Hotel Management System

Submitting to:

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VIT-AP University
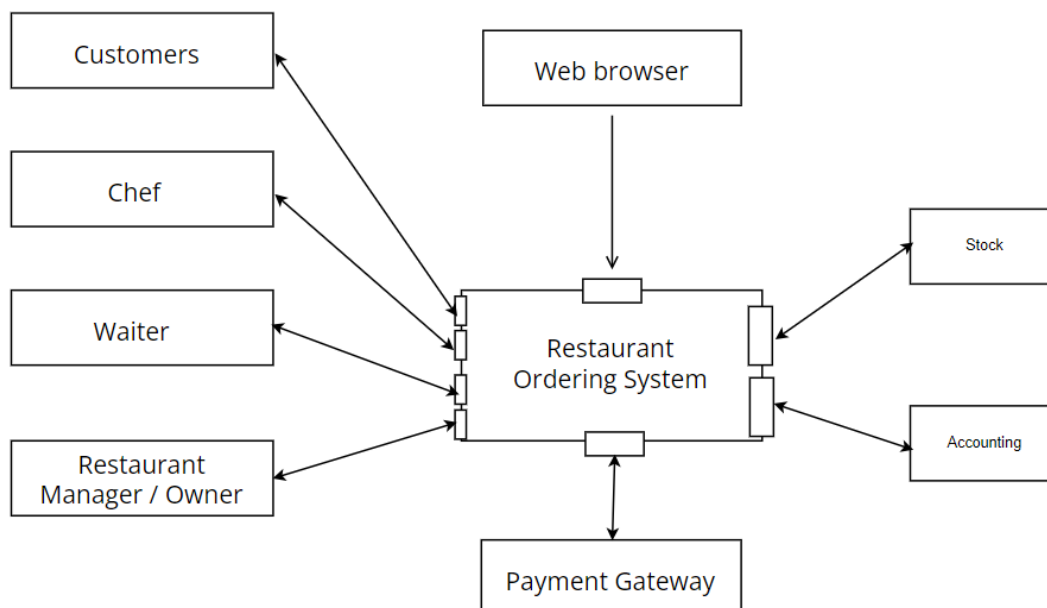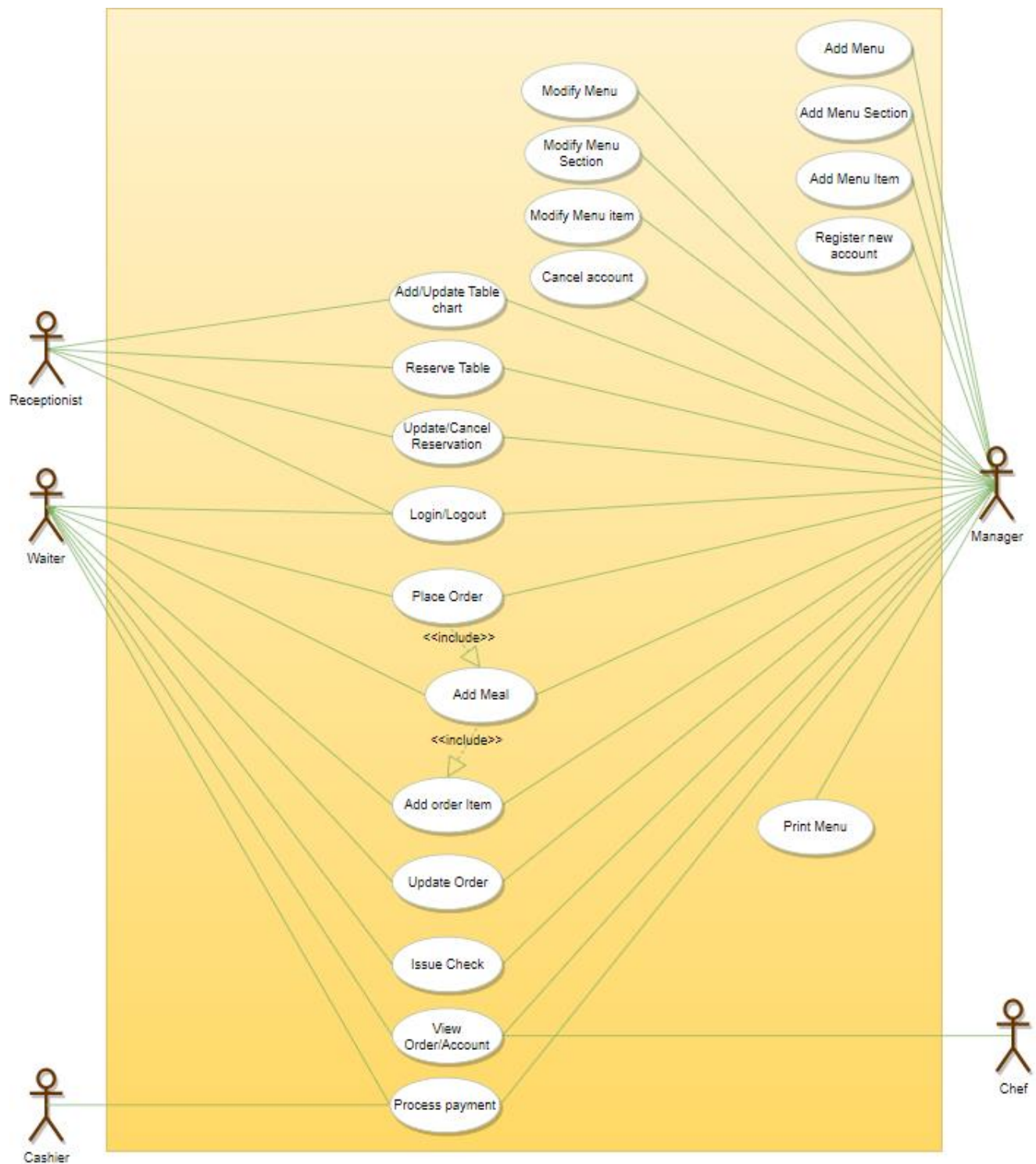
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Architecture:

Use-case Diagram:

Class Diagram:

<<enumeration>> SeatType
- Regular
- Kid
- Accessible
- Other

<<enumeration>> ReservationStatus
- Requested
- Pending
- Confirmed
- Checked-in
- Canceled
- Abandoned

<<enumeration>> PaymentStatus
- Unpaid
- Pending
- Completed
- Failed
- Declined
- Cancelled
- Abandoned
- Settling
- Settled
- Refunded

<<enumeration>> OrderStatus
- Received
- Preparing
- Complete
- Canceled
- None

<<enumeration>> TableStatus
- Free
- Reserved
- Occupied
- Other

<<enumeration>> AccountStatus
- Active
- Closed
- Canceled
- Blacklisted

<<dataType>> Address
- streetAddress: string
- city: string
- state: string
- zipcode: string
- country: string

Restaurant
- name: string
- addBranch(): bool

Person
- name: string
- email: string
- phone: string

Account
- id: string
- password: string
- address: Address
- status: AccountStatus
- resetPassword(): bool

Branch
- name: string
- location: Address
- addTableChart(): bool

Kitchen
- name: string
- assignChef(): bool

Employee
- employeeID: int
- dateJoined: date

TableChart
- tableChartID: int
- tableChartImage: blob
- print(): bool

Chef
- takeOrder(): bool

Waiter
- createOrder(): bool

Receptionist
- createReservation(): bool

Manager
- addEmployee(): bool

Customer
- lastVisited: date

Check/Bill
- checkID: int
- amount: double
- tip: double
- tax: double
- isPaid: bool
- createBill(): bool

Order
- orderID: int
- status: OrderStatus
- addMeal(): bool
- removeMeal(): bool
- setStatus(): OrderStatus

Table
- tableID: int
- status: TableStatus
- maxCapacity: int
- locationIdentfier: int
- addReservation(): bool

Reservation
- reservationID: int
- timeOfReservetion: datetime
- peopleCount: int
- status: ReservationStatus
- notes: string
- checkinTime: date
- customer: Customer
- updatePeopleCount(): bool

Payment
- paymentID: int
- amount: double
- creationDate: date
- initiateTransaction(): bool

Meal
- mealID: int
- addMealItem(): bool

TableSeat
- tableSeatNumber: int
- type: SeatType
- updateSeatType(): bool

Notification
- notificationId: int
- createdOn: date
- content: string
- send(): bool

CreditCardTransaction
- nameOnCard: string

CheckTransaction
- bankName: string
- checkNumber: string

CashTransaction
- cashTendered: double

MenuItem
- menuItemID: int
- title: string
- description: string
- price: double
- updatePrice(): bool

MealItem
- mealItemID: int
- quantity: int
- updateQuantity(): bool

PostalNotification
- phone: string

EmailNotification
- email: string

Menu
- menuID: int
- title: string
- description: string
- addMenuSection(): bool

MenuSection
- menuSectionID: int
- title: string
- description: string
- addMenuItem(): bool

Relationships / labels:
- works at
- works in
- Extends
- prepares
- takes
- creates
- for
- against a
- 1, *, 0..1 (multiplicities)