

Movie Adda

➤ Background of Movie Adda:

One platform that unites all movie-goers is **Movie Adda**, a platform that offers a plethora of options when it comes to booking tickets. Booking tickets has become as easy as ABC courtesy of this Movie Adda. But turning into a successful venture isn't an overnight journey.

Movie Adda is aimed at developing a database driven online movie ticket booking system website for customers using Python and flask with the help of SQLite database. A functional testing part of the application is also developed as it is very important to make sure that the applications fulfil the acceptance criteria of the users. The test cases include various functionalities like user signup flow, sign in flow, movie search, ticket booking, seat management, purchase of ticket, movie ticket history view for users, ticket cancellation flow, login for admin, login for theatre owners, etc.

➤ Goals of Movie Adda:

- To Book ticket online: Customers may view the contents of any movie show at any time and may book any movie ticket as needed.
- To select desired seats: Customers can choose any seats that they want to book before the booking.
- To select desired theater: Customers can locate the nearest theater and book at their tickets.
- A customer can book any number of tickets:
There are no limitations to number of tickets a single user or customer is booking.
- To manage the details of Movie, Tickets, Customer, show timing, theaters etc.
- To build an application program to reduce the manual work for managing the movie, ticket, booking, customer.

➤ **Problem Statement:**

Watching movies with family and friends in theatres is one of the best medium of entertainment after having a hectic schedule. But all this excitement vanishes after standing in hours in long queues to get tickets booked.

The traditional way of booking the ticket for the movie is that a customer needs to go to the specific theatre where the desired movie was playing and need to stand in queue and buy the ticket for the movie. This became more difficult for a person in order to overcome this problem. Movie Adda gives real life understanding of online movie ticket booking system and activities performed by various roles in the supply chain.

➤ **Solution/Proposed System:**

Movie Adda provides complete information regarding currently running movies on all the screens with details of show timings, available seats. Ticket reservations are done using credit card and can be cancelled if needed. Movie Adda online tickets booking system is one of the best opportunities for those who cannot afford enough time to get their tickets reserved standing in long queues. People can book tickets online at any time of day or night. Movie Adda ticket booking system also provides option to cancel the tickets which are reserved previously.

➤ **Users of Movie Adda:**

- Customers:

Any user with an access to internet can use the website in order to Book/Reserve a cinema ticket for themselves in their respective chosen destination.

➤ Requirements of Movie Adda:

- Functional Requirements:

In software and system engineering, a functional requirement defines a function of a system or its components, where a function is described as a specification of behavior between outputs and inputs.

If a customer wants to book the ticket, then he/she must be registered, an unregistered user cannot book the ticket. Registration is the first step of booking the tickets for anyone.

There are many factors or functional requirements for buying or selling the movie tickets some of them are given below:

User Requirement

1. Registration

Every online booking needs to be associated with an account

2. Login

One account cannot be associated with multiple users

3. Search movie

4. Seat viewing

5. Payment

System should enable users to book / pay for their tickets only in a timeboxed manner after tickets being added to the cart.

6. Logout

7. Generate ticket

Booking confirmation should be sent to user to the specified contact details

8. Add movie

9. Search results should enable users to find the most recent and relevant booking options.

10. System should only allow users to move to payment only when mandatory fields such as date, time, location has been mentioned.

Theater Owner Requirement

1. Theater can be registered on this website

2. Theater owner can set his theater information and admin can verify and approve it accordingly.

3. Theater owner can view the collection of the theater.

Admin Requirement

1. Admin can add, update and delete a movie from any theater.
2. Admin can approve a theater after registration
3. Admin can view collection of theaters and movies.

● Non-Functional Requirements:

Non-functional requirement is a specification that describes the system's operation capabilities and constraints that enhance its functionality.

1. Use of captcha and encryption to avoid bots from booking tickets
2. Search results should populate within acceptable time limits
3. User should be helped appropriately to fill in the mandatory fields, in case of invalid input.
4. System should accept payments via different payment methods, like PayPal, wallets, cards, vouchers, etc.
5. System should visually confirm as well as send booking confirmation to the user's contact.
6. Security
7. Reliability
8. Availability
9. Maintainability
10. Portability
11. Accessibility
12. Back up
13. Performance
14. Accessibility
15. Supportability

Database Design

- User
- Theatre
- Movies
- Seat
- Payment
- collection

User table

User
User_ID
User_Name
Gender
Mail
DOB
Profile_Pic
Place
Password
type

Theatre table

Theatre
Theater_id
Owner_Name
Theater_Name
Place
Timings
Food
Number_of_screen

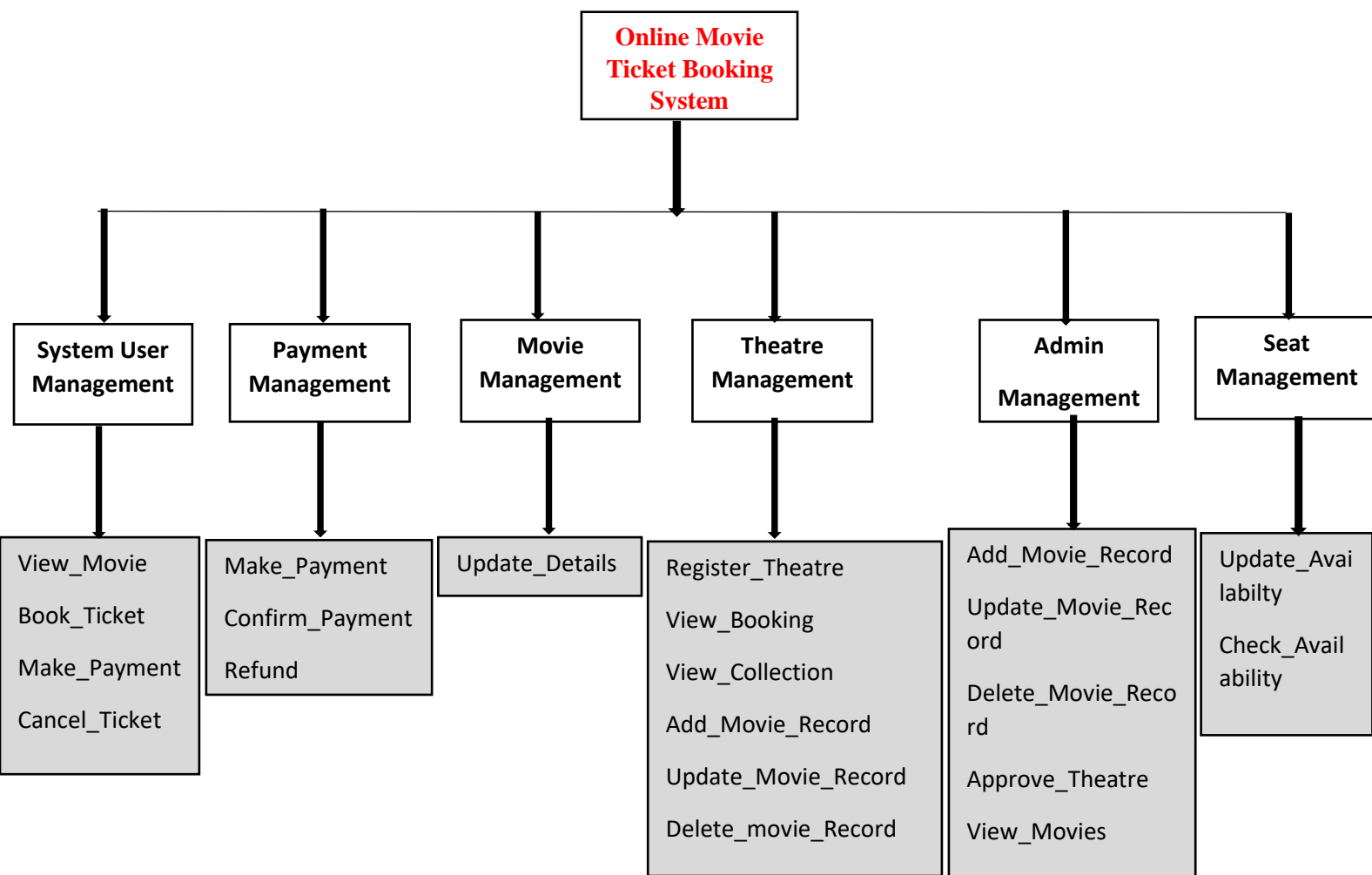
Movies table

Movies
Movie_name
Duration
Release_Date
Ratings
Languages_available
Genre
Images
Ticket cost

payment

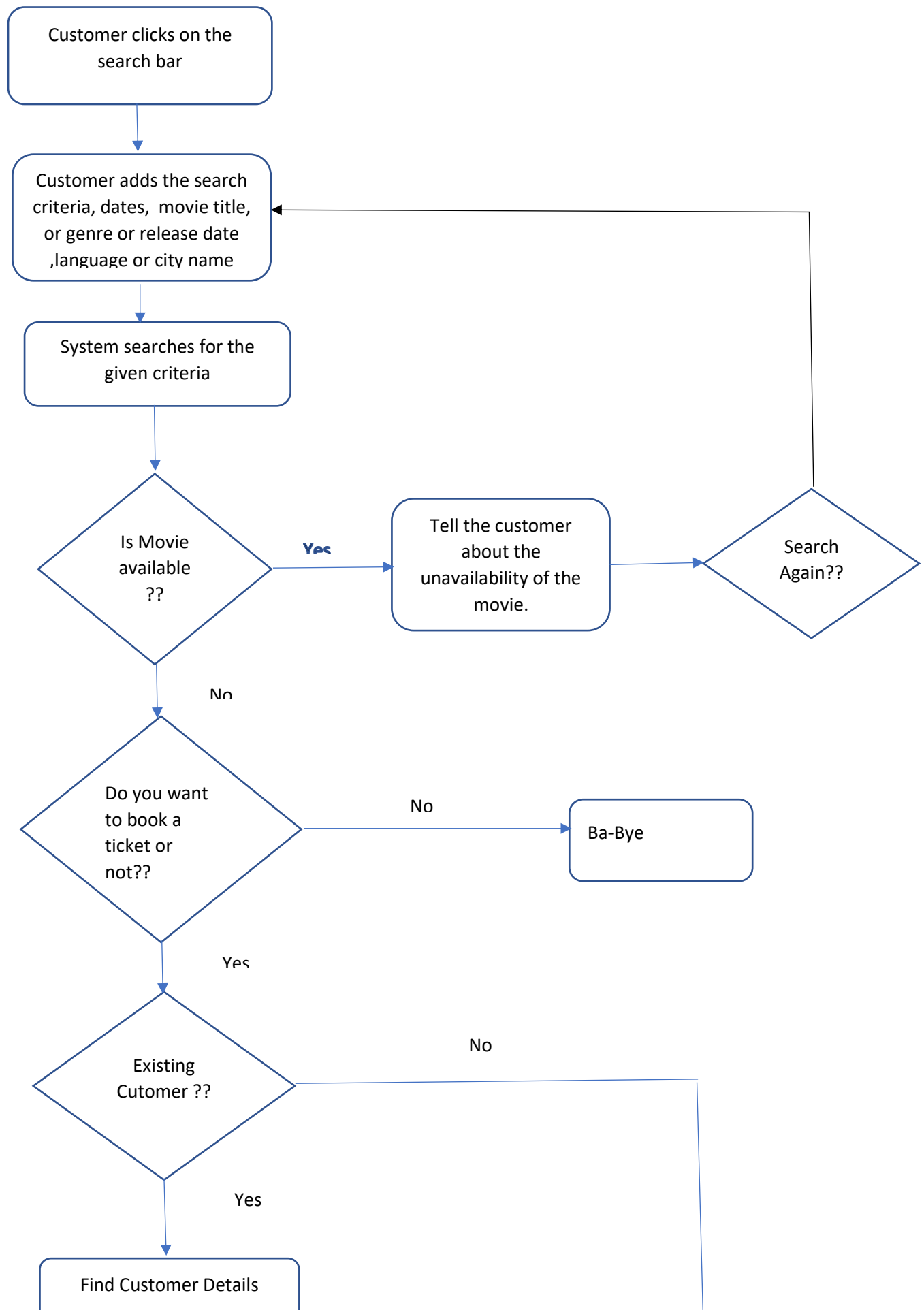
payment
Theater_name
Movie_Name
Ticket_cost

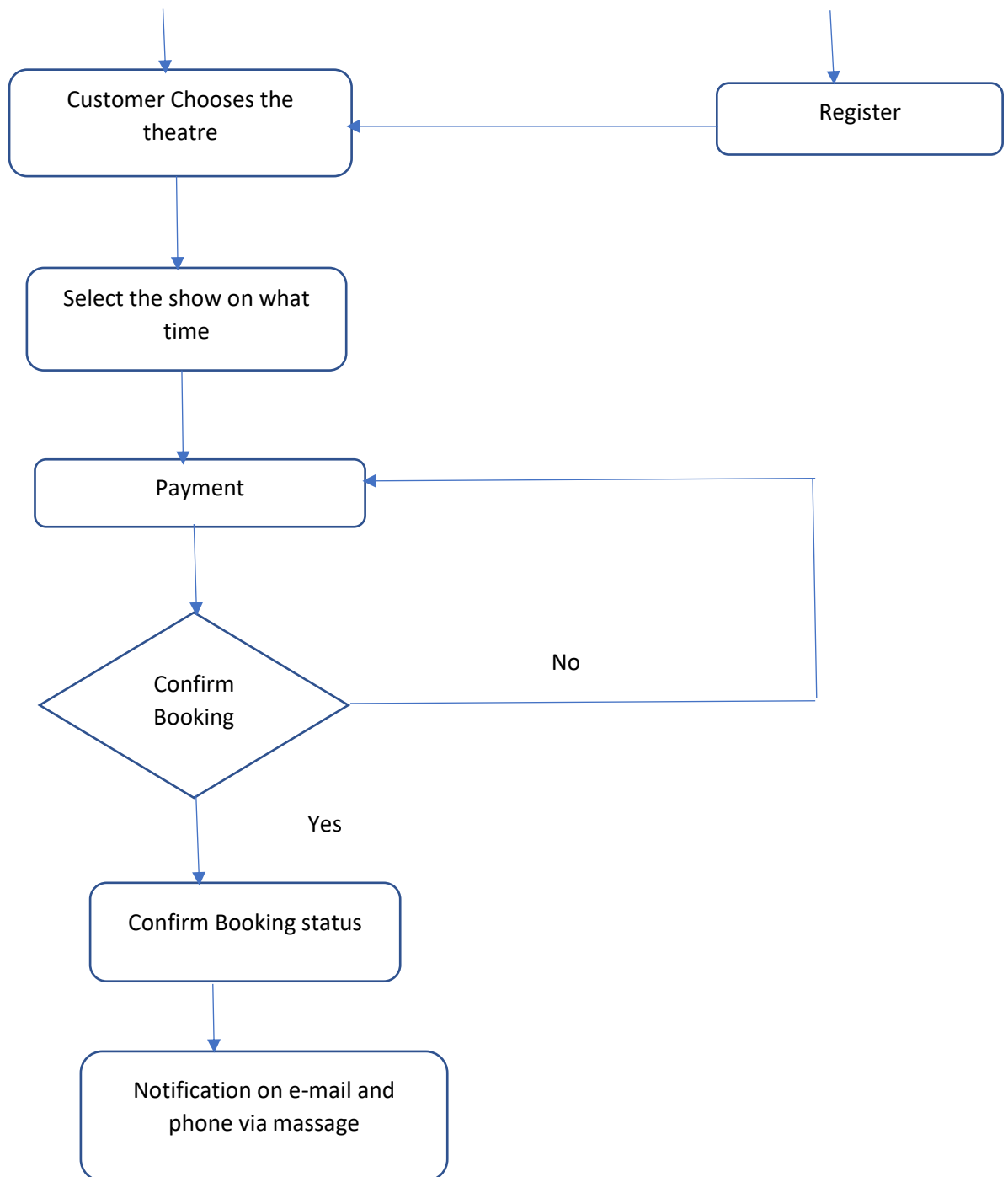
Architecture diagram



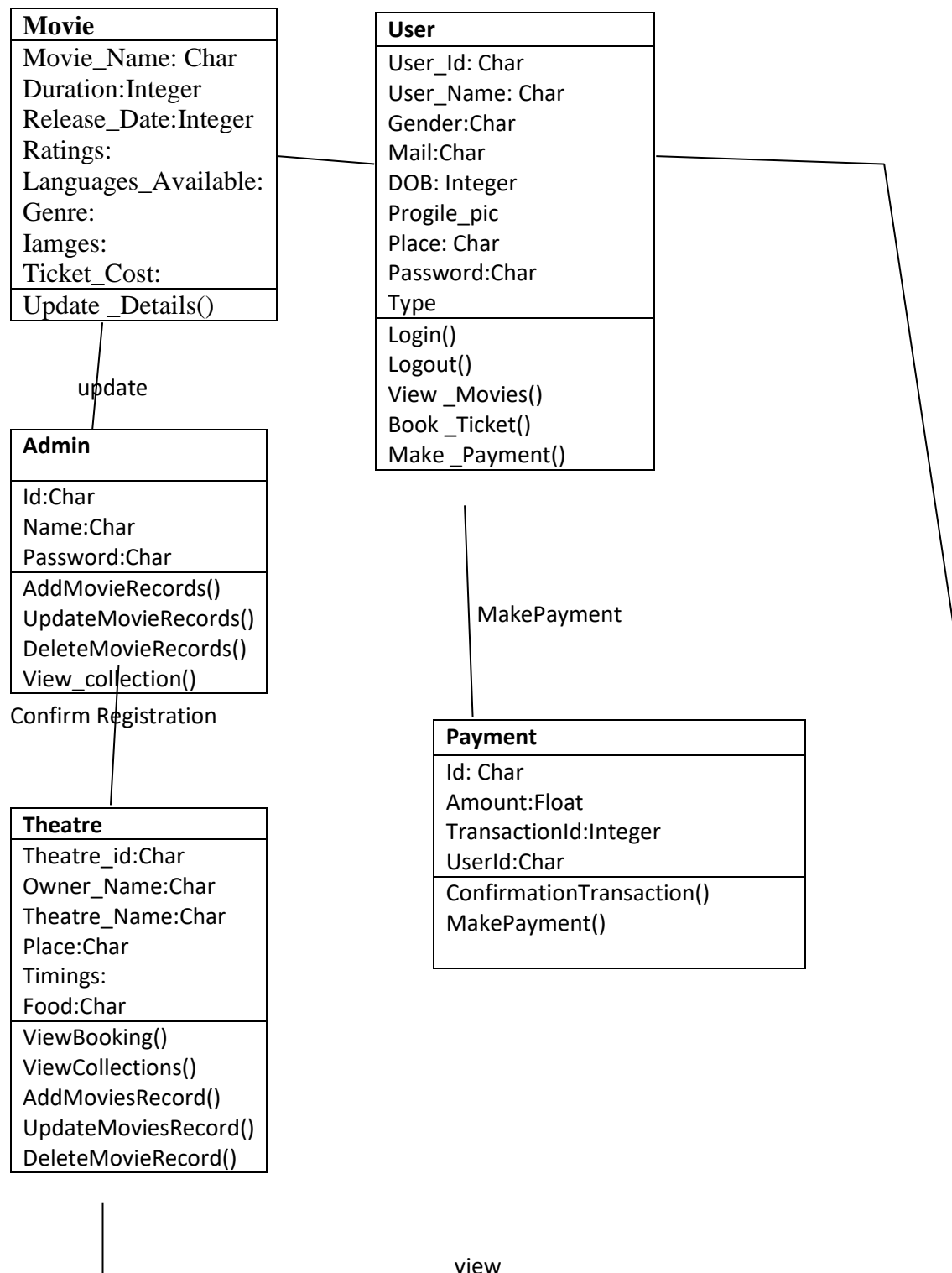
Activity Diagram

For making a Booking :





Class Diagram



Use-case diagram

