**Operation Design (Parameters and Exceptions)**

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| **Operation** | **Parameters** | **Exceptions** |
| placeOrder | orderDetails: OrderDetails | InvalidOrderException |
| validateOrder | order: Order | InvalidOrderException |
| calculateTotal | order: Order | CalculationException |
| confirmOrder | order: Order | OrderConfirmationException |
| createPayment | paymentDetails: PaymentDetails | PaymentCreationException |
| processPayment | payment: Payment | PaymentProcessingException |
| validatePayment | payment: Payment | PaymentValidationException |
| updateInventory | order: Order | InventoryUpdateException |
| checkStock | productId: String, quantity: int | StockCheckException |
| reserveStock | productId: String, quantity: int | StockReservationException |
| generateReceipt | order: Order | ReceiptGenerationException |
| notifyCustomer | customerId: String, message: String | NotificationException |
| sendOrderStatus | orderId: String, status: String | NotificationException |