
| Salable Product |

| - name: String |

| - description: String |

| - price: double |

| - quantity: int |

| + getName(): String |

| + getDescription(): String |

| + getPrice(): double |

| + getQuantity(): int |

| + setName(name: String): void |

| + setDescription(desc: String): void |

| + setPrice(price: double): void |

| + setQuantity(quantity: int): void |

Based on the requirements, the Salable Product should have attributes such as Name, Description, Price, and Quantity.

| Store Front |

| - inventoryManager: InventoryManager |

| - shoppingCart: ShoppingCart |

| + StoreFront(inventoryManager: InventoryManager) |

| + initializeStore(): void |

| + purchaseProduct(product: SalableProduct): void |

| + cancelPurchase(product: SalableProduct): void |

The Store Front should support initializing the state of the Store, purchasing a Salable Product, and canceling the purchase of a Salable Product.

The Store Front class has a composition relationship with the Inventory Manager and Shopping Cart classes. It has methods to initialize the store, purchase a Salable Product, and cancel a purchase.

| Inventory Manager |

| - products: List<SalableProduct>|

| + addProduct(product: SalableProduct): void |

| + removeProduct(product: SalableProduct): void |

| + getProduct(name: String): SalableProduct |

| + getAllProducts(): List<SalableProduct> |

The Inventory Manager is responsible for managing the inventory of Salable Products

The Inventory Manager class has a list of Salable Products and provides methods to add, remove, and retrieve products from the inventory.

| Shopping Cart |

| - items: List<SalableProduct> |

| + addItem(product: SalableProduct): void |

| + removeItem(product: SalableProduct): void |

| + getItems(): List<SalableProduct> |

| + clearCart(): void |

The Shopping Cart is responsible for managing the selected products for purchase.

The Shopping Cart class has a list of selected Salable Products and provides methods to add, remove, retrieve items, and clear the cart.