DAY 4 - BUILDING DYNAMIC FRONTEND COMPONENTS

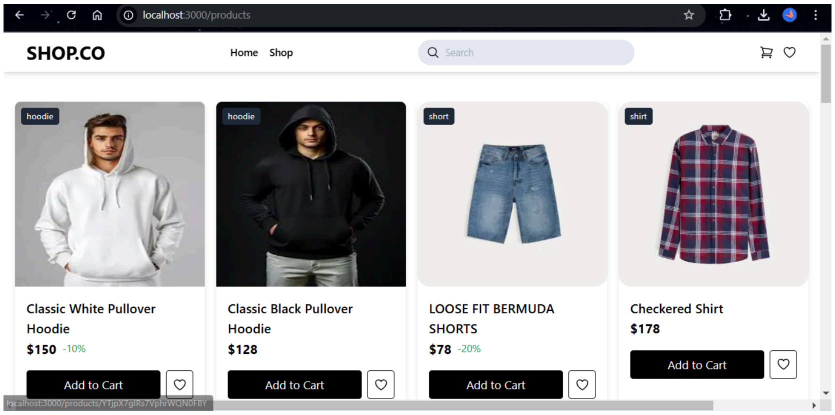
Objective

The objective of this report is to document the integration of core functional features and components for the e-commerce marketplace. This includes the development of product listing pages, individual product detail pages, and dynamic features such as category filters, search functionality, pagination, and related product displays.

Functional Deliverables

1. Product Listing Page

- **Description**: The product listing page displays dynamically fetched products, including their images, categories, and pricing.

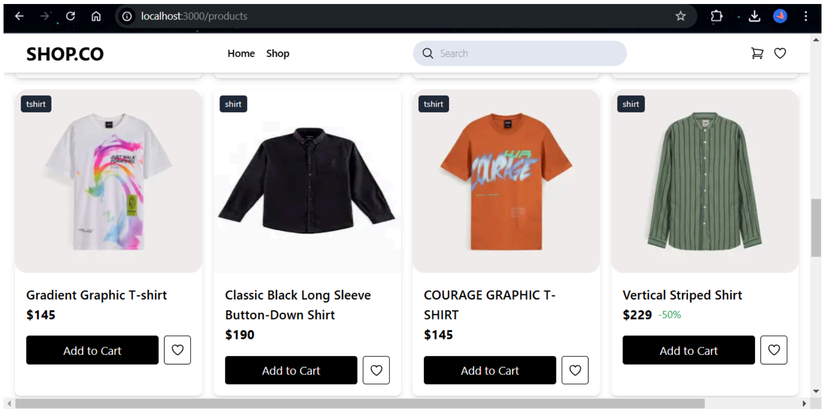


Classic White Pullover Hoodie
$150 -10%

Classic Black Pullover Hoodie
$128

LOOSE FIT BERMUDA SHORTS
$78 -20%

Checkered Shirt
$178



Gradient Graphic T-shirt
$145

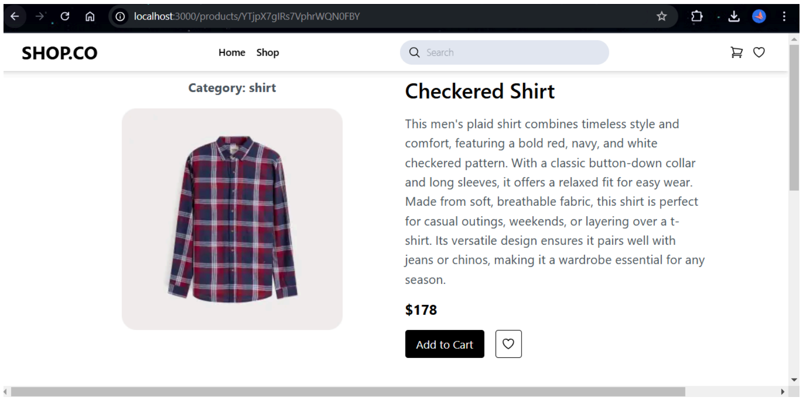
Classic Black Long Sleeve Button-Down Shirt
$190

COURAGE GRAPHIC T-SHIRT
$145

Vertical Striped Shirt
$229 -50%

2. Product Detail Pages

- **Description**: Individual product pages are accessible through dynamic routing, showing detailed information about each product.



localhost:3000/products/YTjpX7gIRs7VphrWQN0FBY

Category: shirt

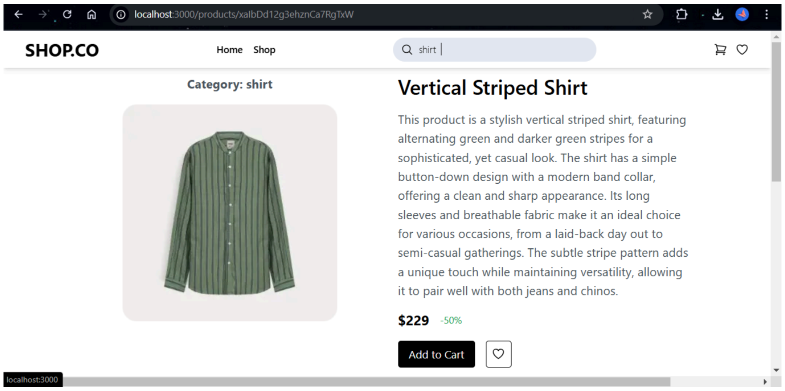
Checkered Shirt

This men's plaid shirt combines timeless style and comfort, featuring a bold red, navy, and white checkered pattern. With a classic button-down collar and long sleeves, it offers a relaxed fit for easy wear. Made from soft, breathable fabric, this shirt is perfect for casual outings, weekends, or layering over a t-shirt. Its versatile design ensures it pairs well with jeans or chinos, making it a wardrobe essential for any season.

$178

3. Category Filters, Search Bar, and Pagination

- **Description**: Implemented category filters, and a search bar for querying products for seamless navigation.



localhost:3000/products/xalbDd12g3ehznCa7RgTxW

shirt

Category: shirt

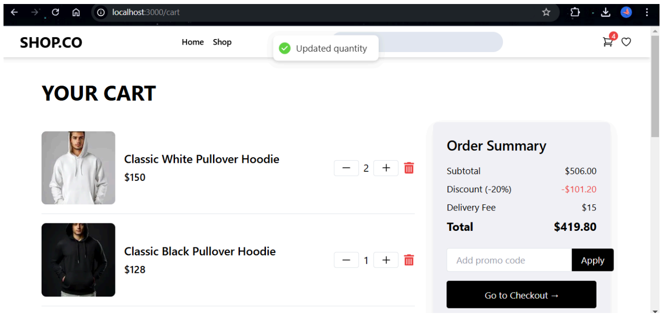
Vertical Striped Shirt

This product is a stylish vertical striped shirt, featuring alternating green and darker green stripes for a sophisticated, yet casual look. The shirt has a simple button-down design with a modern band collar, offering a clean and sharp appearance. Its long sleeves and breathable fabric make it an ideal choice for various occasions, from a laid-back day out to semi-casual gatherings. The subtle stripe pattern adds a unique touch while maintaining versatility, allowing it to pair well with both jeans and chinos.

$229 -50%

4. Cart Functionality

- **Description**: A cart component was developed to manage product selections, including adding and removing items and updating quantities.



localhost:3000/cart

Updated quantity

YOUR CART

Classic White Pullover Hoodie
$150
− 2 +

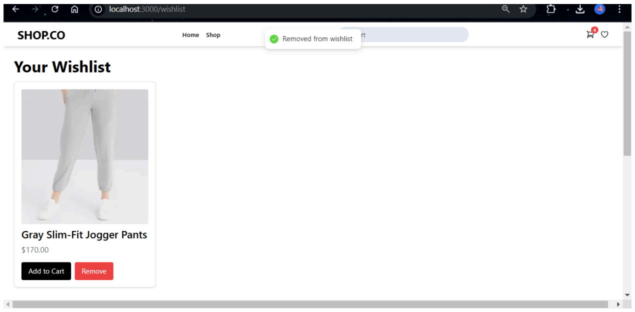
Classic Black Pullover Hoodie
$128
− 1 +

Order Summary

Subtotal	$506.00
Discount (-20%)	-$101.20
Delivery Fee	$15
Total	**$419.80**

5. Wishlist Functionality

- **Description**: Users can add items to their wishlist for future purchases.



localhost:3000/wishlist

SHOP.CO

Removed from wishlist

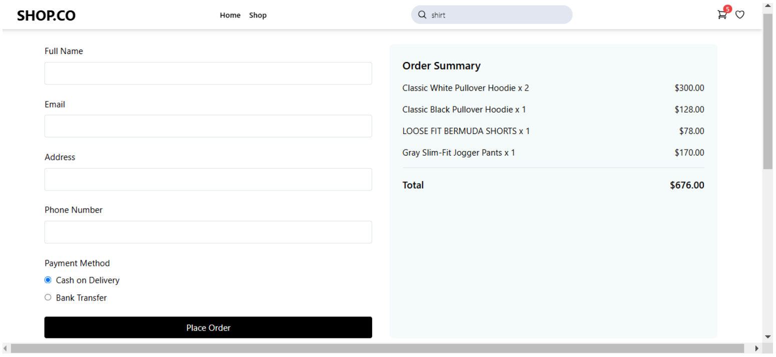
Your Wishlist

Gray Slim-Fit Jogger Pants

$170.00

6. Checkout Process

- **Description**: A simple and secure checkout process was implemented, including collecting shipping information, payment methods, and order confirmation.



SHOP.CO

Full Name

Email

Address

Phone Number

Payment Method

● Cash on Delivery

○ Bank Transfer

Order Summary

Classic White Pullover Hoodie x 2	$300.00
Classic Black Pullover Hoodie x 1	$128.00
LOOSE FIT BERMUDA SHORTS x 1	$78.00
Gray Slim-Fit Jogger Pants x 1	$170.00
Total	$676.00

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1. Steps Taken

- Developed the product listing page with dynamic data fetched via API.
- Implemented dynamic routing for individual product detail pages.
- Integrated category filters, and search functionality to enhance navigation.

2. Challenges and Solutions

- **Challenge**: Implementing dynamic routing for product detail pages.
  - **Solution**: Used Next.js dynamic routing and page generation to handle individual product detail pages based on their ID.

3. Best Practices

- Emphasized code modularity by creating reusable components
- Implemented error handling and loading states during API data fetching to ensure a smooth user experience.
- Followed React best practices, ensuring clean, maintainable code.
