

# 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

Architecture diagram generation failed: expected str, bytes or os.PathLike object, not ImageReader