

# Online Reservation and Management System

**Course Name** : Database System Lab  
**Course Code** : CSE334  
**Submission Date** : 27 Aug, 2023

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## OUR PROPOSAL

### Title

Online Reservation and Management System for a Multi-Facility Hotel.

### Goal

The goal of the proposed Online Reservation and Management System is to create an efficient and user-friendly platform that automates the process of reserving and managing various facilities in a multi-facility hotel. The system aims to provide real-time facility availability information, enable online bookings, and enhance customer satisfaction through improved convenience and accuracy.

## **Users and Roles:**

1. **Guests/Customers:** They are the primary users of the system who visit the hotel's website to check facility availability, make online reservations, and receive notifications regarding their bookings.
2. **Hotel Manager/Administrators:** They have administrative privileges and are responsible for managing reservations, updating facility availability, resolving conflicts, and overseeing the overall system functionality.

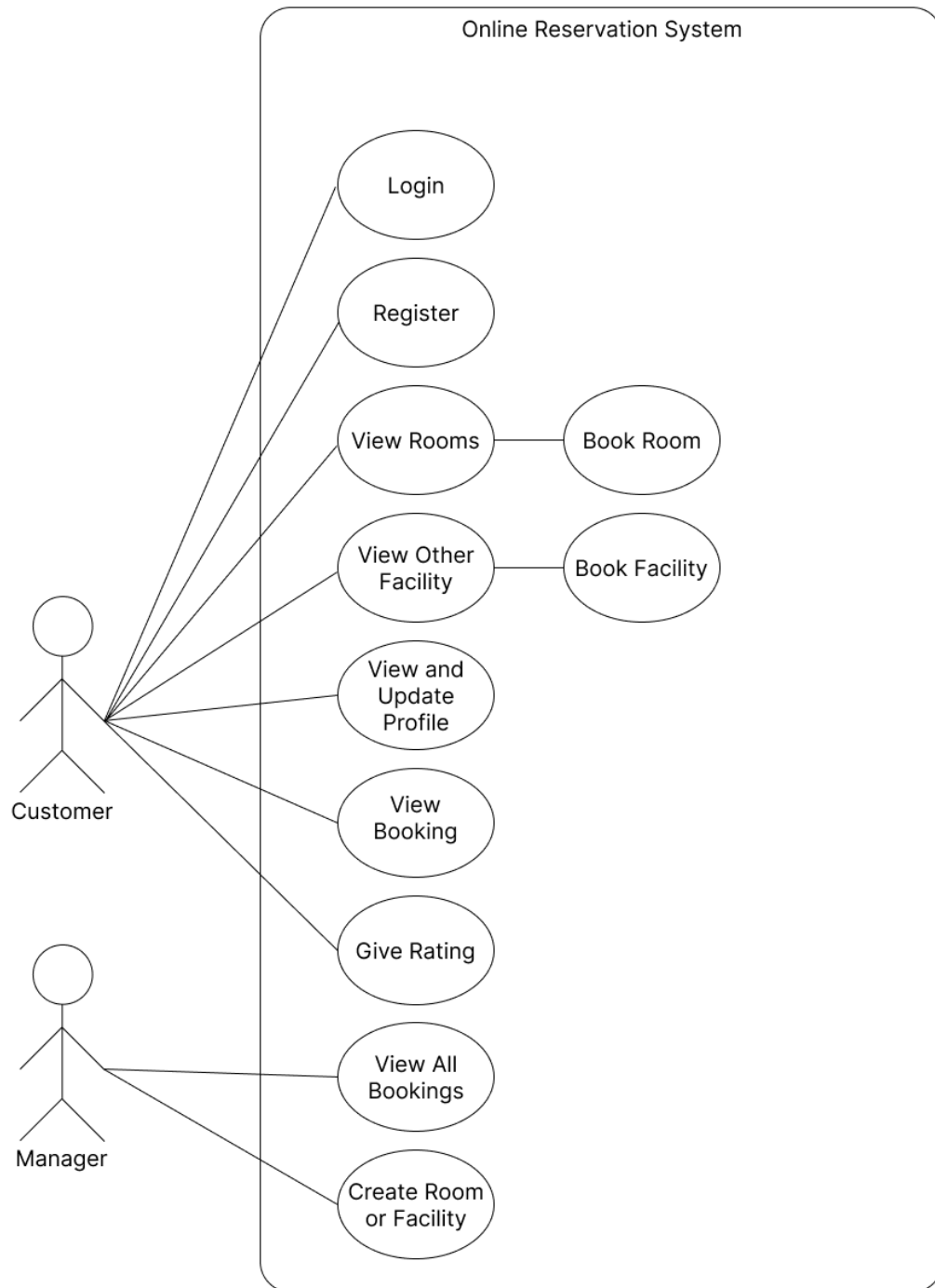
## **Functionality:**

1. **Facility Availability:** The system will display real-time information about the availability of hotel rooms, swimming pool slots, and indoor stadium timings.
2. **Online Booking:** Users can select their desired facility, specify the preferred date and time, and make online reservations through the website.
3. **User Authentication:** A secure login system will be implemented to authenticate users and safeguard their personal information.
4. **Payment Integration:** The system will support secure online payment methods to facilitate seamless transactions during the reservation process.
5. **Reservation Management:** Hotel staff will have access to an administrative interface to manage reservations, update facility availability, and address any conflicts or issues that may arise.

## **Platform and Technology Stack:**

- Frontend: React, Bootstrap
- Backend: NodeJS, Express JS
- Database: MySQL

## Use Case Diagram :



# ER Diagram

