HOTEL MANAGEMENT SYSTEM
correctness of the diagrams depends on the problem statement she gives so copy mindfully!

Termwork 1:

Ambiguities:

How will the system handle room availability and reservations during peak periods?

How will the system handle cancellations and refunds?

How will the system handle different types of rooms and their amenities?

Inconsistencies:

There are inconsistencies in the pricing of rooms and services between different platforms.

There are inconsistencies in the availability of certain room types and amenities between different platforms.

There are inconsistencies in the check-in and check-out times between different platforms.

Incompleteness:

The system does not specify how it will handle room assignments and guest preferences.

The system does not specify the maximum and minimum duration of stay for guests.

The system does not specify how it will handle requests for late check-out or early check-in.

Functional Requirements:

The system should allow guests to make room reservations.

The system should allow guests to check-in and check-out of their rooms.

The system should allow guests to order room service and other amenities.

The system should allow guests to make payments for their stay.

The system should allow staff to manage room availability and reservations.

The system should allow staff to manage housekeeping and maintenance tasks.

Non-functional Requirements:

The system should be available 24/7.

The system should be scalable to handle high volumes of room reservations and guest requests.
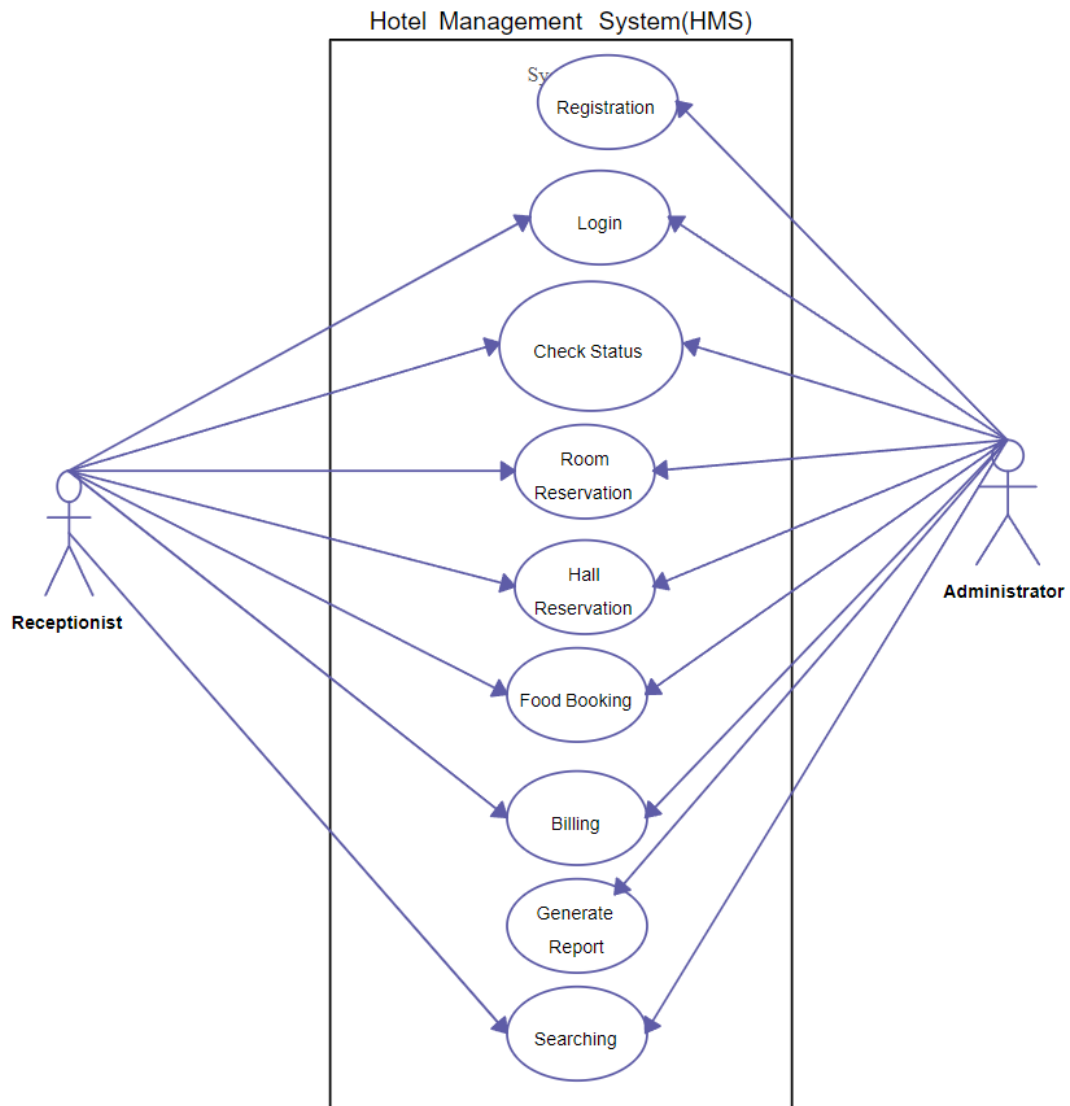
The system should be secure and protect guest data and financial transactions.

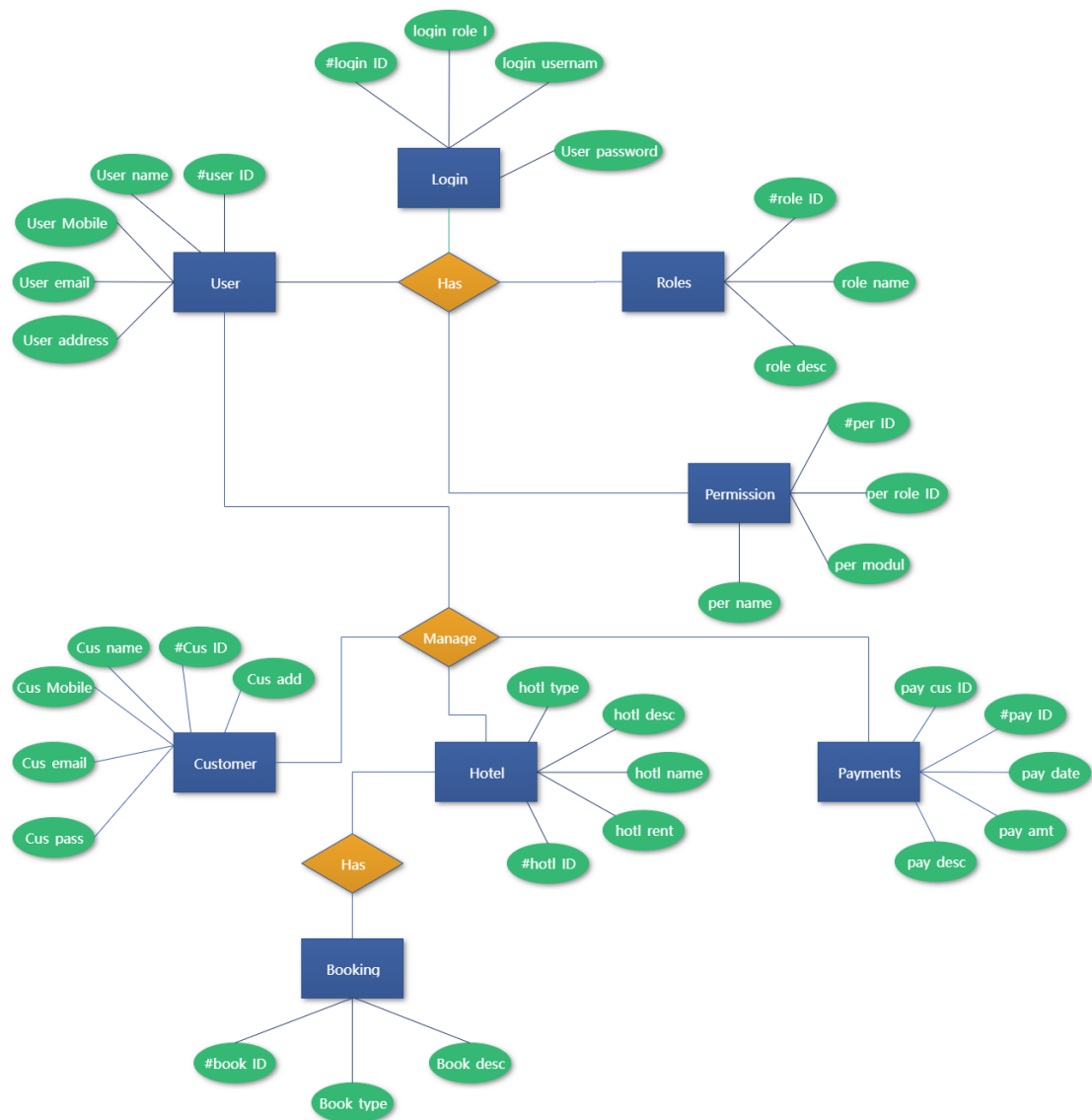The system should provide fast response times and minimize page loading times.

The system should be user-friendly and easy to navigate.

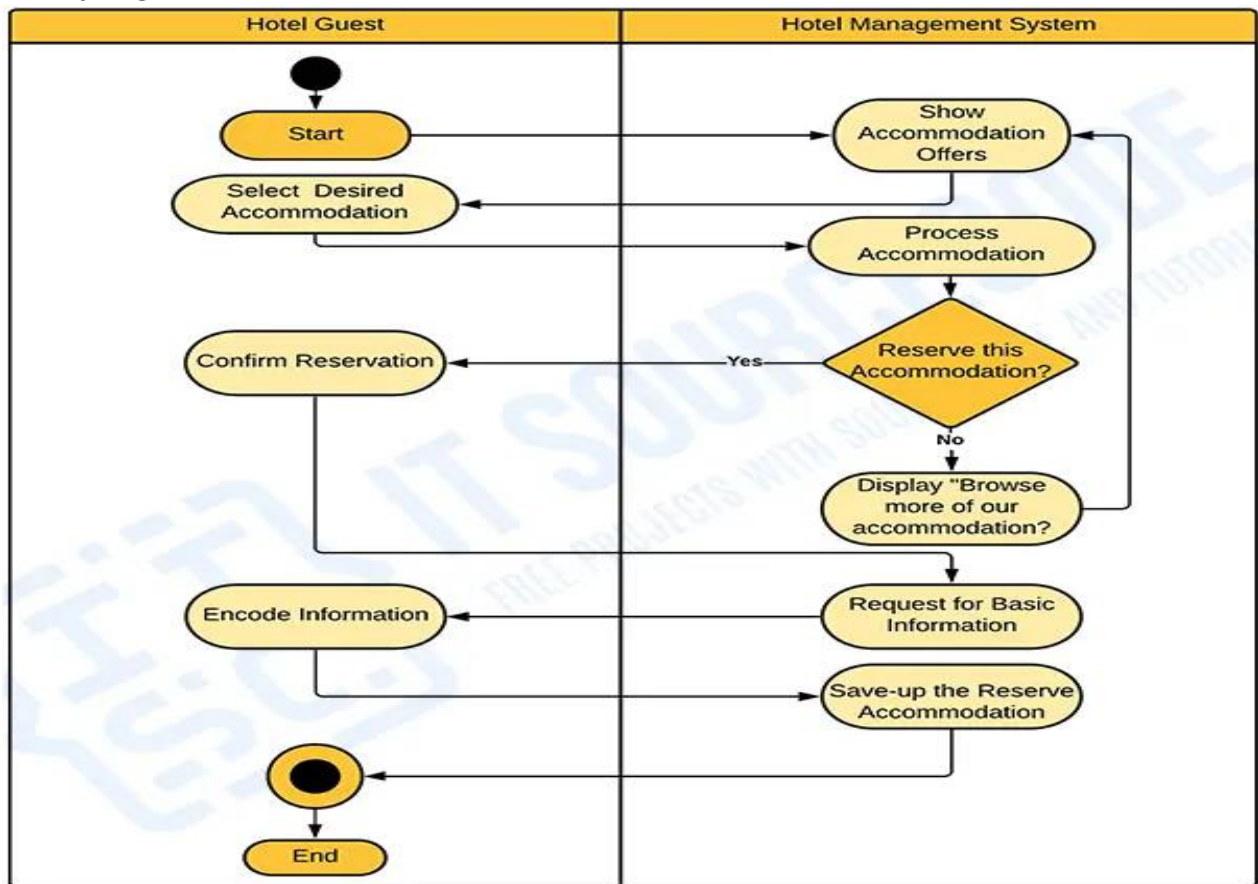The system should provide multi-language support for guests from different regions
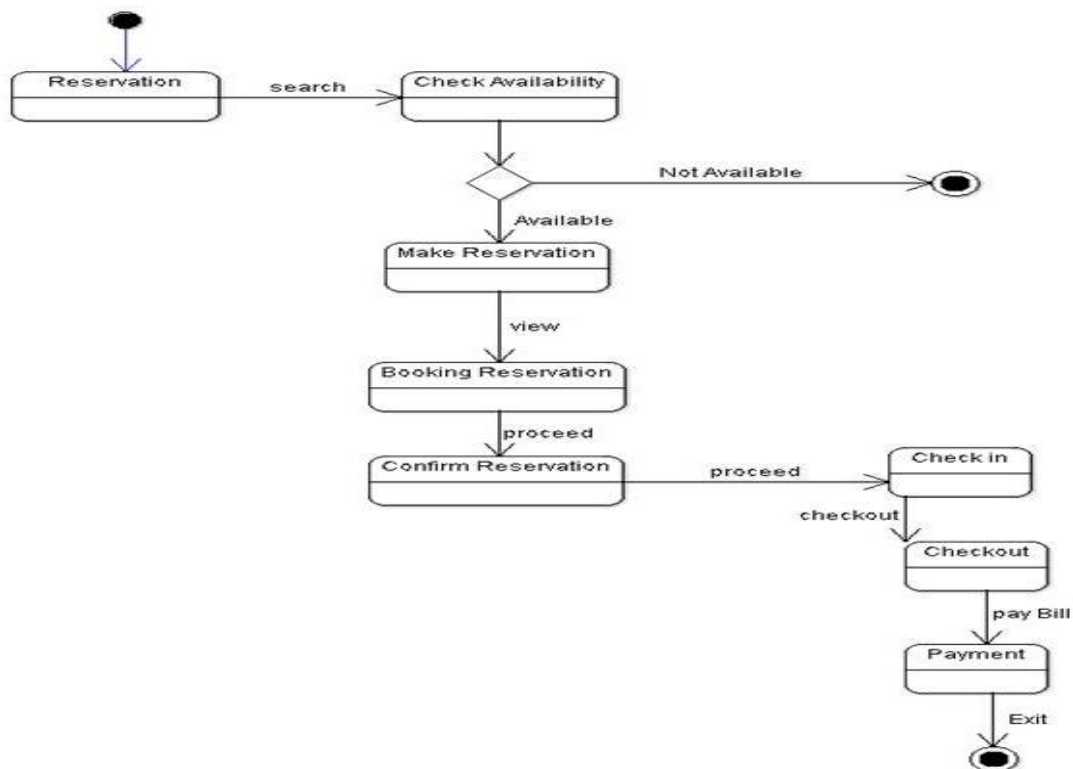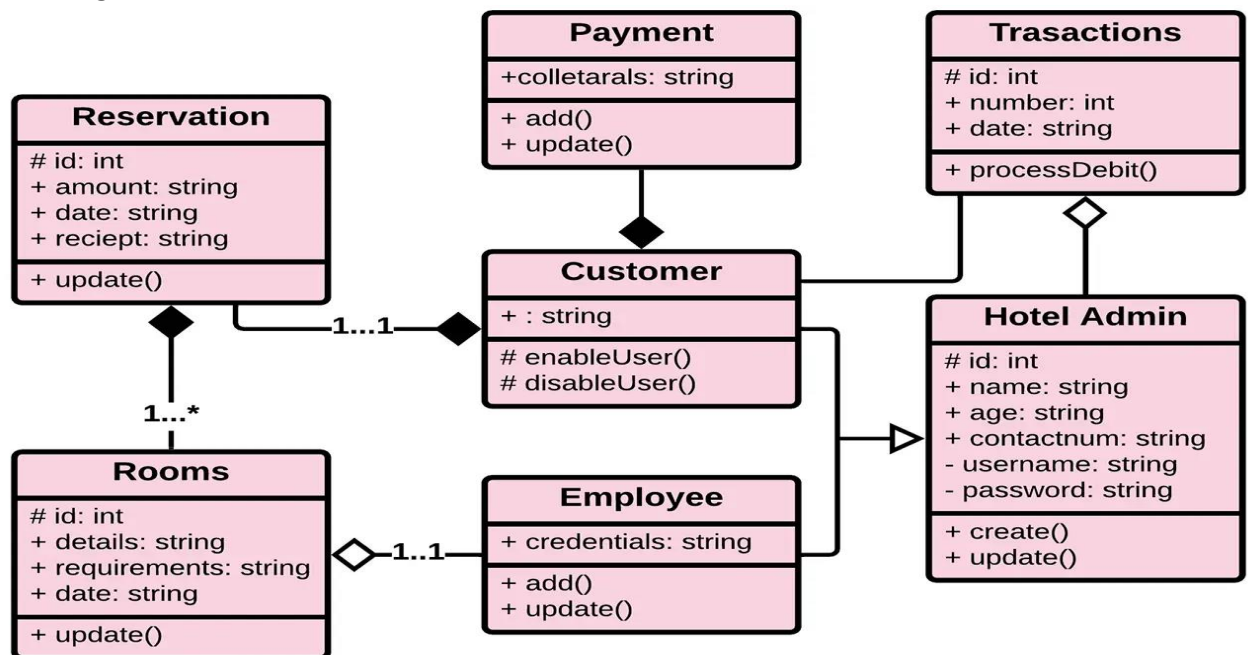
Termwork 2:

Hotel Management System(HMS)

Termwork 3:

ER Diagram containing the following entities and relationships:

Login entity with attributes: login role I, #login ID, login usernam, User password

User entity with attributes: User name, #user ID, User Mobile, User email, User address

Roles entity with attributes: #role ID, role name, role desc

Permission entity with attributes: #per ID, per role ID, per modul, per name

Customer entity with attributes: Cus name, #Cus ID, Cus add, Cus Mobile, Cus email, Cus pass

Hotel entity with attributes: hotl type, hotl desc, hotl name, hotl rent, #hotl ID

Payments entity with attributes: pay cus ID, #pay ID, pay date, pay amt, pay desc

Booking entity with attributes: #book ID, Book type, Book desc

Relationships: Has (between User and Roles, via Login), Manage, Has (between Customer/Hotel and Booking)

Termwork 5:
activity diagram:

state diagram:

Termwork 6:
class diagram:

sequence diagram:

Termwork 7:

Customer Management

Hotel Management

Booking Management

Hotel Room Booking System

Room Category Management

System User Management

Login Management

Zero Level DFD - Hotel Room Booking System