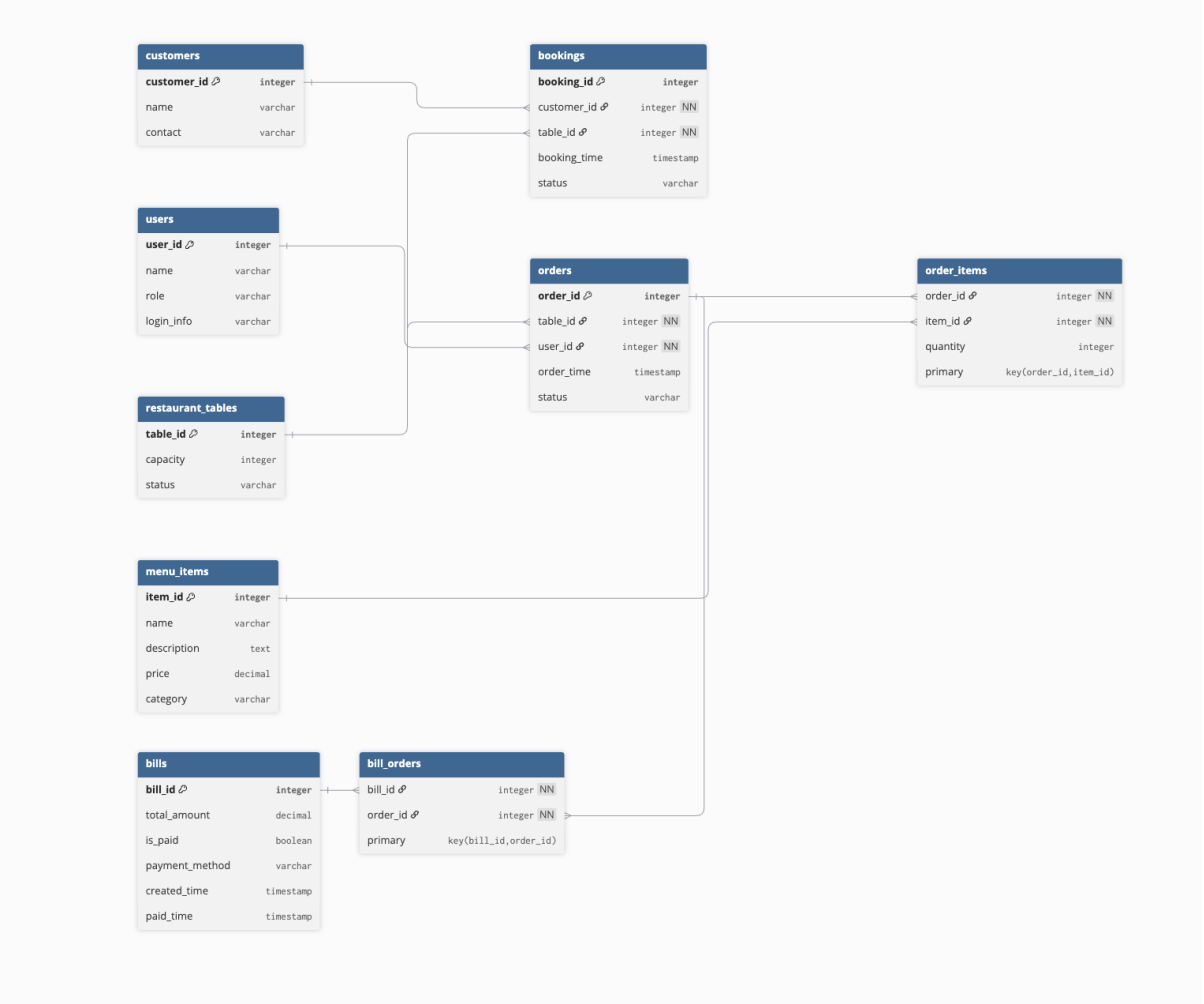
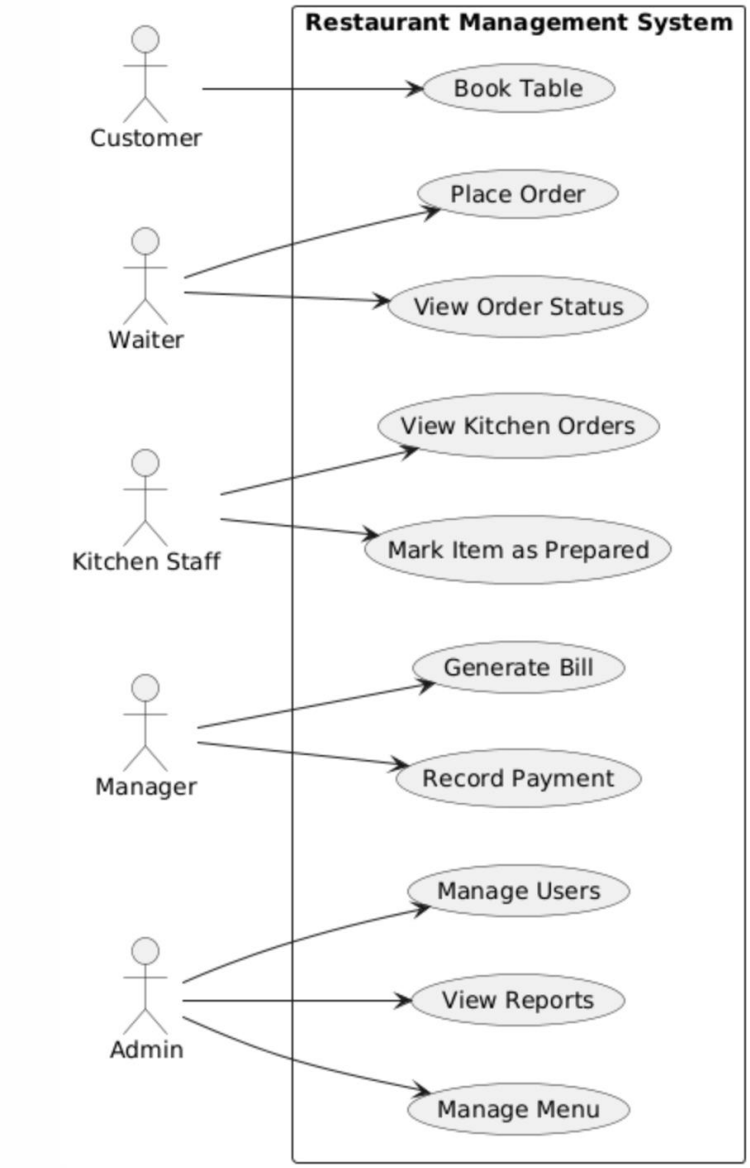
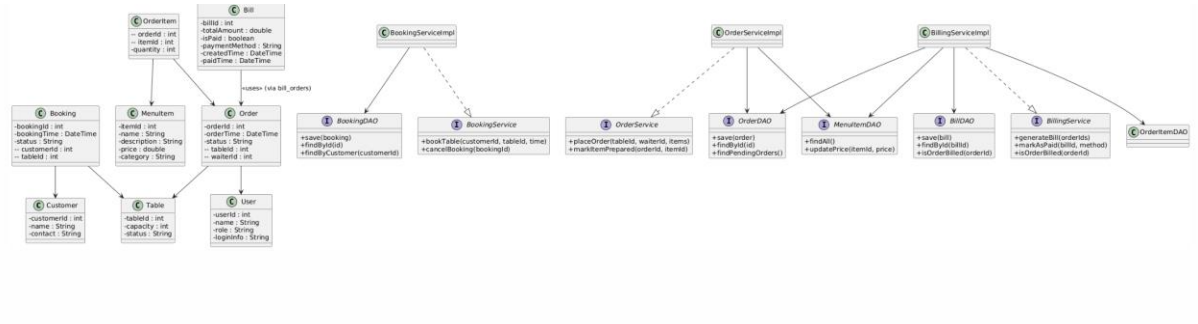
ER Diagram:


customers
customer_id integer
name varchar
contact varchar
bookings
booking_id integer
customer_id integer NN
table_id integer NN
booking_time timestamp
status varchar
users
user_id integer
name varchar
role varchar
login_info varchar
orders
order_id integer
table_id integer NN
user_id integer NN
order_time timestamp
status varchar
order_items
order_id integer NN
item_id integer NN
quantity integer
primary key(order_id,item_id)
restaurant_tables
table_id integer
capacity integer
status varchar
menu_items
item_id integer
name varchar
description text
price decimal
category varchar
bills
bill_id integer
total_amount decimal
is_paid boolean
payment_method varchar
created_time timestamp
paid_time timestamp
bill_orders
bill_id integer NN
order_id integer NN
primary key(bill_id,order_id)

Class Diagram:

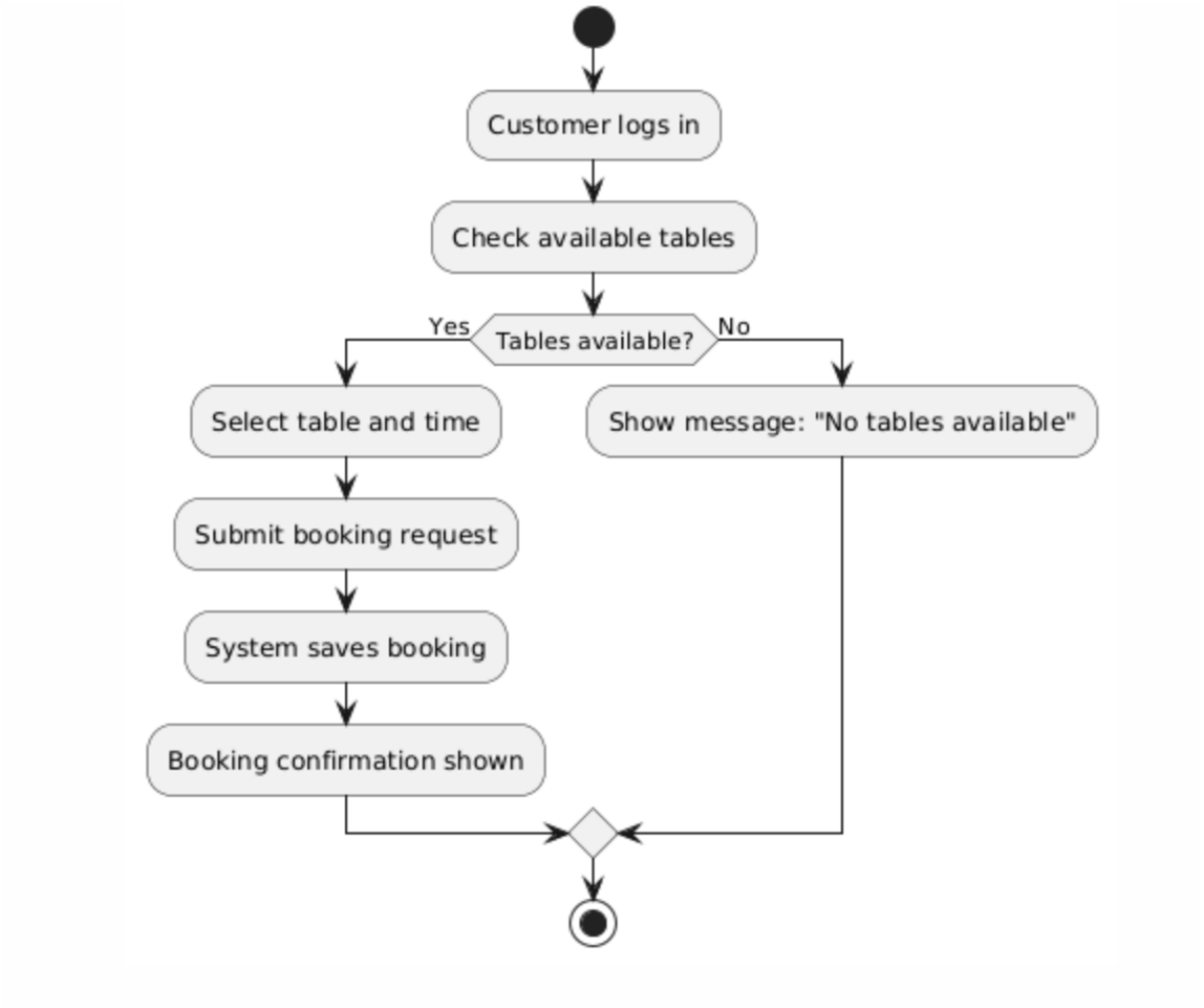


Use Case Diagram:

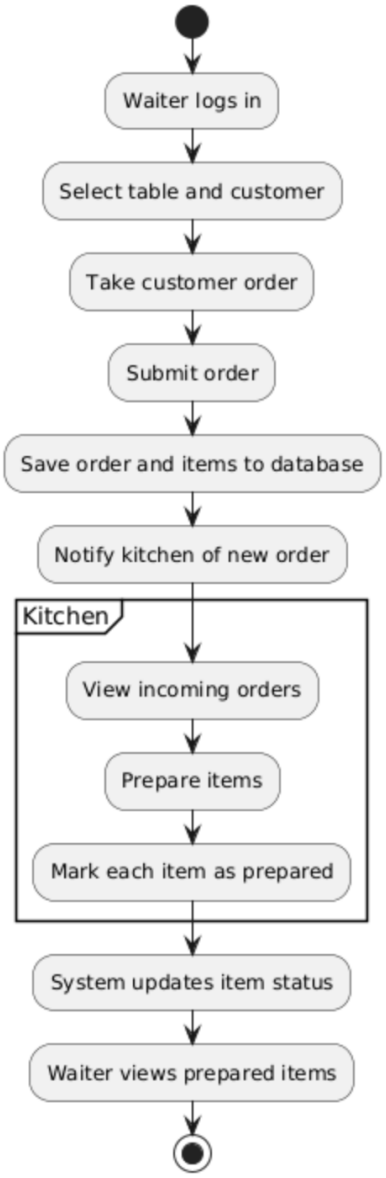
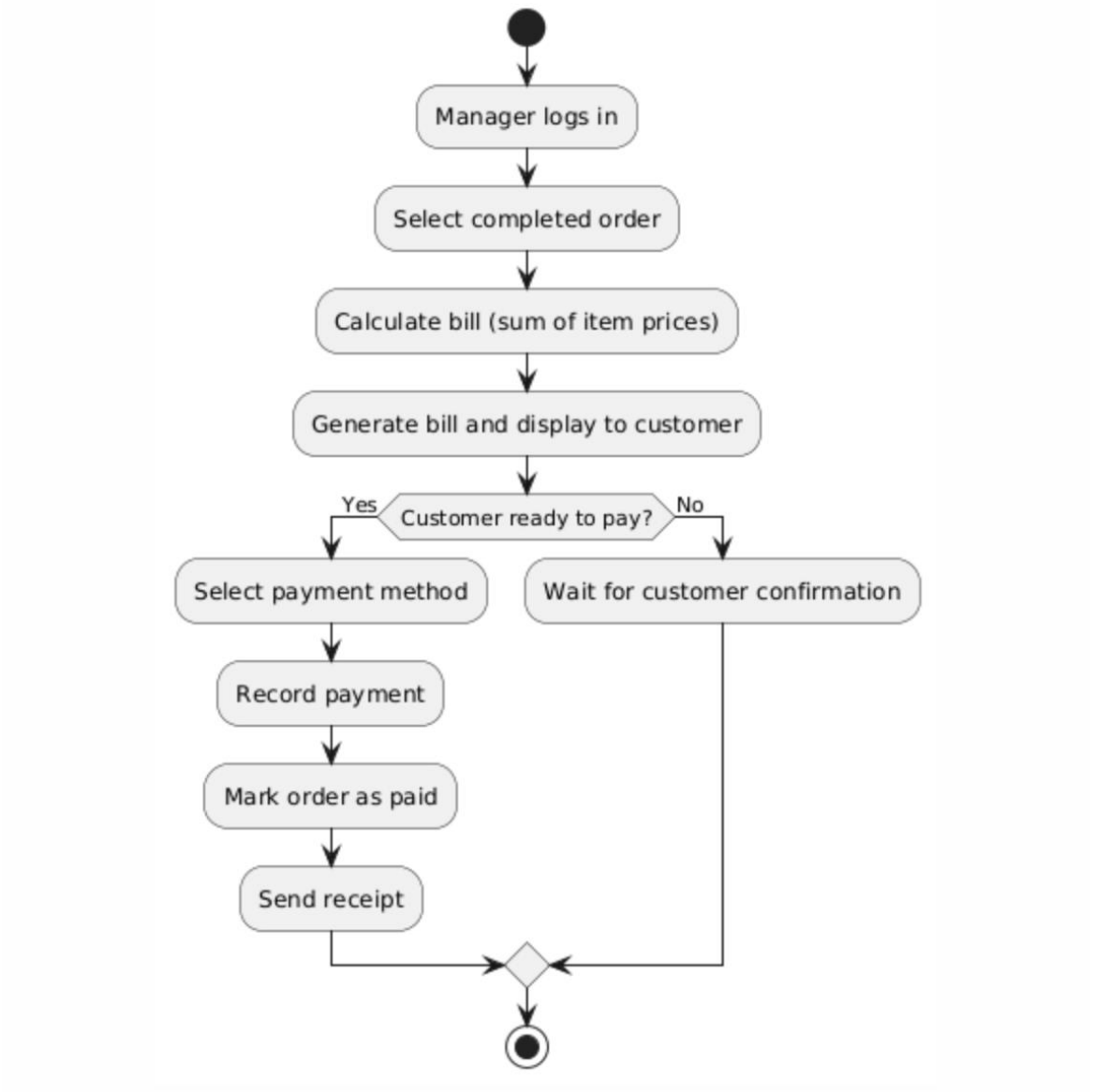


Activity Diagrams:

Table Booking flow:



Order Placement & Kitchen Notification:



Billing and Payment Process: