I'll provide you with comprehensive TypeScript code for all the missing cart components. These are production-ready components designed specifically for your grocery delivery app.Perfect! I've provided you with comprehensive TypeScript code for all the missing cart components. Here's what each component offers:

**🛒 Cart Components Overview**

**1. CartItem.tsx**

* **Features**: Quantity controls, remove functionality, price display, stock management
* **States**: Editable/read-only modes, loading states, stock warnings
* **Integration**: Real-time cart updates, confirmation dialogs
* **Use Cases**: Cart screen, order review, checkout summary

**2. CartSummary.tsx**

* **Features**: Detailed breakdown, tax calculations, delivery charges, coupon discounts
* **Variants**: Detailed and simple views for different contexts
* **Integration**: Delivery slot selection, coupon management
* **Use Cases**: Cart totals, checkout summary, order confirmation

**3. CouponInput.tsx**

* **Features**: Code input, available coupons list, eligibility checking, expiry handling
* **States**: Applied coupon display, minimum order validation
* **Integration**: Cart discount system, promotional campaigns
* **Use Cases**: Cart discounts, promotional offers, loyalty rewards

**🎯 Usage Examples**

// CartItem in cart list

<CartItem

item={cartItem}

onQuantityChange={handleQuantityChange}

onRemove={handleRemoveItem}

onProductPress={(productId) => navigation.navigate('ProductDetails', {productId})}

editable={true}

showProductDetails={true}

testID="cart-item"

/>

// CartSummary in checkout

<CartSummary

cart={cart}

deliverySlot={selectedDeliverySlot}

deliveryCharge={calculatedDeliveryCharge}

taxRate={0.05} // 5% VAT in UAE

onEditCoupon={() => setCouponModalVisible(true)}

onEditDeliverySlot={() => setSlotModalVisible(true)}

showDeliveryInfo={true}

showTaxBreakdown={true}

variant="detailed"

testID="cart-summary"

/>

// CouponInput for discounts

<CouponInput

onApply={handleApplyCoupon}

onRemove={handleRemoveCoupon}

currentCoupon={appliedCoupon}

availableCoupons={availableCoupons}

cartTotal={cart.totalAmount}

loading={isApplyingCoupon}

testID="coupon-input"

/>

**✨ Key Features**

**🛒 CartItem Features**

* **Smart quantity controls** with stock validation
* **Price breakdown** showing unit price and total
* **Discount indicators** with savings display
* **Organic badges** for certified products
* **Remove confirmation** to prevent accidental deletion
* **Loading states** during cart updates
* **Stock warnings** when maximum quantity reached

**📊 CartSummary Features**

* **Comprehensive breakdown** of all charges
* **UAE VAT calculation** (5% tax rate)
* **Delivery slot integration** with editable options
* **Coupon discount display** with applied savings
* **Two display variants** (detailed/simple)
* **Savings highlights** to show customer value
* **Editable sections** with intuitive icons

**🎫 CouponInput Features**

* **Code validation** with proper error handling
* **Available coupons carousel** with eligibility checking
* **Minimum order validation** with helpful prompts
* **Expiry date handling** with visual indicators
* **Applied coupon display** with easy removal
* **Promotional integration** ready for campaigns

**🇦🇪 UAE Market Specific**

**Currency & Pricing**

* **AED formatting** with proper localization
* **VAT calculations** at UAE standard rate (5%)
* **Price display** following local conventions

**Shopping Behavior**

* **Quantity in local units** (kg, pieces, bundles)
* **Discount sensitivity** with clear savings display
* **Delivery charges** with free delivery thresholds

**🔧 Integration Points**

These components work seamlessly with:

// Cart Hook Integration

const {

items,

totalAmount,

discount,

coupon,

addItem,

updateItem,

removeItem,

applyCoupon,

} = useCart();

// Navigation Integration

import {useNavigation} from '@react-navigation/native';

// Type Safety

import {CartItem, Cart, Coupon} from '@types/cart';

import {DeliverySlot} from '@types/delivery';

**📱 Advanced Features**

**CartItem Advanced**

* **Swipe to remove** gesture support ready
* **Bulk quantity updates** for wholesale purchases
* **Product substitution** suggestions when out of stock
* **Nutritional info** quick access

**CartSummary Advanced**

* **Dynamic delivery pricing** based on slot type
* **Multi-tier discount** calculations
* **Loyalty points** integration ready
* **Payment method** fee calculations

**CouponInput Advanced**

* **QR code scanning** for coupon redemption
* **Social sharing** of available coupons
* **Personalized offers** based on purchase history
* **Stack multiple coupons** with smart validation

**📦 File Structure Update**

Your app/components/cart/ directory now contains:

app/components/cart/

├── CartItem.tsx # ✅ NEW - Individual cart item with controls

├── CartSummary.tsx # ✅ NEW - Comprehensive order summary

└── CouponInput.tsx # ✅ NEW - Coupon application system

**🚀 Production Ready Features**

* **Error handling** with user-friendly messages
* **Loading states** for all async operations
* **Accessibility** with proper testIDs and labels
* **Performance optimization** with efficient re-renders
* **Type safety** with comprehensive TypeScript interfaces
* **Responsive design** that works on all device sizes

**💡 Smart Features**

**Intelligent Quantity Management**

* **Stock validation** prevents over-ordering
* **Unit conversion** for different product types
* **Bulk discounts** calculation ready
* **Freshness considerations** for perishable goods

**Dynamic Pricing**

* **Real-time discount** calculations
* **Delivery charge optimization** based on order value
* **Tax calculations** with UAE compliance
* **Multi-currency support** framework ready

**User Experience**

* **Confirmation dialogs** for destructive actions
* **Visual feedback** for all state changes
* **Helpful error messages** with actionable suggestions
* **Smooth animations** ready for implementation

Your grocery delivery app now has a complete, professional cart management system! 🛒💚

Would you like me to help you implement any specific cart screens or integrate these components with your backend services?