

System Architecture Report: E-commerce App Design

Overview

An e-commerce mobile application design featuring product listings, user profiles, and shopping cart functionality. The design emphasizes a clean, modern interface with intuitive navigation.

Pages & UI Elements

Page: Home

Frame: Home Screen (FRAME)

Page: Product Details

Frame: Product Details Screen (FRAME)

Page: Shopping Cart

Frame: Shopping Cart Screen (FRAME)

Page: User Profile

Frame: User Profile Screen (FRAME)

Primary Button (BUTTON)

```
{ "background_color": "#0066FF", "text_color": "#FFFFFF", "border_radius": 8, "padding": "12px 24px" }
```

Secondary Button (BUTTON)

```
{ "background_color": "#FFFFFF", "text_color": "#0066FF", "border_radius": 8, "padding": "12px 24px", "border": "1px solid #0066FF" }
```

Product Card (CARD)

```
{ "background_color": "#FFFFFF", "border_radius": 8, "shadow": "0 2px 4px rgba(0, 0, 0, 0.1)" }
```

Search Bar (INPUT)

```
{ "background_color": "#F5F5F5", "border_radius": 8, "padding": "10px 16px" }
```

User Avatar (IMAGE)

```
{ "border_radius": "50%", "width": 40, "height": 40 }
```

Design System

Colors: {"primary": "#0066FF", "secondary": "#FFFFFF", "background": "#F5F5F5", "text": "#333333"}

Typography: Heading - 24px Inter

Typography: Subheading - 18px Inter

Typography: Body - 16px Inter

User Flows

User opens app → sees home screen with product listings → taps on a product → views product details → adds to cart → proceeds to checkout

User opens app → taps on profile icon → views user profile → edits profile information → saves changes

Tech Recommendations

React Native with TypeScript for cross-platform development, or SwiftUI for iOS and Jetpack Compose for Android for native development. Use Tailwind CSS for styling.

System Architecture Diagram

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