HACKATHON DAY 4

BUILDING DYNAMIC FRONTEND COMPONENTS FOR BANDAGE

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Hackathon Day 4
Bandage Marketplace Template
Building Dynamic Frontend Components

Objective

On Day 4, students will focus on designing and developing dynamic frontend components to display marketplace data fetched from Sanity CMS or APIs. This task emphasizes creating modular, reusable components while learning real-world practices for building scalable and responsive web applications.

Key Learning Outcomes:

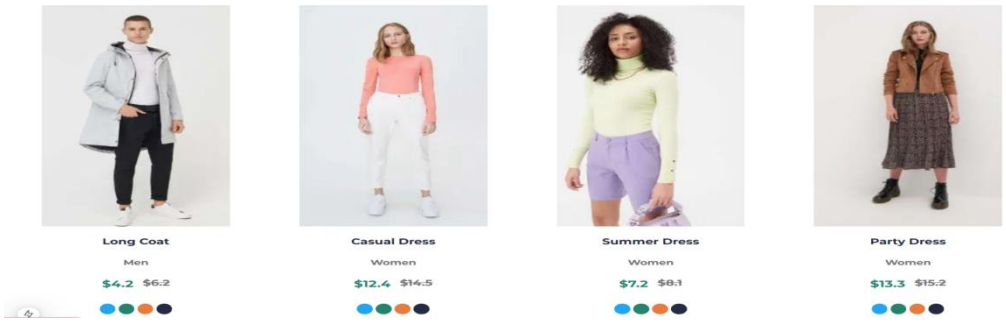
1. **Build dynamic frontend components** that fetch and display data from Sanity CMS or APIs.
2. **Implement reusable and modular components** for easier maintenance and scalability.
3. **Apply state management techniques** to manage data flow across components.
4. **Focus on responsive design** and implement **UX/UI best practices**.

Prepare for **real-world client projects** by replicating professional workflows.

Key Components to Build

1. Product Listing Component:

1. This component will display a list of products dynamically. It will include various product details such as image, availability, description, color, size, rate, reviews, and category.
2. The component will be highly reusable and flexible, allowing data to be passed as props.

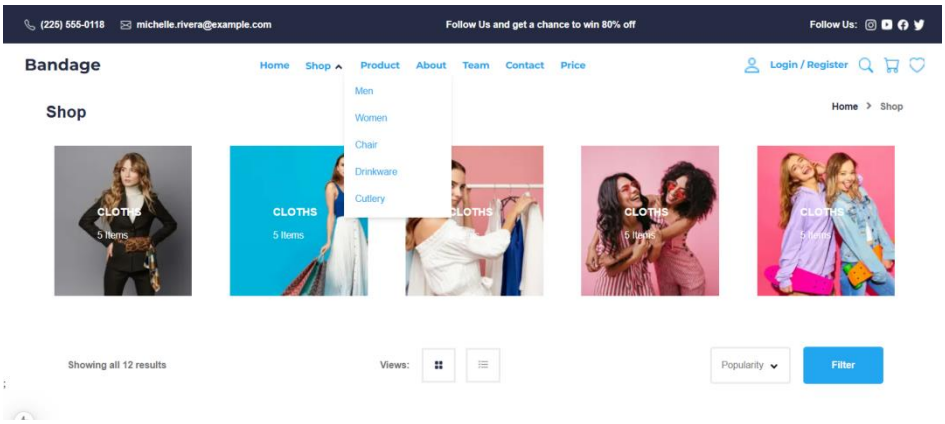


2. Product Detail Component:

1. This component will show detailed information about a single product. It will include information like product image, heading, department, pricing (both original and discounted), and a link to the product's page.

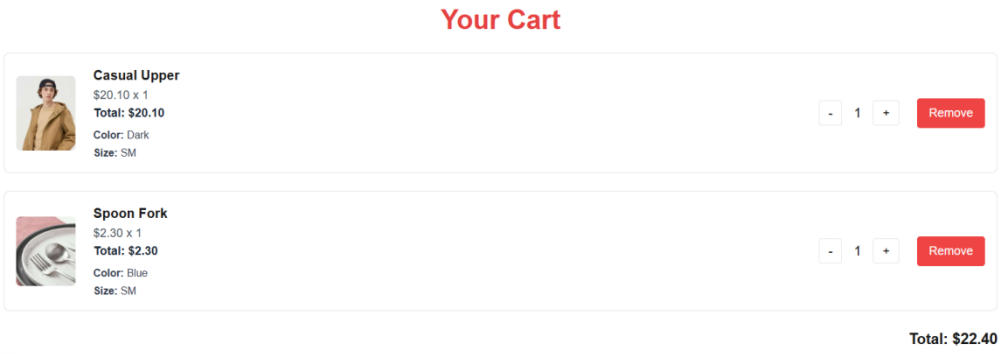
3. Category Component:

1. The category component will filter products based on different categories such as Electronics, Clothing, etc., to enhance user navigation and experience.



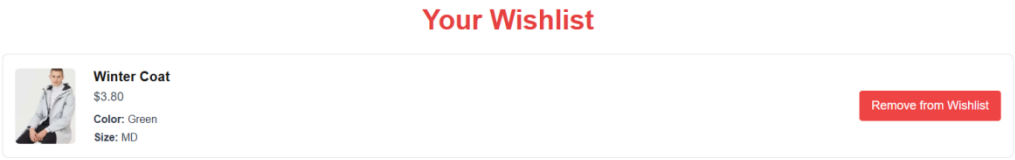
4. Cart Component:

1. This component will allow users to add products to their shopping cart, view the items in the cart, and proceed to checkout.



5. Wishlist Component:

1. The wishlist component will allow users to save products for later purchase.



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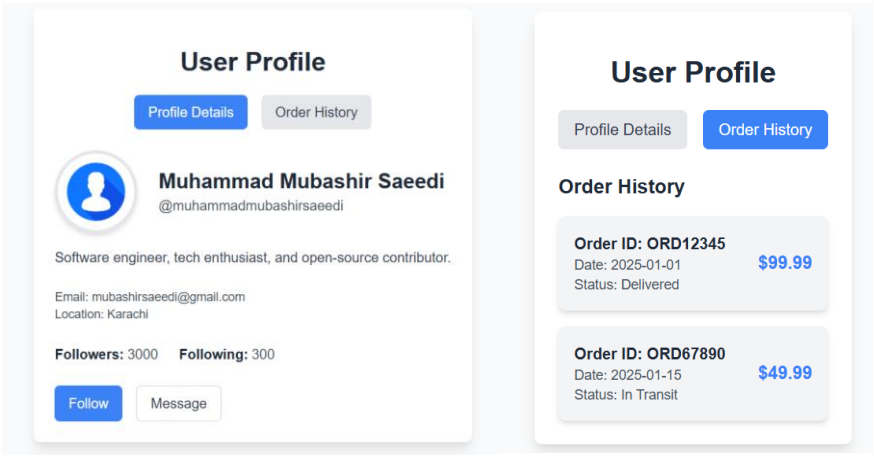
6. User Profile Component:

1. The user profile component will display the user's personal details, order history, and preferences.



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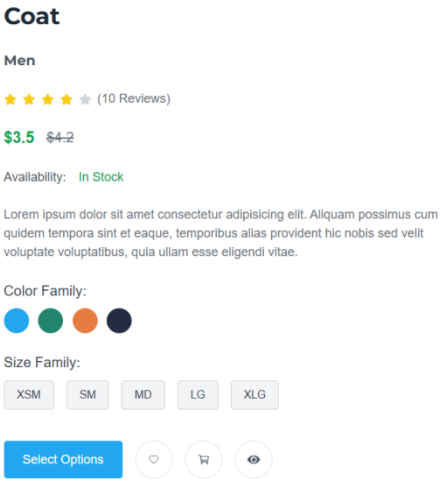
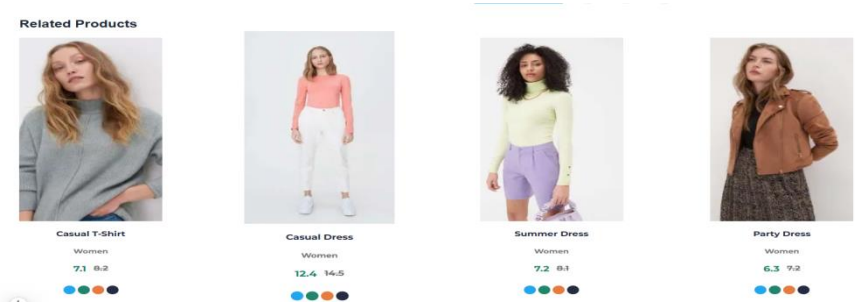
7. Reviews and Ratings Component:

1. This component will enable users to leave reviews and rate products.



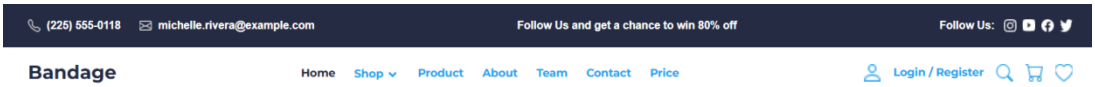
8. Related Products Component:

1. The related products component will show products that are similar to the one the user is viewing, enhancing cross-selling opportunities.



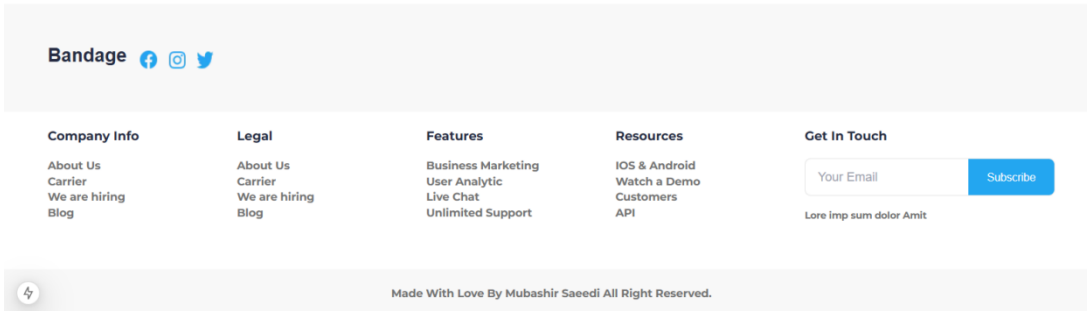
9. Header Components:

1. These will provide navigation links, contact information, and additional utility features throughout the application.



10. Footer Components:

1. These will provide navigation links, contact information, and additional utility features throughout the application.



Self-Validation Checklist for Day 4

1. Product Listing Component	✓	6. User Profile Component	✓
2. Product Detail Component	✓	7. Review Ratings Component	✓
3. Category Component	✓	8. Related ProductsComponent	✓
4. Cart Component	✓	9. Header Component	✓
5. Wishlist Component	✓	10. Footer Component	✓
11. Styling and Responsiveness	✓	12. Code Qaulity	✓
Documentation and Submission			✓

Conclusion:

On Day 4, students gained valuable experience in building dynamic frontend components using real-time data fetched from Sanity CMS or APIs. The focus on modularity, state management, and responsive design ensured that the components were scalable and production-ready. By following best practices, students are now equipped to build dynamic and interactive web applications suitable for real-world projects.