Online Movie Ticket booking system

- **Steps of Object oriented analysis & Design:**
    1. Gather All requirements
    2. Create Use-case Diagram
    3. Create class Diagram
    4. Create skeleton code
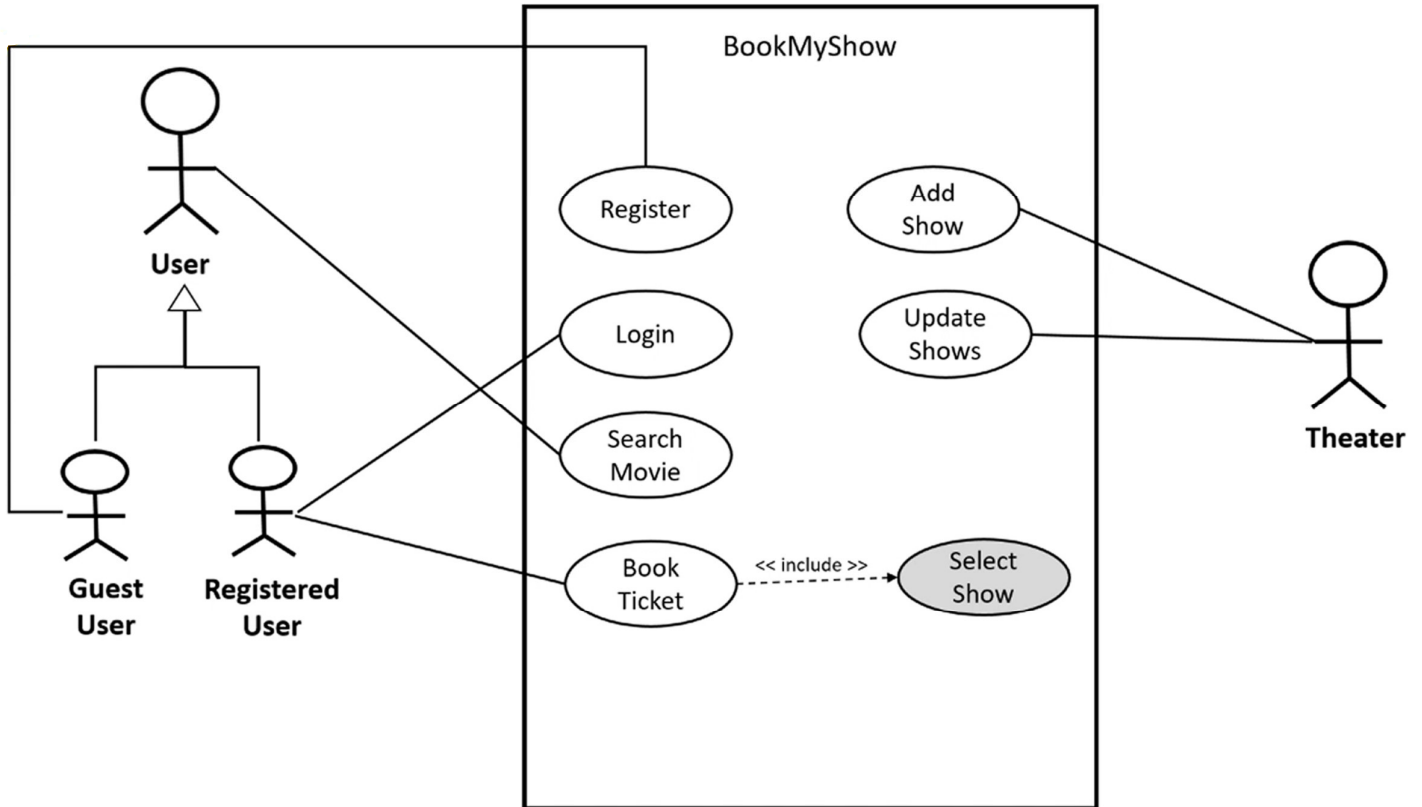   5. Complete code implementation

1. **Requirements :**
    - ➢ App will be listing current movies and the shows.
    - ➢ App Allows user to search for movies.
    - ➢ App will be listing shows for a movie.
    - ➢ App allows registered users to book ticket for a show.
    - ➢ App allow theater to add/edit a show.

- **Assumptions:**
    - ➢ Every theater has single screen.
    - ➢ Every theater has some capacity (No. of Seats).
    - ➢ Registered user can book tickets, but Guest user are allowed to search movies.
    - ➢ Registered user will have the history of their bookings.
    - ➢ Movies can be in the two languages: **Hindi / English.**
    - ➢ Movies can have any of the four genres: **Action, Romance, Comedy and Horror.**
    - ➢ **We are not considering Payment module for now.**

2. Use-Case Diagram:

3. Class Diagram:

Guest User

+ register(params): void

User
- userId:int
- name: String

RegisteredUser

+ login(params):void

BookMyShow

+ searchShows(Movie movie) : ArrayList<Show>

Ticket
- id: int
- bookingTime: DateTime
- theater: String
- numberOfSeats: int

+ getTicketInfo(): Ticket
+ cancelTicket(): int

Booking history

has

Theater
- id: int
- name: String
- location: String
- capacity : int

+ updateShow():void
+ getShows(dateTime):<>

Show
- id: int
- showTime: DateTime
- availableSeats : int

+ bookTicket() : Ticket

book

has

Movie
- name: String
- ratings: Float

<<enumeration>> Genre
ACTION
ROMANCE
COMEDY
HORROR

<<enumeration>> Language
ENGLISH
HINDI