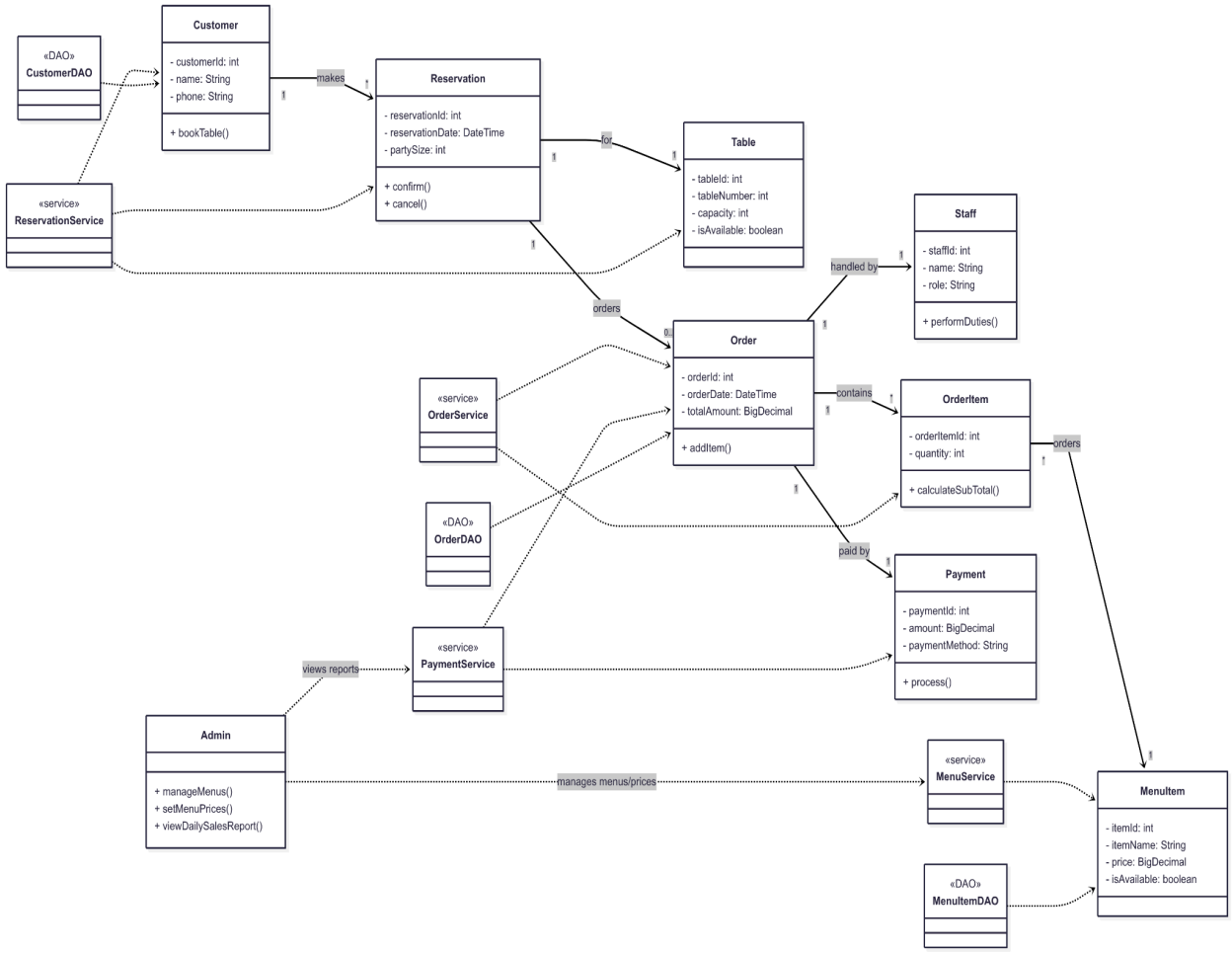
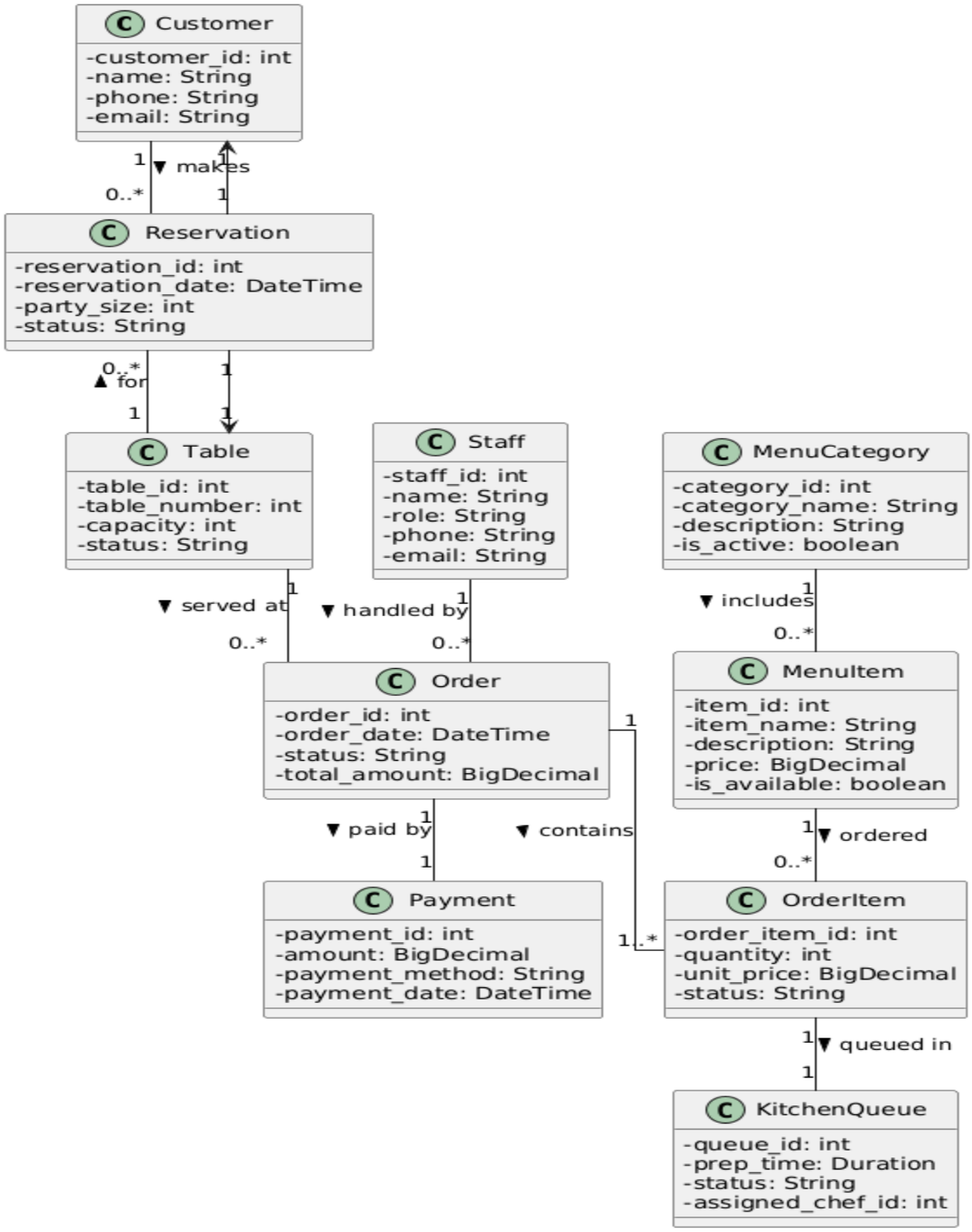
Restaurant Management System

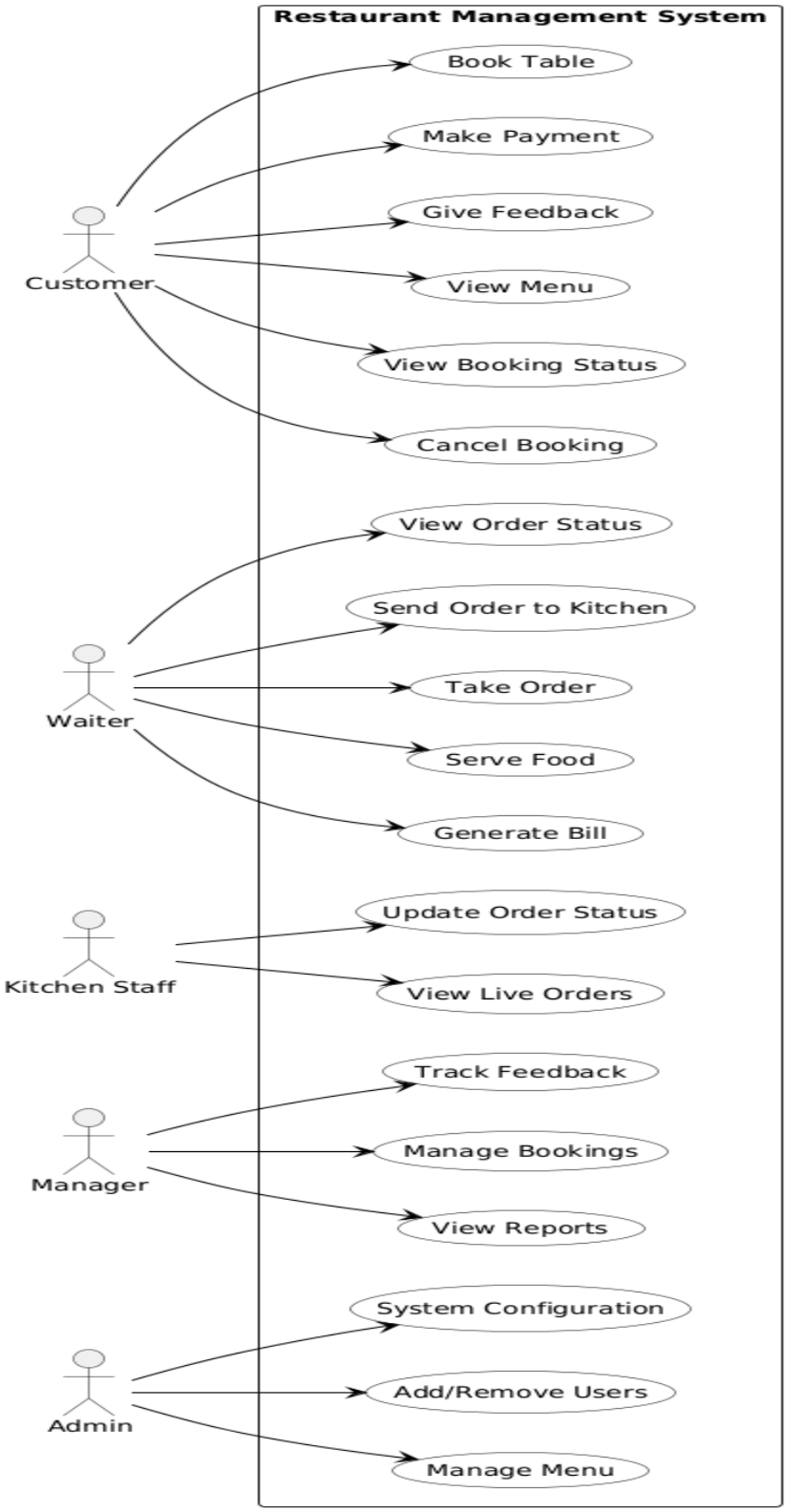
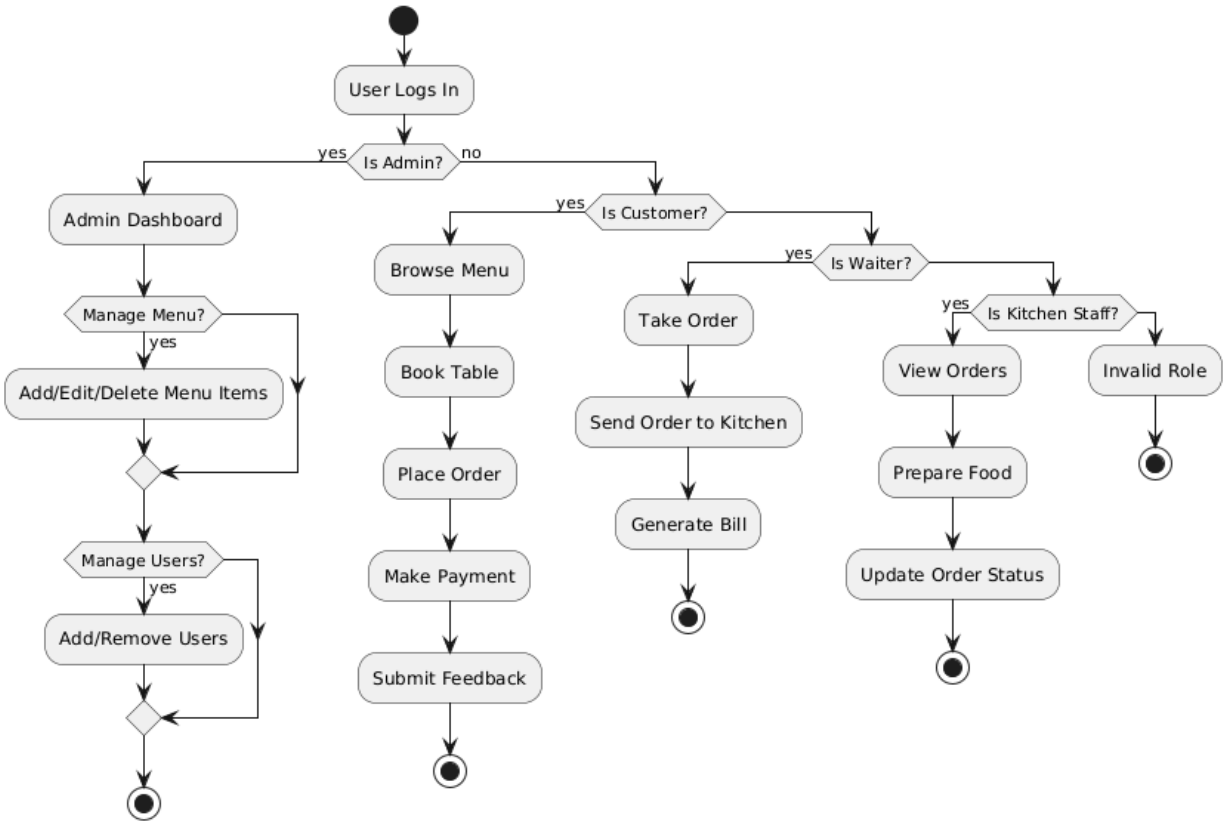
Class Diagram:



E-R Diagram:


Customer
-customer_id: int
-name: String
-phone: String
-email: String
1
makes
0..*
1
Reservation
-reservation_id: int
-reservation_date: DateTime
-party_size: int
-status: String
0..*
for
1
1
1
Table
-table_id: int
-table_number: int
-capacity: int
-status: String
Staff
-staff_id: int
-name: String
-role: String
-phone: String
-email: String
MenuCategory
-category_id: int
-category_name: String
-description: String
-is_active: boolean
1
served at
0..*
1
handled by
0..*
1
includes
0..*
Order
-order_id: int
-order_date: DateTime
-status: String
-total_amount: BigDecimal
MenuItem
-item_id: int
-item_name: String
-description: String
-price: BigDecimal
-is_available: boolean
1
paid by
1
1
contains
1..*
1
ordered
0..*
Payment
-payment_id: int
-amount: BigDecimal
-payment_method: String
-payment_date: DateTime
OrderItem
-order_item_id: int
-quantity: int
-unit_price: BigDecimal
-status: String
1
queued in
1
KitchenQueue
-queue_id: int
-prep_time: Duration
-status: String
-assigned_chef_id: int

Use Case Diagram:



Sequence Diagram: