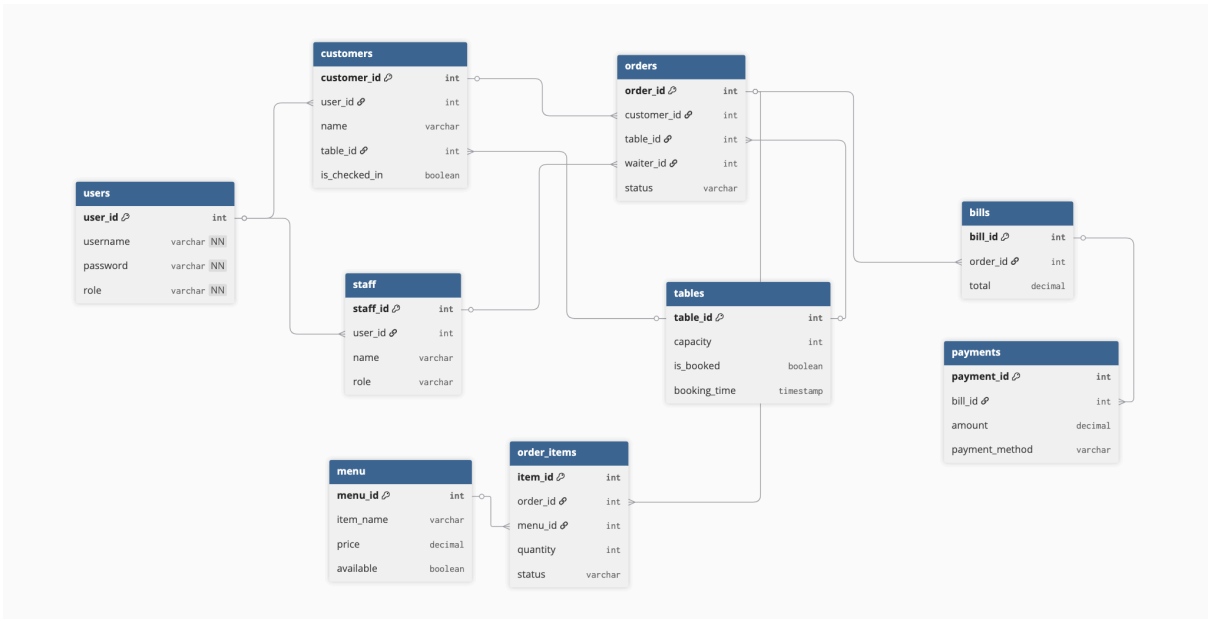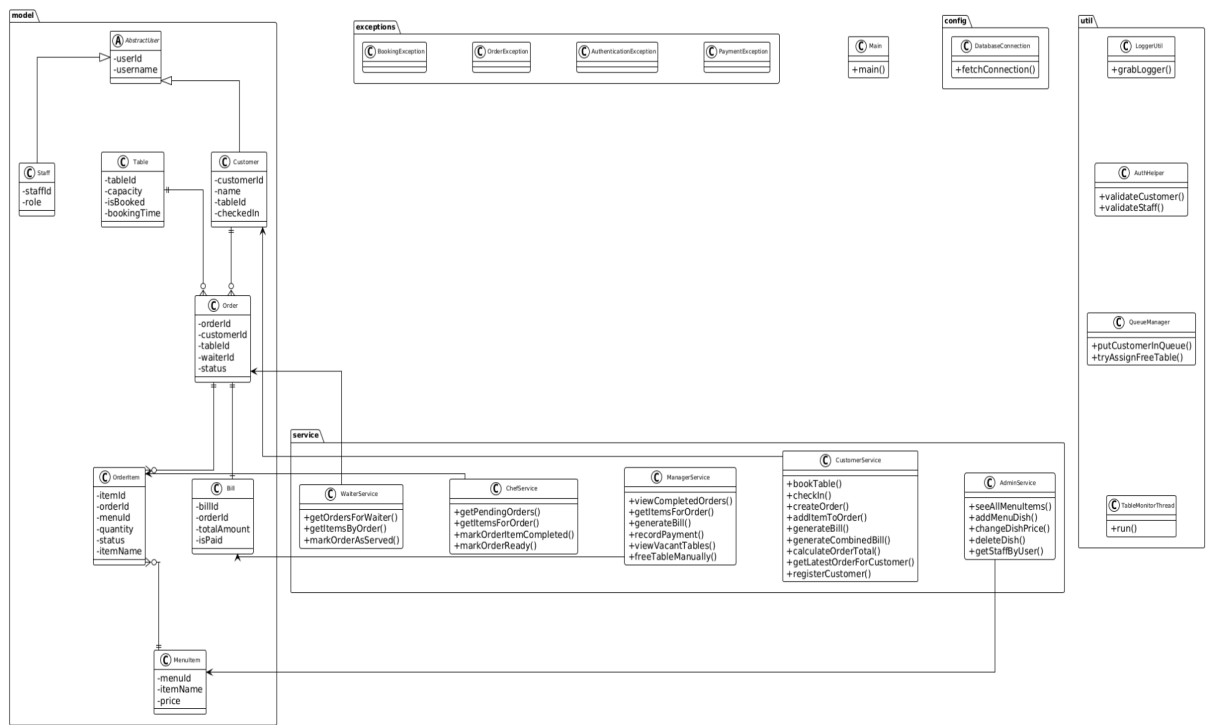# ER Diagram

Class Diagram

Sequence Diagrams

Order Creation

Customer → CustomerService: createOrder()
CustomerService → OrderDAO: insertOrder()
OrderDAO → PostgreSQL DB: INSERT INTO orders
PostgreSQL DB ⇠ OrderDAO: orderId
OrderDAO ⇠ CustomerService: orderId

Add Items to Order

Customer → CustomerService: addItemToOrder()
CustomerService → OrderItemDAO: insertOrderItem(orderId, menuId, qty)
OrderItemDAO → PostgreSQL DB: INSERT INTO order_items
PostgreSQL DB ⇠ OrderItemDAO: success
OrderItemDAO ⇠ CustomerService: confirmation

Generate Bill

Customer → CustomerService: generateBill(orderId)
CustomerService → BillDAO: generateBill(orderId, total)
BillDAO → PostgreSQL DB: INSERT INTO bills
PostgreSQL DB ⇠ BillDAO: billId
BillDAO ⇠ CustomerService: billId
CustomerService ⇠ Customer: Bill generated (billId, total)

Customer | CustomerService | OrderDAO | OrderItemDAO | BillDAO | PostgreSQL DB