---

config:

  layout: elk

  theme: default

---

**classDiagram**

**class** Account {

        +String AccountID

        +String Email

        +String Password

        +String Role

        +Date RegistrationDate

        +String AccountStatus

    }

**class** Customer {

        +String CustomerID

        +String AccountID

        +String FullName

        +String PhoneNumber

        +Date DateOfBirth

        +String Gender

        +Integer LoyaltyPoints

        +String ReferralCode

    }

**class** Admin {

        +String AdminID

        +String AccountID

        +String FullName

        +String Department

        +String Position

        +Date HireDate

    }

**class** Address {

        +String AddressID

        +String CustomerID

        +String RecipientName

        +String RecipientPhone

        +String StreetAddress

        +String District

        +String City

        +String PostalCode

        +String Country

        +Boolean IsDefault

    }

**class** Product {

        +String ProductID

        +String Name

        +String Description

        +String CategoryID

        +String Brand

        +Float BasePrice

        +Float DiscountPrice

        +String Material

        +Date CreatedDate

        +String Status

        +Float AverageRating

        +Integer ReviewCount

        +Boolean IsFeatured

    }

**class** ProductVariant {

        +String VariantID

        +String ProductID

        +String SKU

        +String Size

        +String Color

        +Float PriceAdjustment

        +String[] Images

        +String Status

    }

**class** Order {

        +String OrderID

        +String CustomerID

        +Date OrderDate

        +Float TotalAmount

        +String PaymentMethod

        +String PaymentStatus

        +String TransactionID

        +Date PaymentDate

        +String OrderStatus

        +String AddressID

        +Float ShippingFee

        +String CouponCode

        +String Notes

    }

**class** OrderItem {

        +String OrderItemID

        +String OrderID

        +String VariantID

        +Integer Quantity

        +Float UnitPrice

        +Float SubTotal

    }

**class** Cart {

        +String CartID

        +String CustomerID

        +Date UpdatedDate

        +Float TotalAmount

    }

**class** CartItem {

        +String CartItemID

        +String CartID

        +String VariantID

        +Integer Quantity

    }

**class** Wishlist {

        +String WishlistID

        +String CustomerID

        +Date CreatedDate

    }

**class** WishlistItem {

        +String WishlistItemID

        +String WishlistID

        +String ProductID

        +Date AddedDate

    }

**class** Coupon {

        +String CouponID

        +String Code

        +String Description

        +Float DiscountValue

        +String DiscountType

        +Date StartDate

        +Date EndDate

        +Integer MaxUses

        +Integer UsedCount

        +String Conditions

        +String Status

    }

**class** Review {

        +String ReviewID

        +String ProductID

        +String CustomerID

        +Integer Rating

        +String Comment

        +Date ReviewDate

        +String[] Images

        +String Status

    }

**class** ReviewResponse {

        +String ResponseID

        +String ReviewID

        +String AccountID

        +String ResponseContent

        +Date ResponseDate

        +String Status

    }

**class** Category {

        +String CategoryID

        +String Name

        +String ParentCategoryID

        +String Description

        +String Image

    }

**class** Inventory {

        +String InventoryID

        +String VariantID

        +Integer Quantity

        +Integer ReservedQuantity

        +Date UpdatedDate

    }

**class** Shipping {

        +String ShippingID

        +String OrderID

        +String Carrier

        +String TrackingNumber

        +Float ShippingFee

        +Date EstimatedDeliveryDate

        +String ShippingStatus

    }

    Account "1" **--** "0..1" Customer : links to

    Account "1" **--** "0..1" Admin : links to

    Admin "1" **--** "\*" ReviewResponse : writes

    Customer "1" **--** "\*" Address : has

    Customer "1" **--** "\*" Order : places

    Customer "1" **--** "1" Cart : owns

    Customer "1" **--** "\*" Review : writes

    Customer "1" **--** "1" Wishlist : has

    Order "1" **--** "\*" OrderItem : contains

    Order "1" **--** "1" Address : ships to

    Order "1" **--** "1" Shipping : has

    Order "1" **--** "0..1" Coupon : uses

    Cart "1" **--** "\*" CartItem : contains

    Wishlist "1" **--** "\*" WishlistItem : contains

    Product "1" **--** "\*" ProductVariant : has variants

    Product "1" **--** "\*" Review : receives

    Product "1" **--** "\*" WishlistItem : added to

    ProductVariant "1" **--** "\*" OrderItem : included in

    ProductVariant "1" **--** "\*" CartItem : added to

    ProductVariant "1" **--** "1" Inventory : tracked in

    Category "1" **--** "\*" Product : contains

    Category "1" **--** "\*" Category : parent/child

    Review "1" **--** "0..1" ReviewResponse : gets

A diagram of a company

AI-generated content may be incorrect.