The University of Lahore

Project Report (Adv)

Project Title: Smart shopping web store

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Project Overview

Smart Shopping Web Store is a fully functional e-commerce web application built with React JS. It features a modern, responsive design for selling garments and cosmetics online. The store name is "Saad Amjad Garments and Cosmetics".

Key Highlights:

- **100% Frontend** - No backend required
- **React Hooks** - Modern functional components
- **Responsive Design** - Works on all devices
- **Shopping Cart** - Add, remove, and manage items
- **Product Filtering** - Search and category filters
- **Professional UI** - Clean and modern design

Features

1. Navigation System

- Sticky navbar with active page highlighting
- Cart badge showing total items
- Smooth page transitions

2. Home Page

- Eye-catching hero banner
- Category cards (Garments & Cosmetics)
- Featured products showcase

3. Products Page

- All products display (12 items total)
- Search functionality
- Category filtering (All, Garments, Cosmetics)
- Responsive product grid

4. Shopping Cart

- Add products with quantity tracking
- Increase/decrease quantity
- Remove items
- Total price calculation
- Shipping cost included

5. Product Features

- Product images
- Ratings display
- Price in Pakistani Rupees
- Category badges
- Detailed descriptions

Technologies Used

- **React JS** (v18+) - JavaScript library for UI
- **React Hooks** - useState, useEffect
- **CSS3** - Custom styling with animations

Learning Outcomes

By studying this project, you'll learn:

1. **React Fundamentals**
   - Component structure
   - Props and state
   - Event handling
   - Conditional rendering
2. **React Hooks**
   - useState for state management
   - useEffect for side effects
   - Custom event handlers
3. **JavaScript ES6+**
   - Arrow functions
   - Array methods (map, filter, reduce)
   - Destructuring
   - Spread operator
4. **CSS Skills**
   - Flexbox and Grid
   - Animations
   - Responsive design
   - Modern styling
5. **E-commerce Concepts**
   - Shopping cart logic
   - Product filtering
   - Price calculations
   - User interaction flows

Some Screenshots Of Code:

```css
# Style.css    JS App.js    ×
smart-shopping-store > src > JS App.js > [@] default
1   import React, { useState, useEffect } from 'react';
2   import { ShoppingCart, Home, Package, Search, Star, Trash2, Plus, Minus } from 'lucide-react';
3
4   // Inline Styles
5   const styles = `
6   * {
7     margin: 0;
8     padding: 0;
9     box-sizing: border-box;
10  }
11
12  body {
13    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
14    background-color: #f5f5f5;
15    color: #333;
16    line-height: 1.6;
17  }
18
19  .app {
20    min-height: 100vh;
21    display: flex;
22    flex-direction: column;
23  }
24
25  .main-content {
26    flex: 1;
27    padding: 20px;
28    max-width: 1400px;
29    margin: 0 auto;
30    width: 100%;
31  }
32
33  .navbar {
```

```css
# Style.css    JS App.js    ×
smart-shopping-store > src > JS App.js > [@] default
5   const styles = `
550     border-bottom: none;
551     font-size: 1.5rem;
552     font-weight: 700;
553     color: #667eea;
554     margin-top: 1rem;
555   }
556
557   .checkout-btn {
558     width: 100%;
559     background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
560     color: white;
561     border: none;
562     padding: 1.2rem;
563     font-size: 1.2rem;
564     font-weight: 600;
565     border-radius: 10px;
566     cursor: pointer;
567     margin-top: 1.5rem;
568     transition: all 0.3s ease;
569   }
570
571   .checkout-btn:hover {
572     transform: translateY(-3px);
573     box-shadow: 0 8px 20px rgba(102, 126, 234, 0.4);
574   }
575
576   .footer {
577     background: #2c3e50;
578     color: white;
579     margin-top: 3rem;
580   }
```

```javascript
# Style.css    JS App.js    ×
smart-shopping-store > src > JS App.js > [@] default
5   const styles = `
709     .categories-grid {
710       grid-template-columns: 1fr;
711     }
712   }
713   `;
714
715   // Dummy Product Data
716   const productsData = [
717     // Garments
718     { id: 1, name: 'Premium Cotton T-Shirt', category: 'garments', price: 1299, image: 'https://images.unsplash.com/photo-1521572163474-6864f9cf17
719     { id: 2, name: 'Denim Jeans - Slim Fit', category: 'garments', price: 2499, image: 'https://images.unsplash.com/photo-1542272604-787c3835535d?
720     { id: 3, name: 'Casual Shirt - Checkered', category: 'garments', price: 1799, image: 'https://images.unsplash.com/photo-1596755094514-f87e3408
721     { id: 4, name: 'Formal Blazer - Black', category: 'garments', price: 4999, image: 'https://images.unsplash.com/photo-1507679799987-c73779587cc
722     { id: 5, name: 'Summer Dress - Floral', category: 'garments', price: 2299, image: 'https://images.unsplash.com/photo-1595777457583-95e059d581b
723     { id: 6, name: 'Sports Jacket - Blue', category: 'garments', price: 3499, image: 'https://images.unsplash.com/photo-1551028719-00167b16eac5?w=
724
725     // Cosmetics
726     { id: 7, name: 'Hydrating Face Cream', category: 'cosmetics', price: 899, image: 'https://images.unsplash.com/photo-1556228720-195a672e8a03?w=
727     { id: 8, name: 'Matte Lipstick Set', category: 'cosmetics', price: 1499, image: 'https://images.unsplash.com/photo-1586495777744-4413f21062fa?
728     { id: 9, name: 'Anti-Aging Serum', category: 'cosmetics', price: 1999, image: 'https://images.unsplash.com/photo-1620916566398-39f1143ab7be?w=
729     { id: 10, name: 'Eye Shadow Palette', category: 'cosmetics', price: 1299, image: 'https://images.unsplash.com/photo-1512496015851-a90fb38ba796
730     { id: 11, name: 'Perfume - Floral Essence', category: 'cosmetics', price: 2499, image: 'https://images.unsplash.com/photo-1541643600914-78b084
731     { id: 12, name: 'Sunscreen SPF 50+', category: 'cosmetics', price: 799, image: 'https://images.unsplash.com/photo-1556228852-80c3b5732fe9?w=40
732   ];
733
734   // Navbar Component
735   const Navbar = ({ currentPage, setCurrentPage, cartCount }) => {
736     return (
737       <nav className="navbar">
738         <div className="nav-container">
739           <div className="nav-logo">
```

Some Screenshots Of Output: