

## Day 4 - Building Dynamic Frontend Components for Your Marketplace:

### Objective:

Design and develop **dynamic, modular, and reusable frontend components** to display marketplace data from **Sanity CMS or APIs**.

### Key Tasks:

- 1. Product Listing Component:**
  - Render products dynamically in a **grid layout**.
  - Include **name, price, image, and stock status**.
- 2. Product Detail Component:**
  - Display **detailed product information** (description, price, variations).
  - Implement **dynamic routing** in Next.js.
- 3. Category & Filter Panel:**
  - Display **categories dynamically**.
  - Add filters like **price range, brand selection, and availability**.
- 4. Search Bar & Pagination:**
  - Implement **search functionality** to filter products by name/tags.
  - Add **pagination** for large product lists.
- 5. Cart & Wishlist:**
  - Use **state management** to track cart items and wishlist.
  - Persist wishlist data using **local storage or global state**.
- 6. Checkout Flow:**
  - Create a **multi-step form** for billing, shipping, and payment (mock).
- 7. User Profile & Reviews:**
  - Display **user details and order history**.
  - Enable users to **submit reviews and view ratings**.
- 8. Header, Footer & Notifications:**
  - Build **consistent navigation & branding**.
  - Add **toast notifications** for cart updates, errors, etc.

### Best Practices:

Use **modular and reusable components**.

Manage state with **React Context API or useState**.

Ensure **responsive design** using Tailwind CSS.

Optimize performance with **lazy loading and efficient data fetching**.

### Expected Output:

**Functional product listing & detail pages.**

**Working search, category filters, and pagination.**

**Well-structured, scalable frontend components.**

