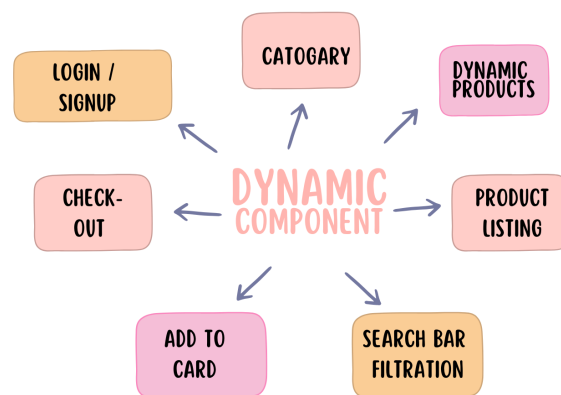# Day 4 – Dynamic Frontend Components Report for Shop.co

1. Introduction

This report highlights the creation of dynamic and responsive frontend components for **Shop.co**, focusing on:
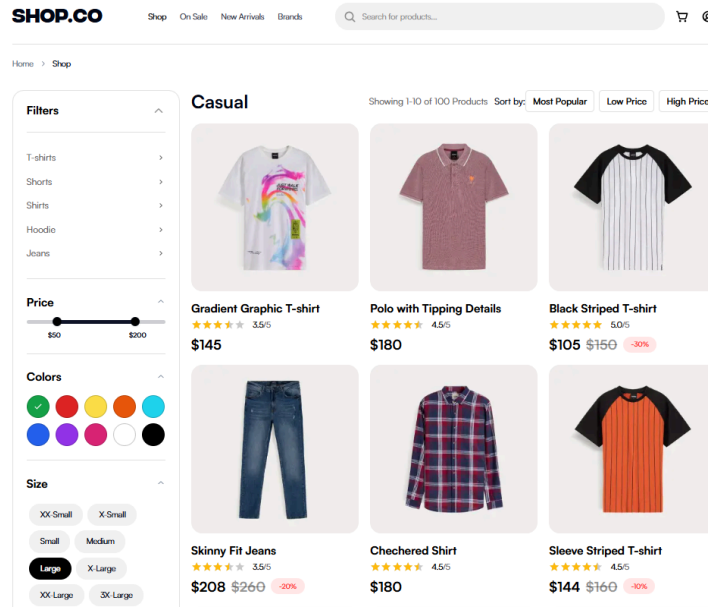
1. Displaying products dynamically.
2. Adding a search bar and filters.
3. Displaying product Listing Page
4. Adding Product Detail Page
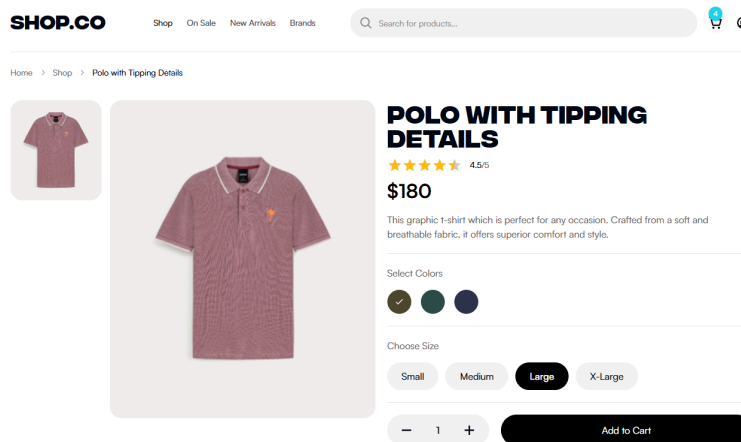5. Building a functional cart for managing orders.

2. Tasks Overview

Step 1: Product Listing

- Dynamically fetched product data from the API.
- Displayed products in a responsive grid layout with names and prices.

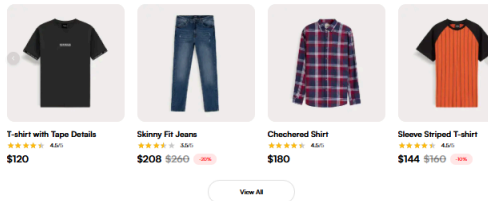
Step 2: Product Detail Page

- Created a detailed view for each product with dynamic routing.
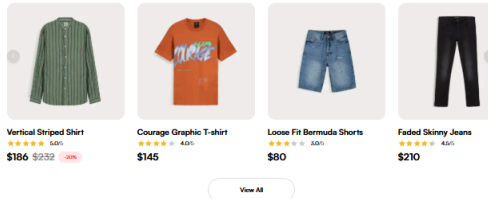- Added an "Add to Cart" button.

Step: 3. Category Component:

- Fetch categories dynamically from the data source.
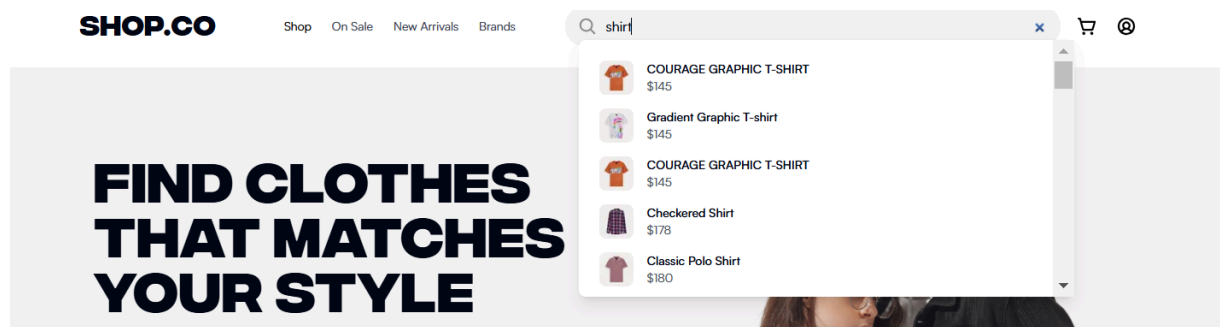- Allow filtering of products by selected categories

NEW ARRIVALS

T-shirt with Tape Details
★★★★★ 4.5/5
$120

Skinny Fit Jeans
★★★★ 3.5/5
$208 $260 -20%

Checkered Shirt
★★★★★ 4.5/5
$180

Sleeve Striped T-shirt
★★★★★ 4.5/5
$144 $160 -10%

View All

TOP SELLING

Vertical Striped Shirt
★★★★★ 5.0/5
$186 $232 -20%

Courage Graphic T-shirt
★★★★★ 4.0/5
$145

Loose Fit Bermuda Shorts
★★★★ 3.0/5
$80

Faded Skinny Jeans
★★★★★ 4.5/5
$210

View All

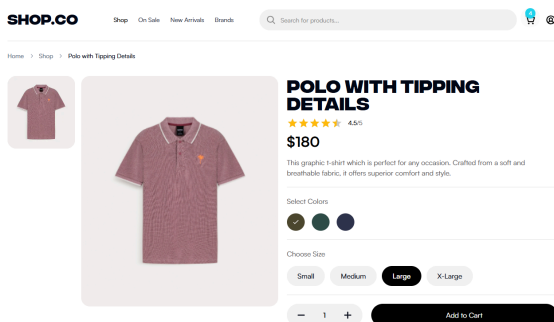## Step 4: Search Bar and Filters

- Designed a search bar to filter products in real time.
- Integrated category filters fetched from the API.
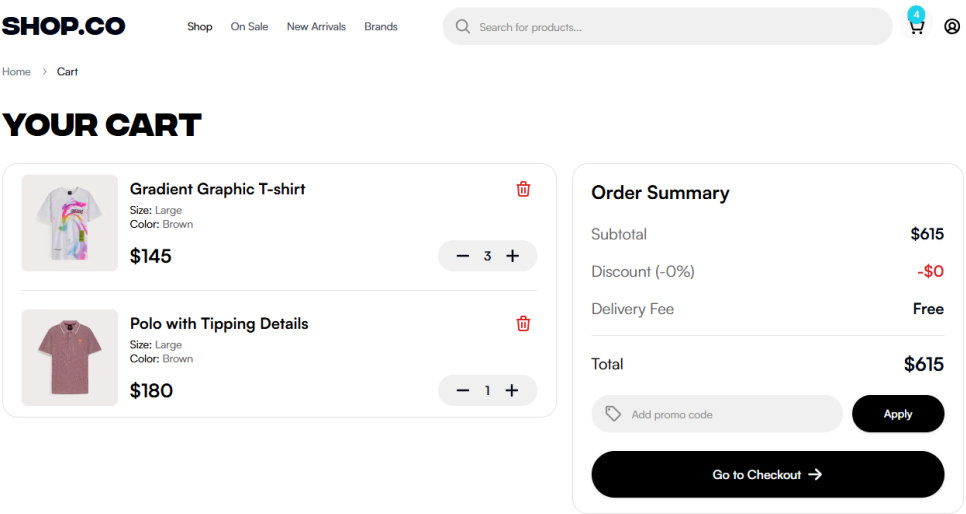

Step 5: Cart Functionality

- Enabled users to add/remove products in the cart.
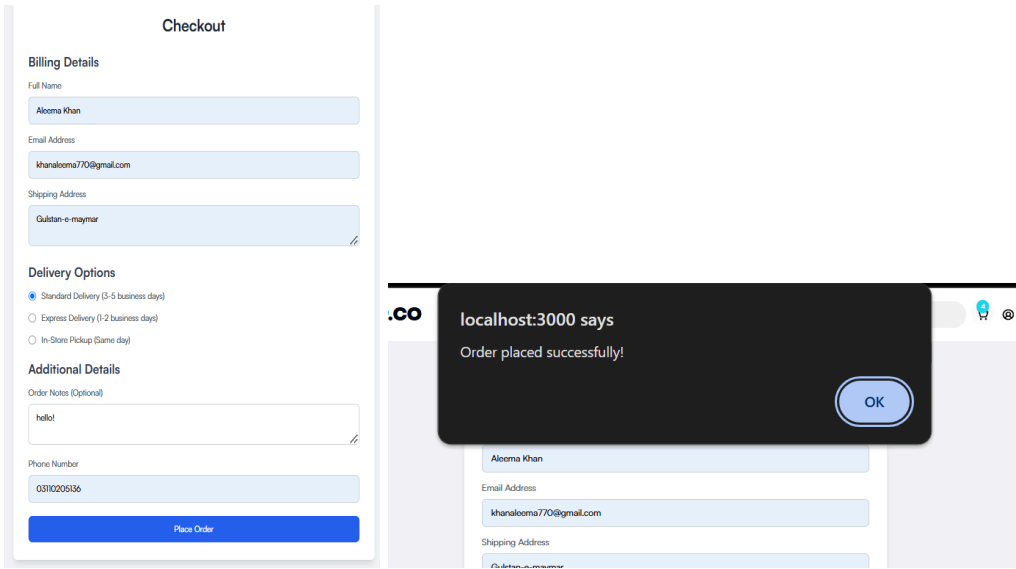- Implemented dynamic cart updates and a checkout button.

When we Click on Add to Card Butthon with selection of colors,sizes and product quantity items successfully added in shopping Card!

Step 6: CheckOut Successfully!

- When User click on checkout button its render checkout page
- After Adding CheckOut Detail

Here's a refined checklist for the *Self-Validation Checklist* based on your report, designed in a table format with appropriate headers. This should give a clear structure to your validation and help you ensure everything is complete:

Self-Validation Checklist for Frontend Development

Frontend Component Development ✔ ✘

✔ Dynamic product listing

✔ Product detail page functionality

✔ Category filter component

✔ Search bar functionality

✔ Cart functionality (add/remove items)

✘ Checkout functionality

✘ Login/SignUp Page

Styling and Responsiveness ✔ ✘

✔ Responsive grid layout for product listings

✔ Consistent UI design across all pages

✔ Mobile responsiveness

Code Quality ✔ ✘

✔ Modular and reusable components

✔ Clean and organized code structure

✔ Proper use of state management and data binding

✔ Optimization for performance and loading speed

Documentation and Submission ✔ ✘

✔ Clear documentation for each component

✔ Steps for setting up and running the application

✔ Code comments and explanations

✔ Submission before the deadline

Final Review   ✔ ✗

✔ All functionality tested (products, cart, checkout)

✔ UI/UX reviewed for user-friendliness

✔ No bugs/issues identified in the development

Professional Practices Emphasized   ✔ ✗

✔ Modular and reusable component design

✔ State management and dynamic data binding

✔ Responsive and user-friendly UI design

✔ Thorough documentation for code and
processes

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3. Conclusion

The dynamic frontend components were successfully built, enhancing the user experience with responsive layouts, dynamic filtering, and cart functionality. Screenshots validate the completed work.

Author: Aleema Khan

Slot: Saturday 2 to 5

Task Given By: Sir Ameen Alam

Class Teachers: Sir Muhammad Bilal & Sir Ali Aftab Sheikh