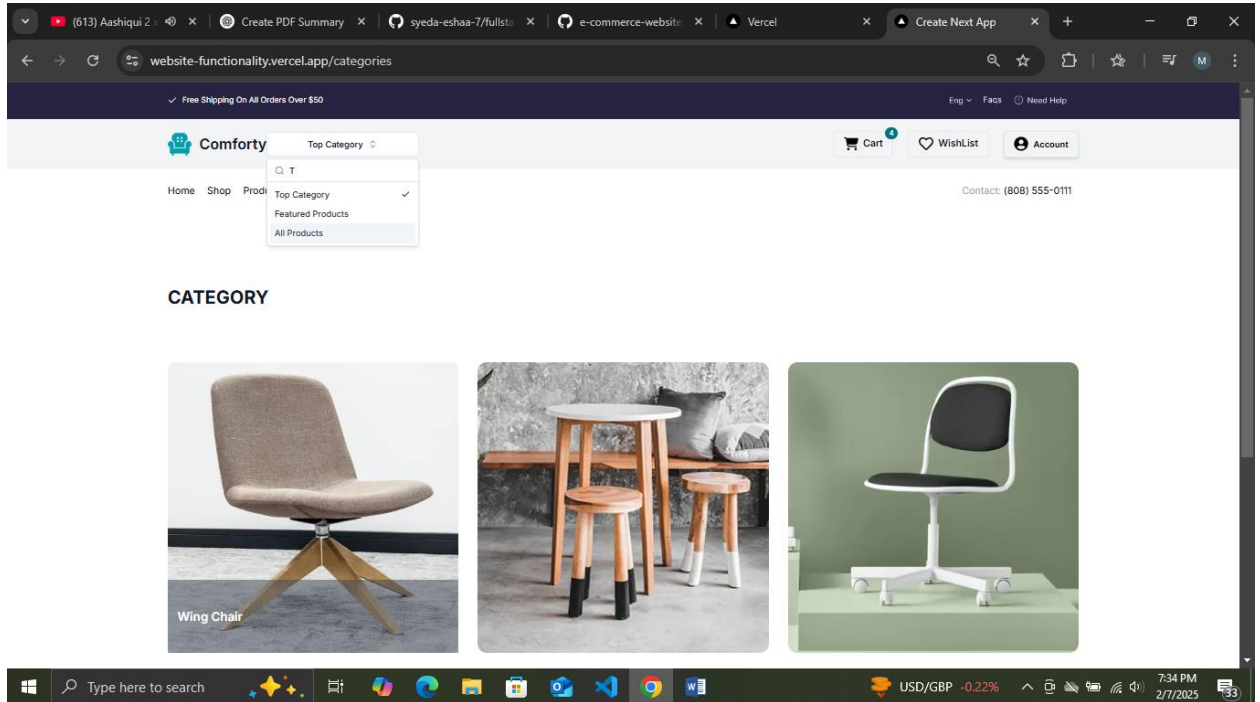
## 2. Detailed Product Pages

Implemented using dynamic routing (`[id].ts`), each product has a dedicated page with high-quality images, descriptions, pricing, and stock availability.



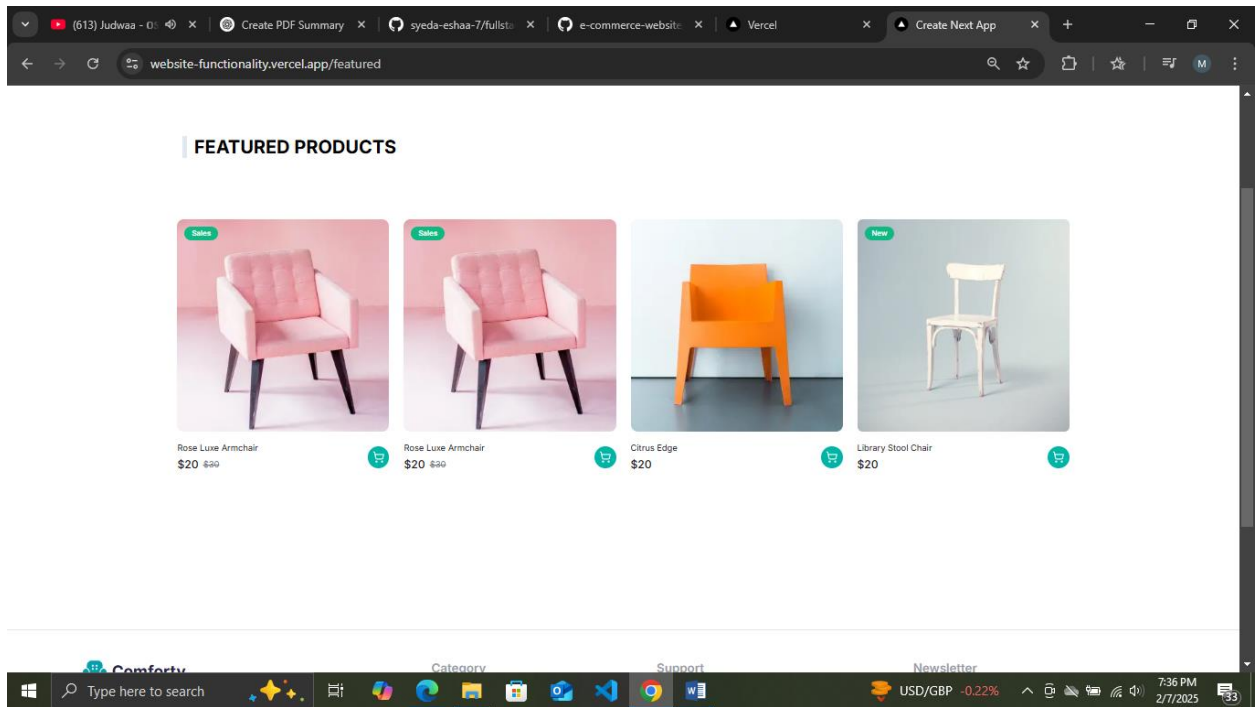
### 3. Advanced Category Filters:

Implemented dynamic filters to help users refine their search based on categories, price range, ratings, and availability, ensuring a seamless browsing experience.



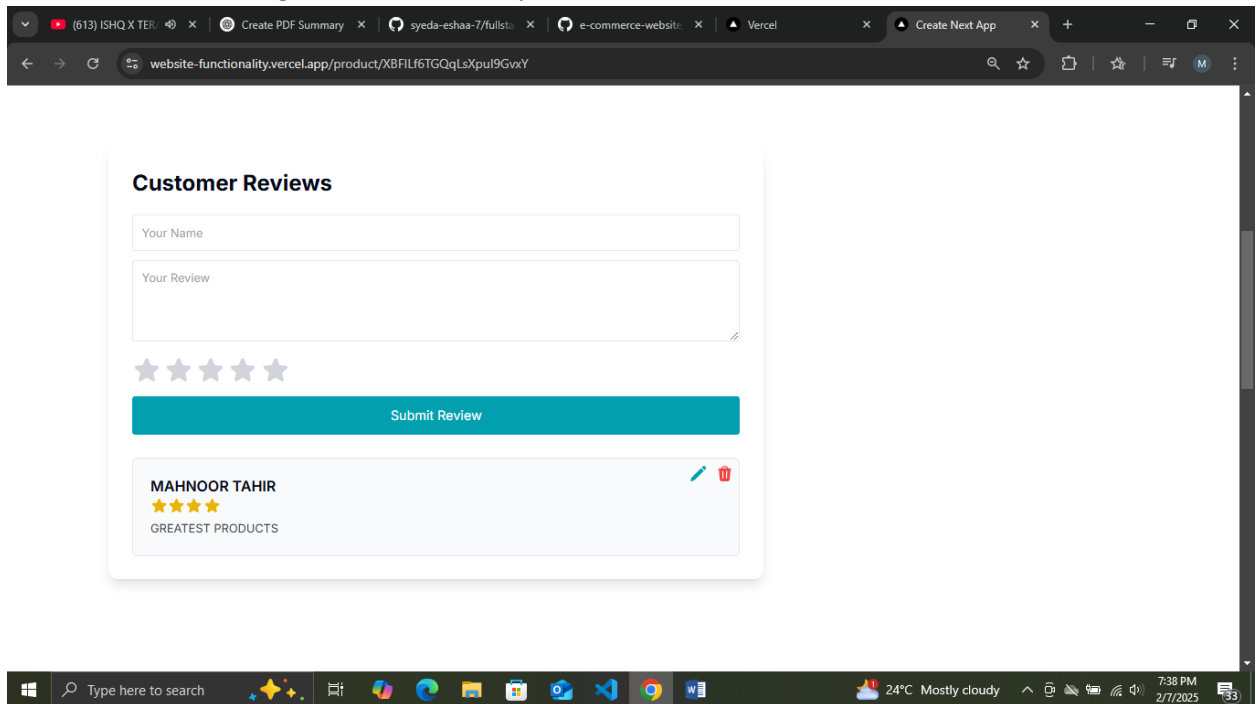
### 4. Featured Products:

Showcases top-rated and best-selling items, highlighting trending products to enhance user engagement and boost sales.



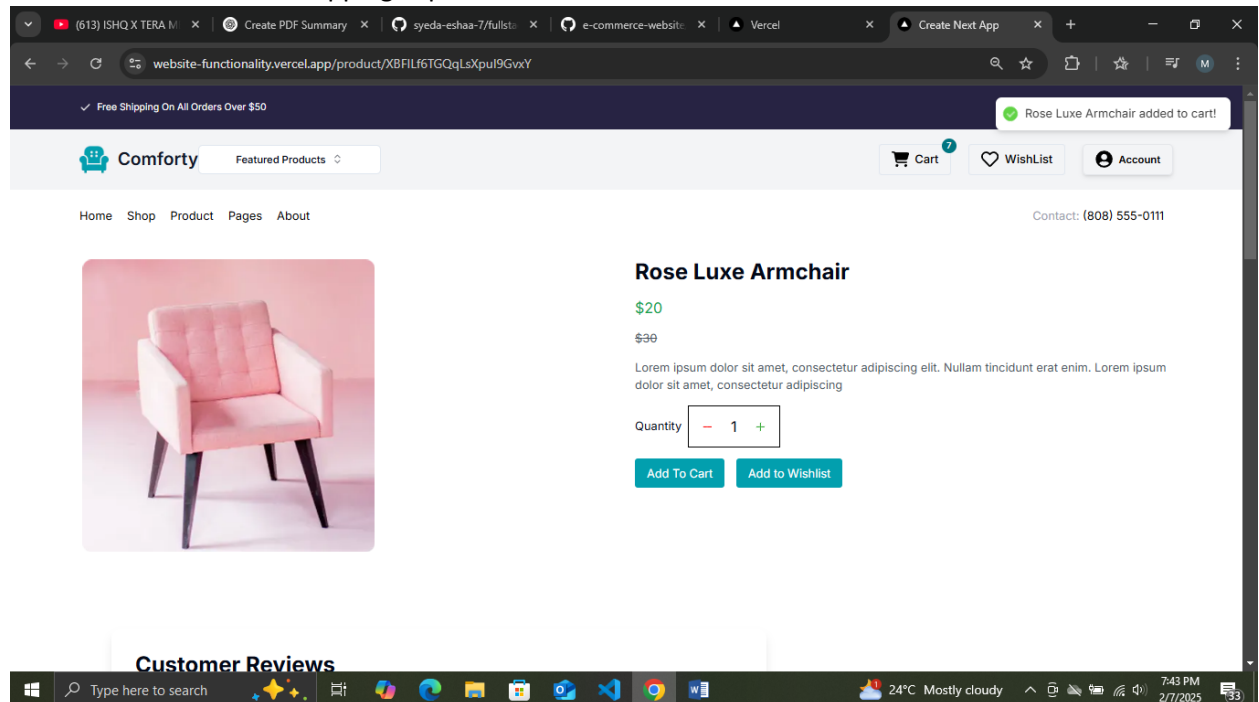
## 5. Reviews & Ratings:

Allows users to share feedback and rate products, helping others make informed purchasing decisions while building trust and credibility.



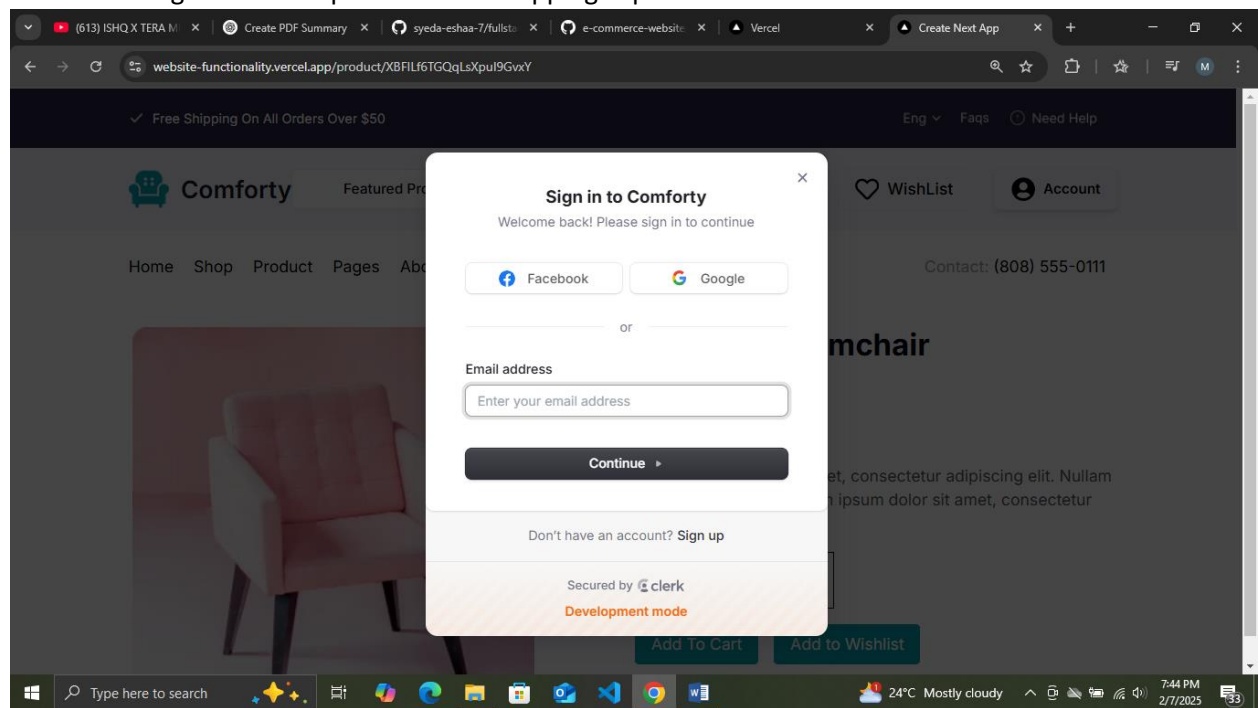
## 6. Add to Cart Functionality:

Enables users to seamlessly add products to their cart, update quantities, and proceed to checkout for a smooth shopping experience.



## 7. Authentication with Clerk:

Secure user authentication is integrated using Clerk, allowing seamless registration, login, and session management for a personalized shopping experience.



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## Conclusion

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The integration of dynamic product pages, advanced filters, featured products, reviews, add-to-cart functionality, and secure authentication with Clerk enhances the Comforty marketplace. These features ensure a seamless, user-friendly, and secure shopping experience, making product discovery and purchasing more efficient.