

# E-Commerce Assignment

## 1. Pages & UI Structure (Detailed)

### Homepage

Section	Description
Top Navigation	Sticky navbar with logo, mega dropdown for categories, search bar with autocomplete, icons for login, wishlist, and cart
Hero Banner	Full-width carousel with CTA buttons (Shop Now), auto-scroll + manual arrows
Promotions	Grid: 3 or 4 banners with seasonal sales, discount codes
Featured Categories	Icons or images (e.g., "Electronics", "Clothing", "Home") – clickable blocks
Trending Products	Horizontal scroll product carousel with ratings & "Add to Cart" buttons
Newsletter Signup	Email input, CTA button, success state confirmation
Footer	Split into 4–6 columns: Support links, Social media, Newsletter, Mobile app links, Payment icons

### Product Listing Page (PLP)

Element	Description
Filter Sidebar	Accordions for: Brand (checkboxes), Price Range (slider), Color (swatches), Size (tags), Availability (toggle)
Sorting Bar	Dropdown: Price Low to High, High to Low, Best Selling, Newest
Product Grid	Responsive grid (3–5 columns), card includes image, title, price, ratings, wishlist icon
Pagination	Bottom pagination with page numbers, next/prev

## Product Detail Page (PDP)

Element	Description
Image Gallery	Main image with thumbnails below, zoom-on-hover, full-screen view option
Title & Ratings	Product title, star rating with review count
Price Info	Original price (if discounted), discount badge
Variant Selector	Size (buttons), Color (swatches), Quantity input
Add to Cart/Wishlist	Prominent primary/secondary buttons
Delivery Info	Estimated delivery date based on zip code input
Product Description	Expandable section
Technical Specs	Tabbed content or bullet list
Reviews	User reviews, star filters, photo uploads
Related Items	Carousel of similar products

## Cart Page

Element	Description
Cart Items Table	Each row: thumbnail, name, variant info, quantity input (stepper), remove button
Summary Panel	Subtotal, taxes, estimated shipping, promo code input
Action Buttons	“Continue Shopping”, “Proceed to Checkout” (highlighted)

## Checkout Page

Step	Description
Login/Register Prompt	Inline sign-in or continue as guest
Shipping Form	Name, address, phone, delivery options
Billing Info	Optional toggle for “Same as shipping”
Payment	Credit card, PayPal, Apple Pay, etc.
Review Section	Summary of items, shipping, total
Confirmation Button	“Place Order”, success feedback upon click

## User Dashboard

Section	Description
Sidebar Navigation	Profile, Orders, Wishlist, Addresses, Payment Methods, Logout
Profile Section	Name, email, phone, editable
Orders	Table with status tags (Shipped, Delivered, Processing)
Wishlist	Grid with “Add to Cart” buttons
Address Book	Editable list with “Set as default” toggle
Saved Cards	Masked number display, remove/edit options

## 2. Component Blueprints (Figma Variants)

### Buttons

Type	States
Primary	Default, Hover, Pressed, Disabled
Secondary	Default, Hover, Disabled
Icon Only	Search, Wishlist, Cart

### Inputs

- Text field: Normal, Focused, Error
- Select dropdown: Normal, Active
- Radio buttons & checkboxes (Custom-styled)

### Cards

- Product Card: Image, name, price, star rating, badges (Sale/New)
- Category Card: Icon or image, name
- Review Card: User avatar, text, date, rating

### 3. Dynamic Content (Data Models)

#### Products

```
{
  "id": "prod_001",
  "title": "Nike Air Zoom Pegasus",
  "description": "Running shoes with responsive cushioning",
  "price": 120,
  "discount_price": 90,
  "variants": [
    { "size": "M", "color": "Black", "stock": 10 },
    { "size": "L", "color": "White", "stock": 0 }
  ],
  "ratings": 4.6,
  "images": ["img1.jpg", "img2.jpg"],
  "category": "Footwear",
  "tags": ["running", "sale"],
  "reviews": [...]
}
```

#### Users

```
{
  "id": "user_001",
  "name": "Jane Doe",
  "email": "jane@example.com",
  "wishlist": ["prod_001", "prod_020"],
  "orders": [...],
  "addresses": [...],
  "payment_methods": [...]
}
```

## 4. Responsive Design

Breakpoint	Layout Adaptation
Desktop ( $\geq 1200\text{px}$ )	Full grid, filters sidebar visible
Tablet ( $768\text{--}1199\text{px}$ )	Collapsible filters, 2–3 product columns
Mobile ( $\leq 767\text{px}$ )	Hamburger menu, 1-column layout, sticky bottom cart button

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## 5. User Flow Mapping (Sample)

**Browsing → Adding to Cart → Checkout**

pgsql

Homepage → Category Page → Product Detail → Add to Cart  
→ View Cart → Checkout → Payment → Order Confirmation

**Returning User**

Login → Dashboard → Order History → Reorder

## 6. Optional Advanced Features

- Live Chat Widget
- AI Recommendations (Recently Viewed, You May Like)
- Progressive Web App (PWA) structure
- Dark Mode Toggle
- Multilingual/Multicurrency Support

