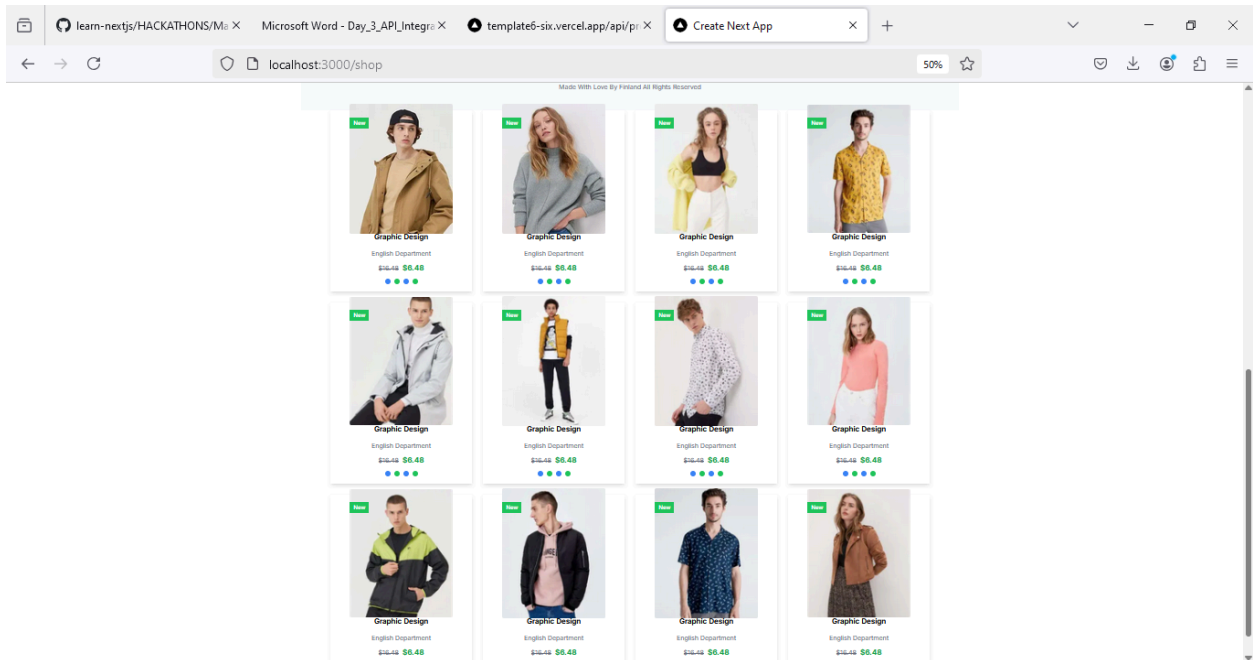# Day 4 - Building Dynamic Frontend Components for Your Marketplace

Product Listing

Key Features:

1. **Responsive Grid Layout**:
   - Displays products dynamically in a grid format using Tailwind CSS (`grid-cols` classes).
   - Adjusts automatically for mobile, tablet, and desktop devices.
2. **Product Card Design**:
   - Includes **image**, **title**, **category**, **price (original + discounted)**, and **badges** (e.g., "New")

- ○ .Clean, consistent styling with hover effects
3. **Dynamic Rendering**:
   - ○ Products are rendered using React's `map()` function with data fetched from an API or static JSON file.
4. **Interactivity**:
   - ○ Clickable cards for product details.
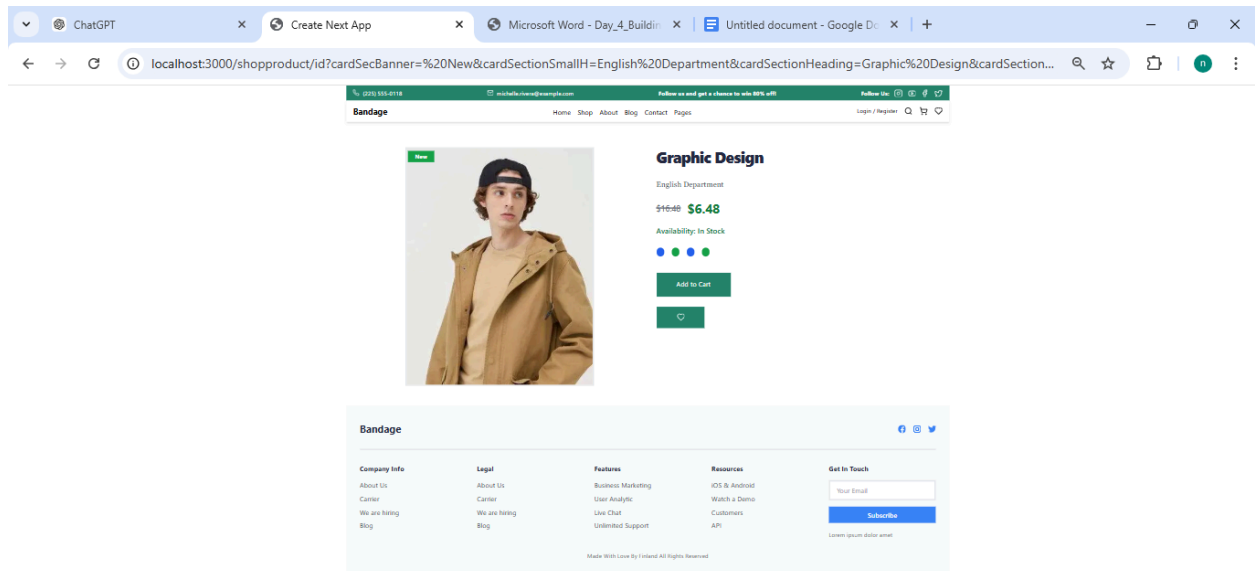   - ○ Optional wishlist or cart integration.
5. **Accessibility**:
   - ○ Includes `alt` attributes and semantic HTML for compatibility with assistive technologies.
6. **Efficient Loading**:
   - ○ Lazy loading for images and optional pagination for large datasets.

Dynamic Routing and Data Integration Using Sanity

Dynamic Routing in Product Details Page

- The product details page uses **Next.js Dynamic Routing**, which allows every product to have its own unique URL.
- For example, when a user clicks on a product, they are redirected to a URL like `/shopproduct/id`, where `id` represents the unique identifier or slug of that product.
- This routing is enabled by a file in the `pages` directory, typically named `[id].tsx` or `[slug].tsx`.
- Using the `id` or `slug` from the URL, the page fetches product data dynamically, ensuring that the content is specific to the product clicked.

Data Fetching from Sanity CMS

- The product details displayed on this page are fetched dynamically from **Sanity CMS**. This includes:
  - **Title**: The product name, e.g., "Graphic Design."
  - **Price**: Both the original price and the discounted price.
  - **Stock Status**: Displays availability such as "In Stock."

- **Images**: Product images are stored in Sanity and optimized for fast loading using Sanity's Image API.
- **Color Variants**: Available colors are retrieved and rendered as options.
- **Description and Features**: Detailed information about the product, managed in Sanity.

Add-to-Cart and Checkout Pages

add to cart   checkout page
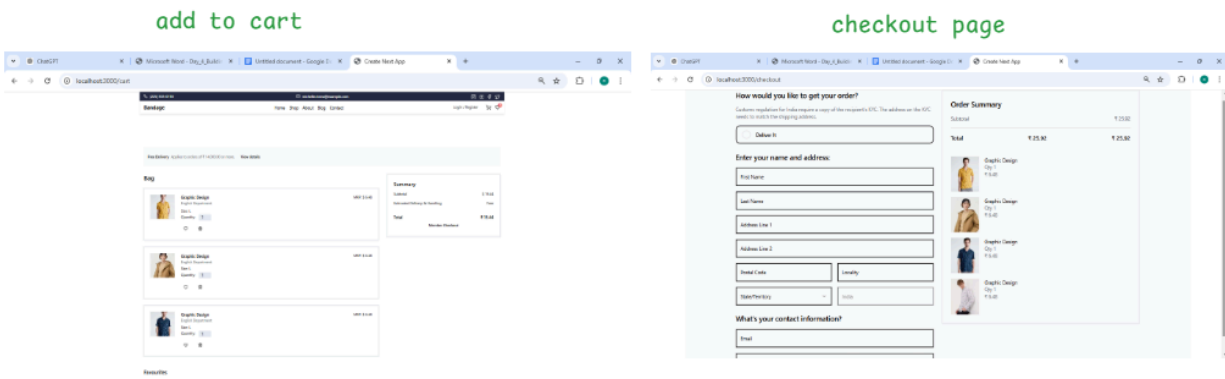
Add-to-Cart Page

- **Purpose**:
  The Add-to-Cart page is designed to allow users to review the items they have selected for purchase, adjust quantities, and see the total cost of their shopping cart before proceeding to checkout. It serves as a critical step in the e-commerce process, enabling users to make changes or finalize their cart contents.
- **Key Features**:
  1. **Product Display**:
     - Shows each product added to the cart with details like name, department, size, quantity, and price.
     - Displays a thumbnail image of the product for easy identification.

2. **Quantity Adjustment**:
    - Users can increase or decrease the quantity of each product using a quantity selector.
    - Option to remove an item from the cart entirely.
3. **Cart Summary**:
    - A dedicated summary section on the right displays the subtotal, estimated delivery charges, and the final total amount.
    - Includes messaging such as "Free Delivery applies to orders above ₹14,000" to encourage larger purchases.
4. **Responsive Layout**:
    - Ensures the page looks good on various devices, with a focus on clarity and usability.

- **Current State**:
  This page appears to be built with static or locally managed data. It does not currently integrate dynamic data fetched from a CMS like **Sanity**, as no API connection or content delivery system is being utilized for the products.

Checkout Page

- **Purpose**:
  The Checkout page is where users finalize their purchase by providing essential shipping details, reviewing their order summary, and confirming the transaction. It plays a vital role in ensuring that users can seamlessly complete their shopping experience.
- **Key Features**:
  1. **Form for User Details**:
      - Includes input fields for collecting the user's personal details like:

- First Name
- Last Name
- Address Line 1 and Line 2
- Postal Code, Locality, and State/Territory
- Email address for communication and receipts.
    - Ensures all essential details for shipping and billing are captured in a structured format.
2. **Order Summary**:
    - Displays a list of all products being purchased with details like:
        - Product name
        - Quantity
        - Price per unit
    - Provides the total cost at the bottom for user confirmation before proceeding further.
3. **Delivery Options**:
    - A simple selection option for delivery, currently showing a placeholder option ("Deliver It"). This can be expanded to include express delivery, standard shipping, etc.
4. **Responsiveness and User-Focused Design**:
    - Optimized for a smooth user experience across all screen sizes, ensuring the layout adjusts seamlessly.

Wishlist page
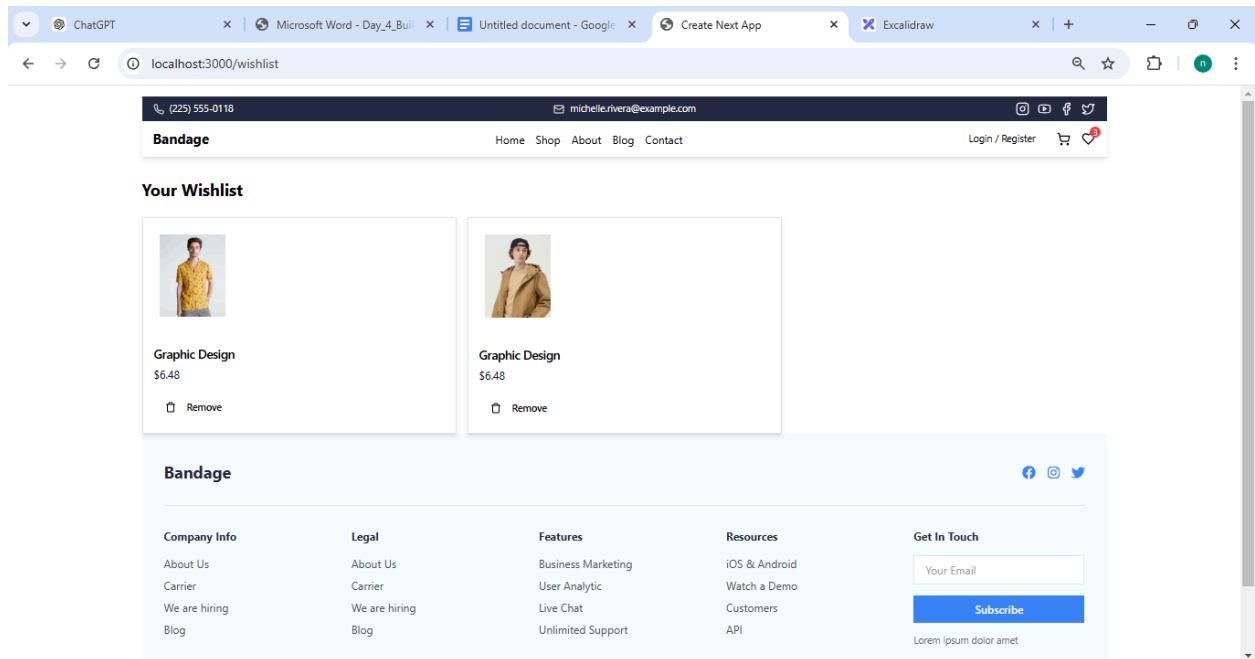
1. Wishlist Items:

- **Product Cards:**
    - Each product in the wishlist is displayed in a clean, card-based layout.
    - Key details for every product include:
        - High-quality product image.
        - Product name and department (e.g., "Graphic Design - English Department").
        - Price and any discounts applied, clearly displayed.
        - Color and size options, where applicable.
        - Buttons or icons for quick actions:
            - **Add to Cart:** Allows users to move a product directly to their shopping cart for purchase.
            - **Remove:** A clear option to delete the product from the wishlist.

2. Empty Wishlist State:

- If no items are in the wishlist:
    - A user-friendly message is displayed, encouraging users to browse the shop and add items to their wishlist.
    - Includes a button linking to the "Shop" page for easy navigation.

Login Form

A centered card layout with "Welcome Back" heading
Email and password input fields
A primary "Sign In" button
Social login options for Google and GitHub
A sign-up link for new users
Responsive design that works on all screen sizes
Modern styling using shadcn/ui components and Tailwind CSS