INSTITUTE FOR ADVANCED
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Documentation On

"ONLINE MOVIE TICKET BOOKING"

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Project Guide

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Introduction

Online Ticket Booking System project is a web application which basically manages the ticket booking process of movies, providing an interface to the user to book a movie tickets in a more easy and friendly way. At the front end we have built an attractive user interface and at the back end Spring Boot and My SQL Database.

Our project have two actors, User and Admin which both have their different scopes and authorization.

The project proceeds through a sequence of well-designed forms provided with validations to Ensure consistency, reliability and most importantly correctness of information fed into the database. Admin would have some rights reserved with respect to the application.

Document Purpose:

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between Users and Talkies. This Online Movie Booking System is developed to provide the following services:

Enhance Business Processes:

To be able to use internet technology to project to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).

Online Movie Booking:

A web application in which User can register and find out different movies with respect to different Talkies in particular city. At the end used could make payment and receive the acknowledgement of booking.

Problem Statement :

Cinema-going is one of the most popular out-of-home cultural activities, affecting a serious of social, economic and cultural phenomena in modern societies. Cinemas are considered to be an integral part of cities and they contribute to the definition of a local geography and identity. They also contribute to the preservation of the collective memory, since they constitute a significant social and cultural practice linked to a specific place, which acts as a common reference or landmark for many individuals. Through this project we present a comprehensive solution for ticketbooking, it will definitely minimizes the efforts of user and talkies owners.

Product Scope:

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- Movie Industry: This includes study on how the Movie Industry is actually being work, process involved and opportunity that exist for improvement.
- J2EE Technology used for the development of the application.
- User (General people) as well as the Theatre staff will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives:

Specific goals are: -

- To produce a web-based system that allow the admin to manage all the User and provide functionalities to its role.
- To ease Users by providing different functionalities to it.
- To ease Theatre to help in its work to add and or manage the movie timings.

2. Overall Description

Product Perspective:

Existing system function:

The existing system of online movie ticket booking system is fully functional and secure in terms of payment gateway. There is a procedure in existing system where a business Advertise be shown, so that the business could grow. This system is globally spread and doing well.

PROPOSED SYSTEM:

Product functionality:

Movie Ticket booking System provides the features for admin and Users.It includes several functionalities describes as below:

Searching Movies:

User can view the required using filter by city, talkies and Movie name.

Booking a Movie Ticket:

User can book as many tickets as he wants sitting at home means over the internet.

And could pay the money online or at the booking desk in theatre.

Adding A Theater by Admin:

A Admin has rights to add theater with particular city.Admin can also delete the theater.

Adding A Movie Theater by Admin:

A Admin has rights to add movies with particular city.Admin can also delete the movies.

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Benefits of Online Movie Booking System:

- This online movie management solution is fully functional and flexible.
- It is very easy to use.
- This online movie management system helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money.
- Eco-friendly: The monitoring of the movie booking management and the overall business becomes easy and includes the least of paper work.
- The application acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the customers.
- It provides custom features development and support with the application.

Users and Characteristics:

Admin:

- Admin can login to the system.
- View the list of all theater.
- Add/Delete the theater.
- View the list of all movies.
- Add/Delete the movies.
- See the booking list.

User:

- View his/her details.
- View cities, Theater, Movies with date and timing.
- Book a ticket
- Register.
- Make payment.

Operating Environment:

Server Side:

Processor: Intel core i5 7generation

HDD: 2GB Disk Space

RAM: 8GB

OS: Windows 10

Database: MySQL 8.0

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB

OS: Windows 7, Linux

Design and Implementation Constraints:

- The application will use JSP ,BootStrap and SpringBoot as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since online ticket booking system is a web-based application, internet connection must be established.
- The Online ticket booking system will be used on PCs and will function via internet or intranet in any web browser.

3. Requirement Specification

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.

Application Interfaces:

OS: Windows 10, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to,HTTP protocol for communication with the web browser and web server andTCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

4. System Design

Activity Diagram:

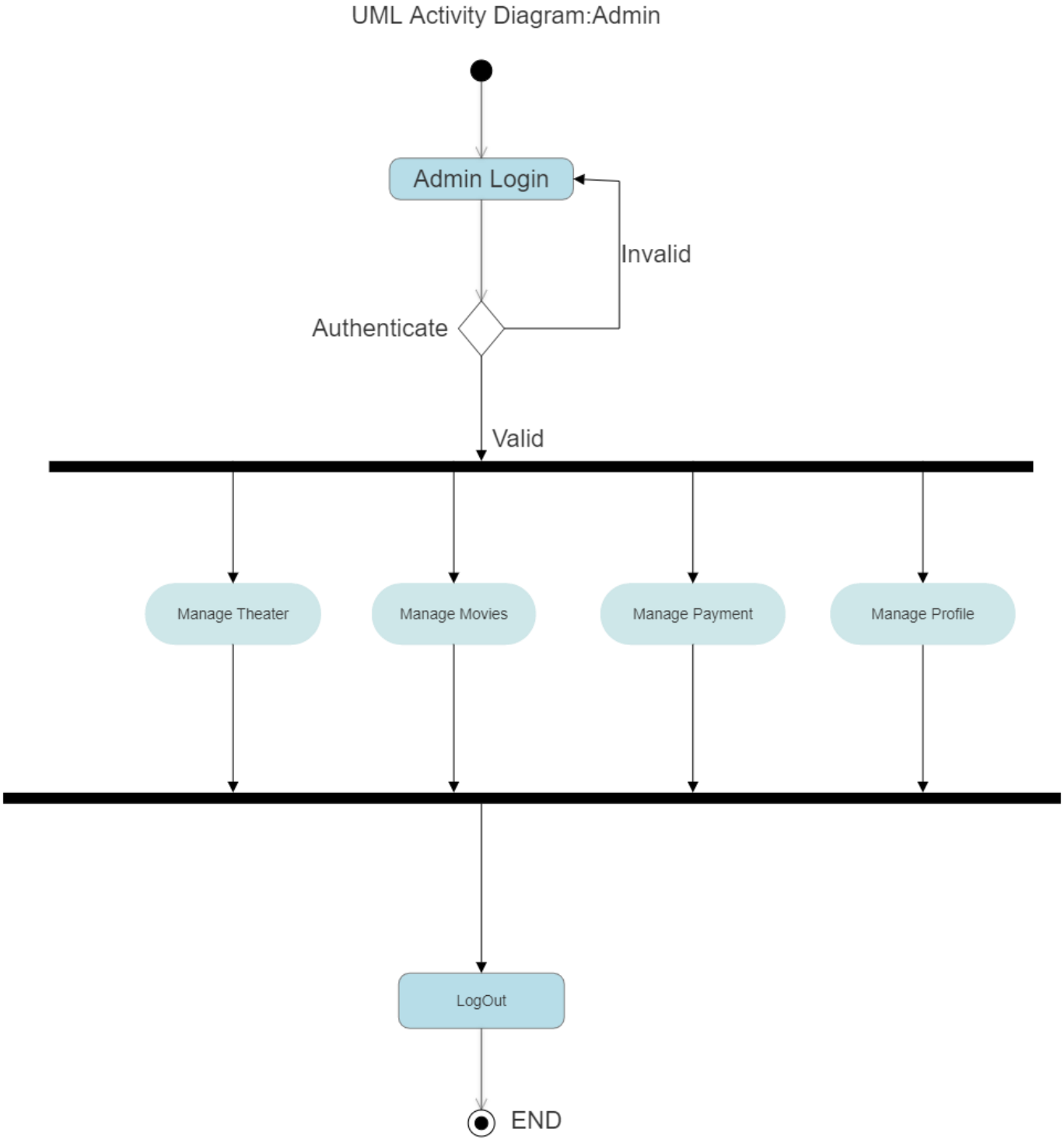


Figure 1: Admin Activity Diagram

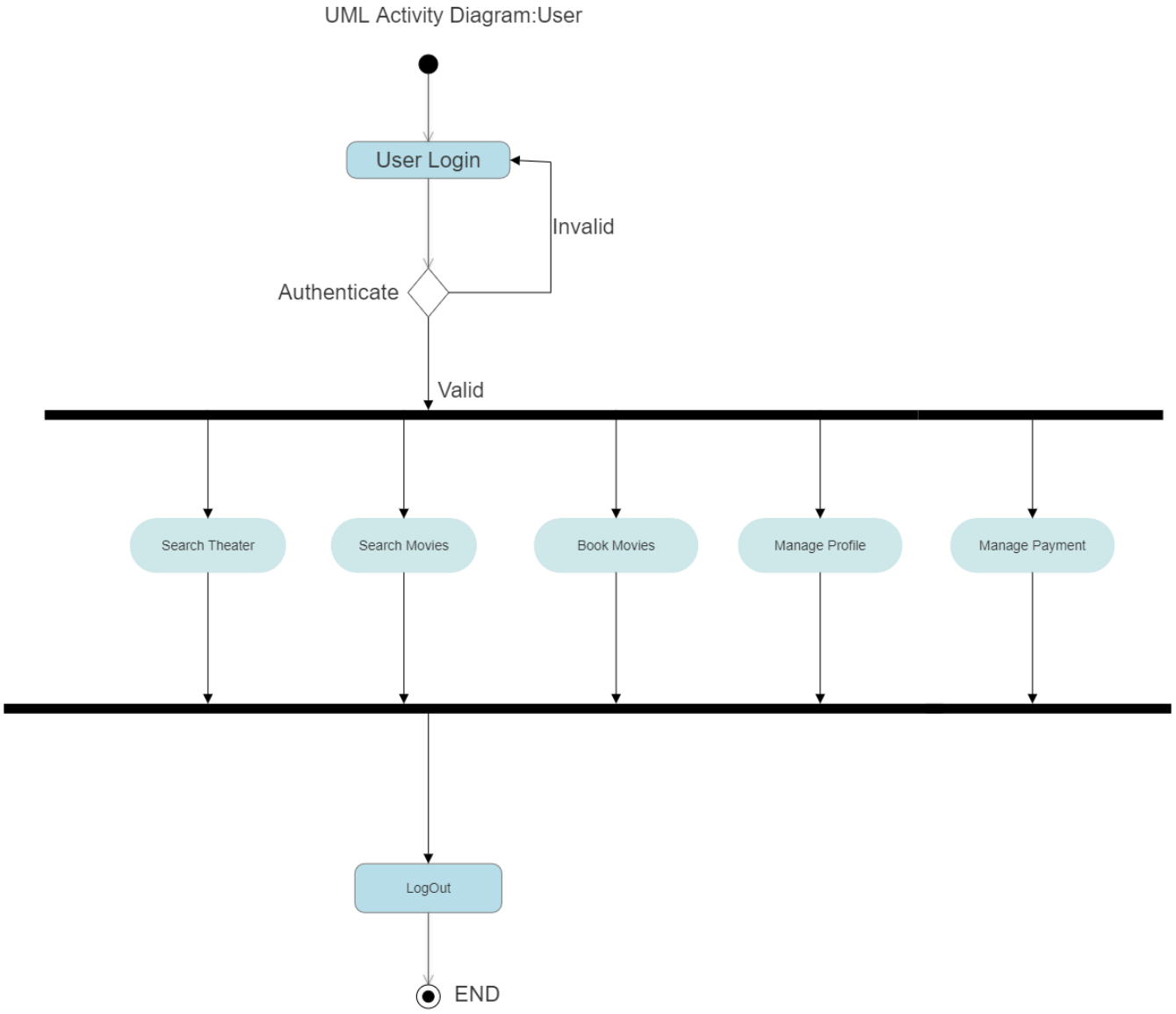


Figure 2: User Activity Diagram

Data Flow Diagram:

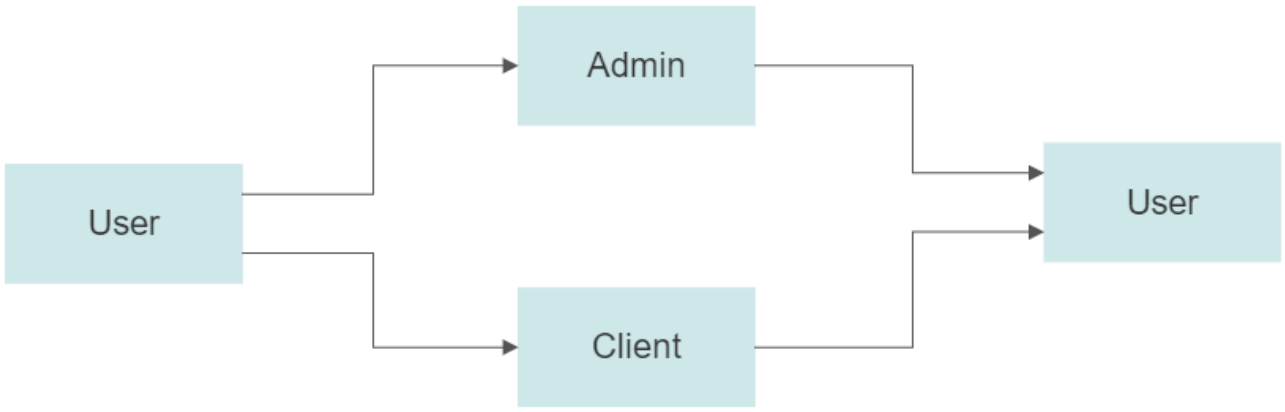


Figure 3: Level 0 Data Flow Diagram

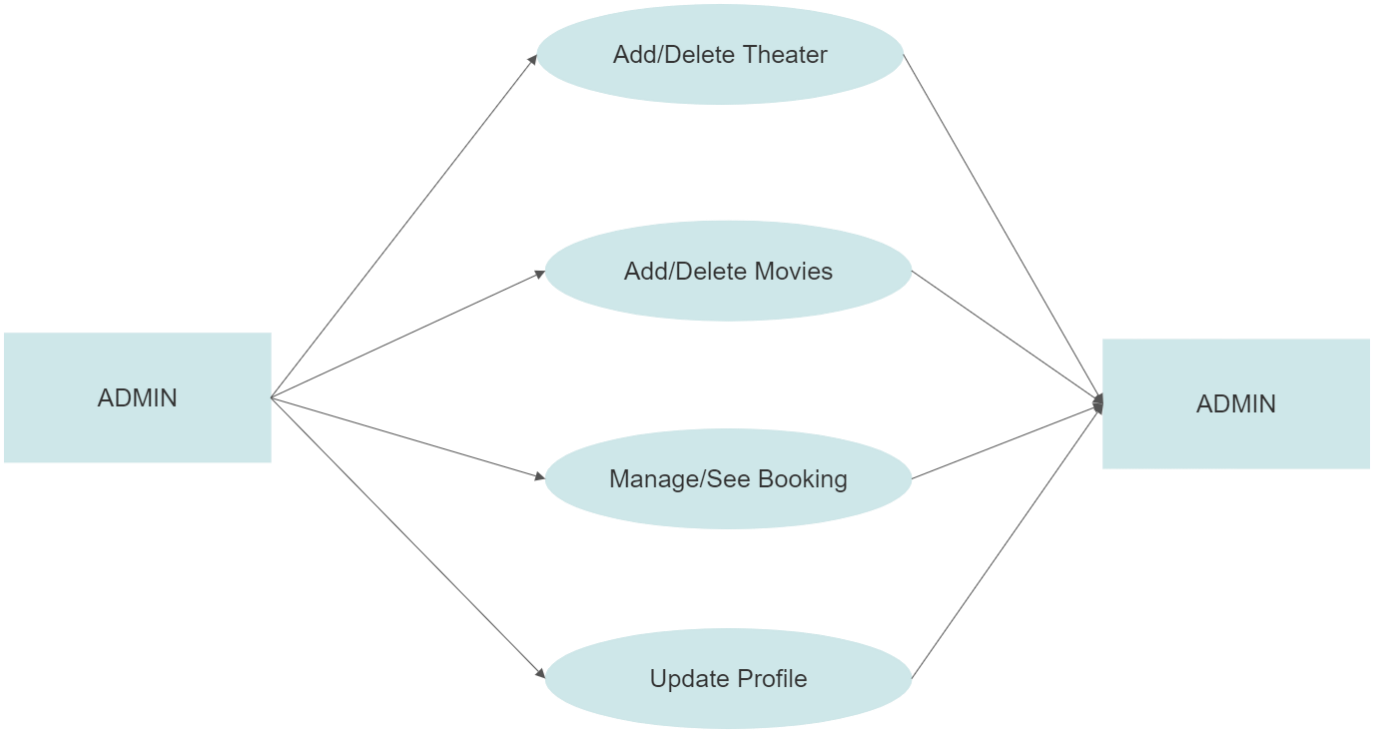


Figure 4: Level 1 Data Flow Diagram for Admin

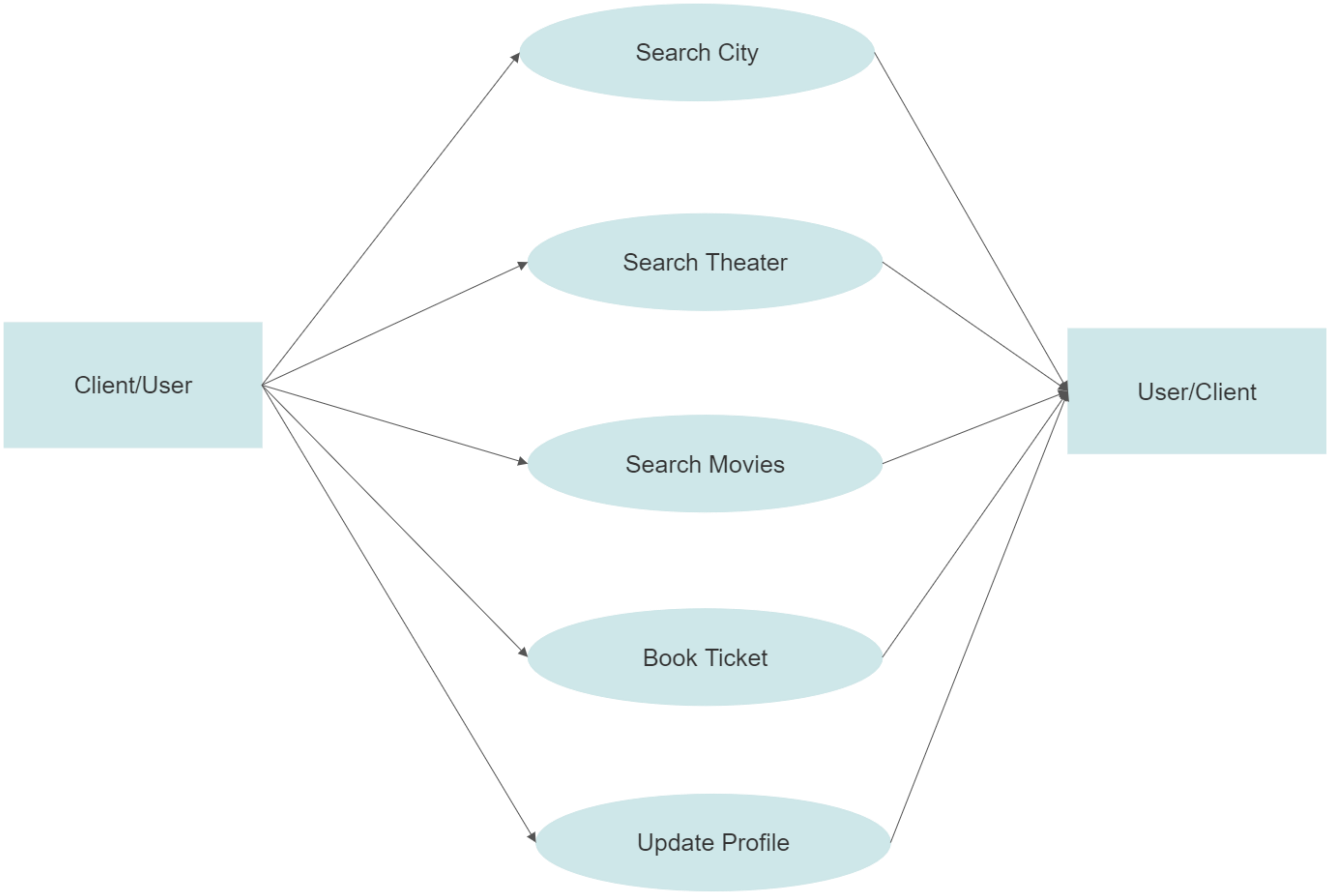


Figure 5: Level 1 Data Flow Diagram for User

Class Diagram:

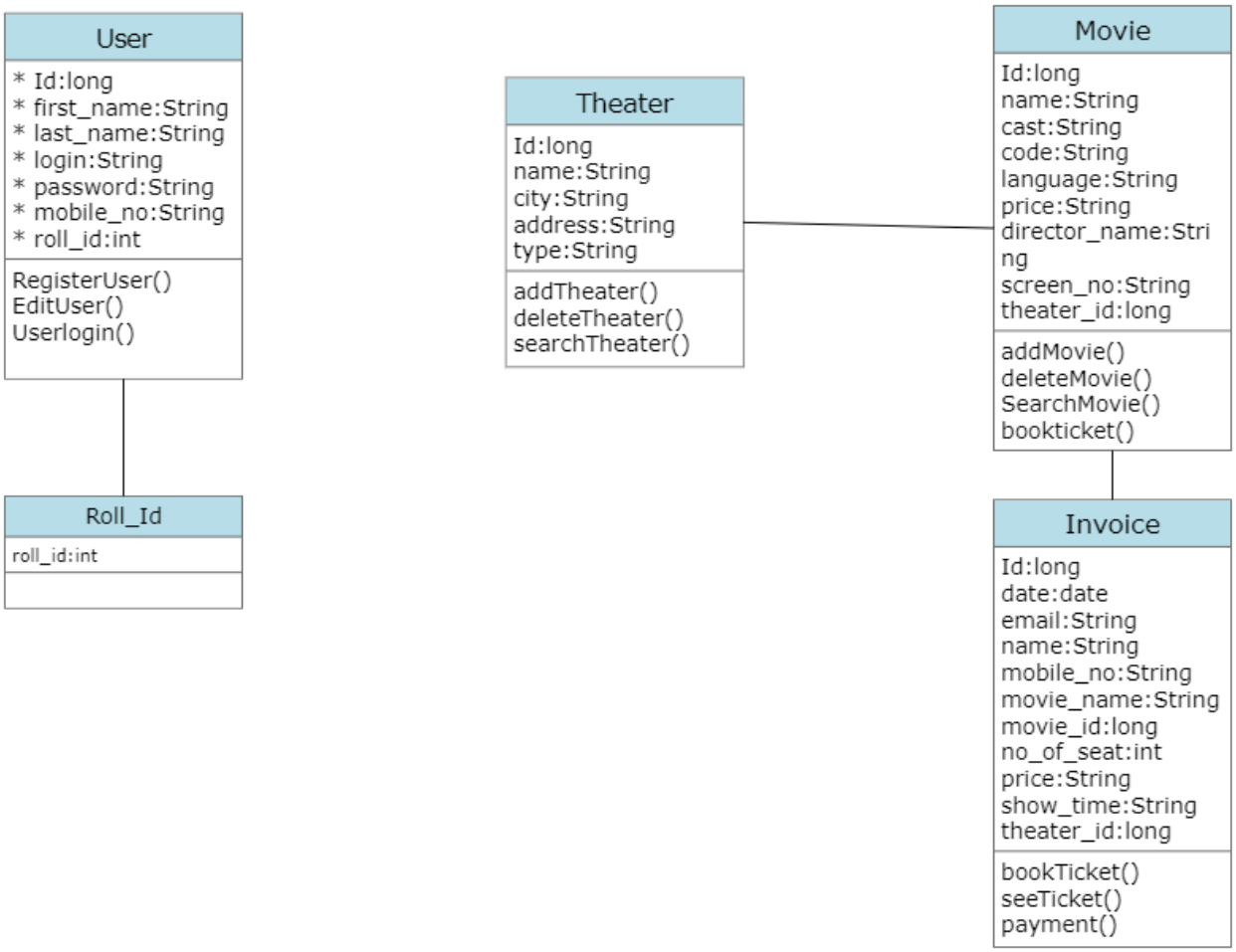


Figure 6: Class Diagram

Use Case Diagram

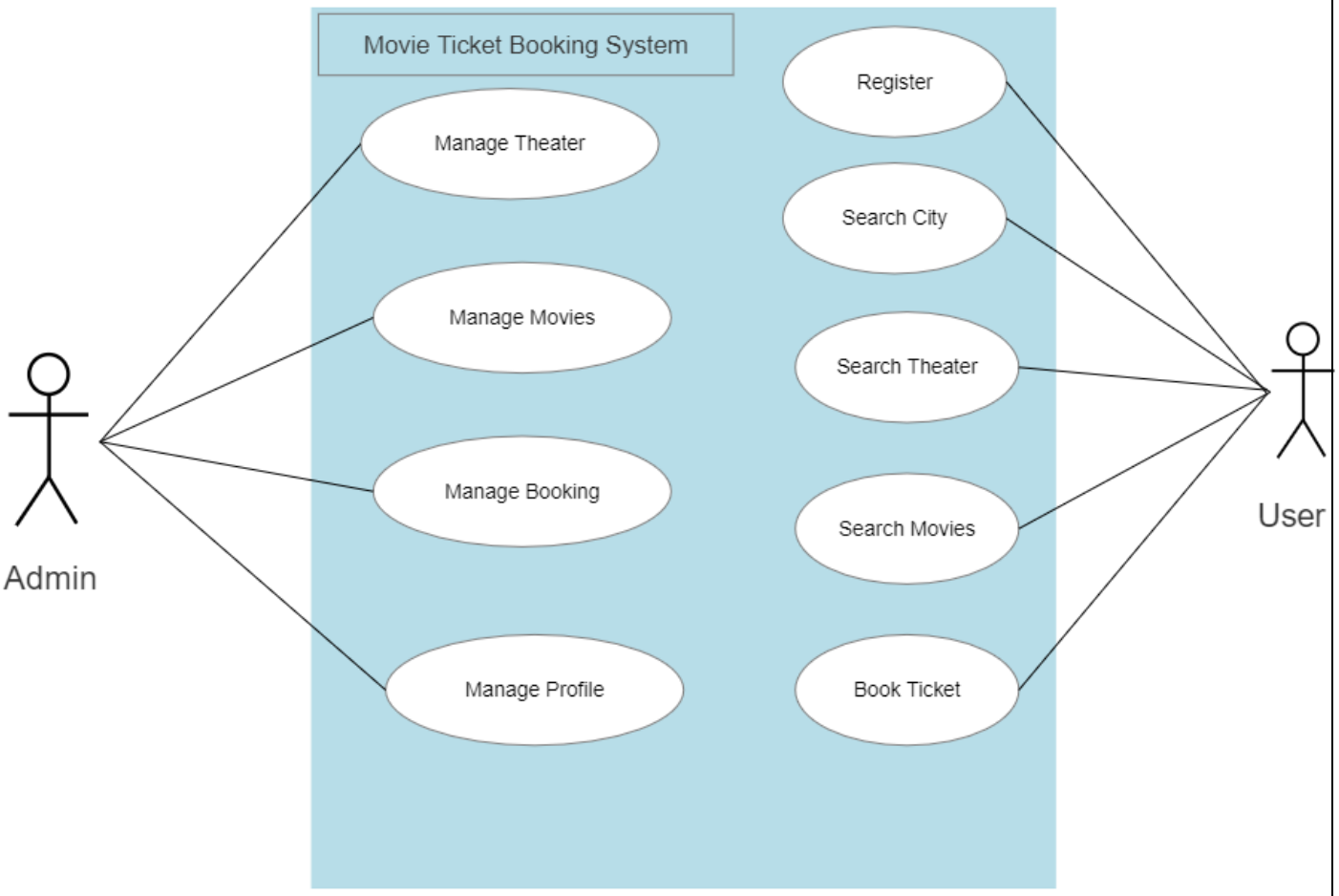


Figure 7: Use Case Diagram

ERDiagram:

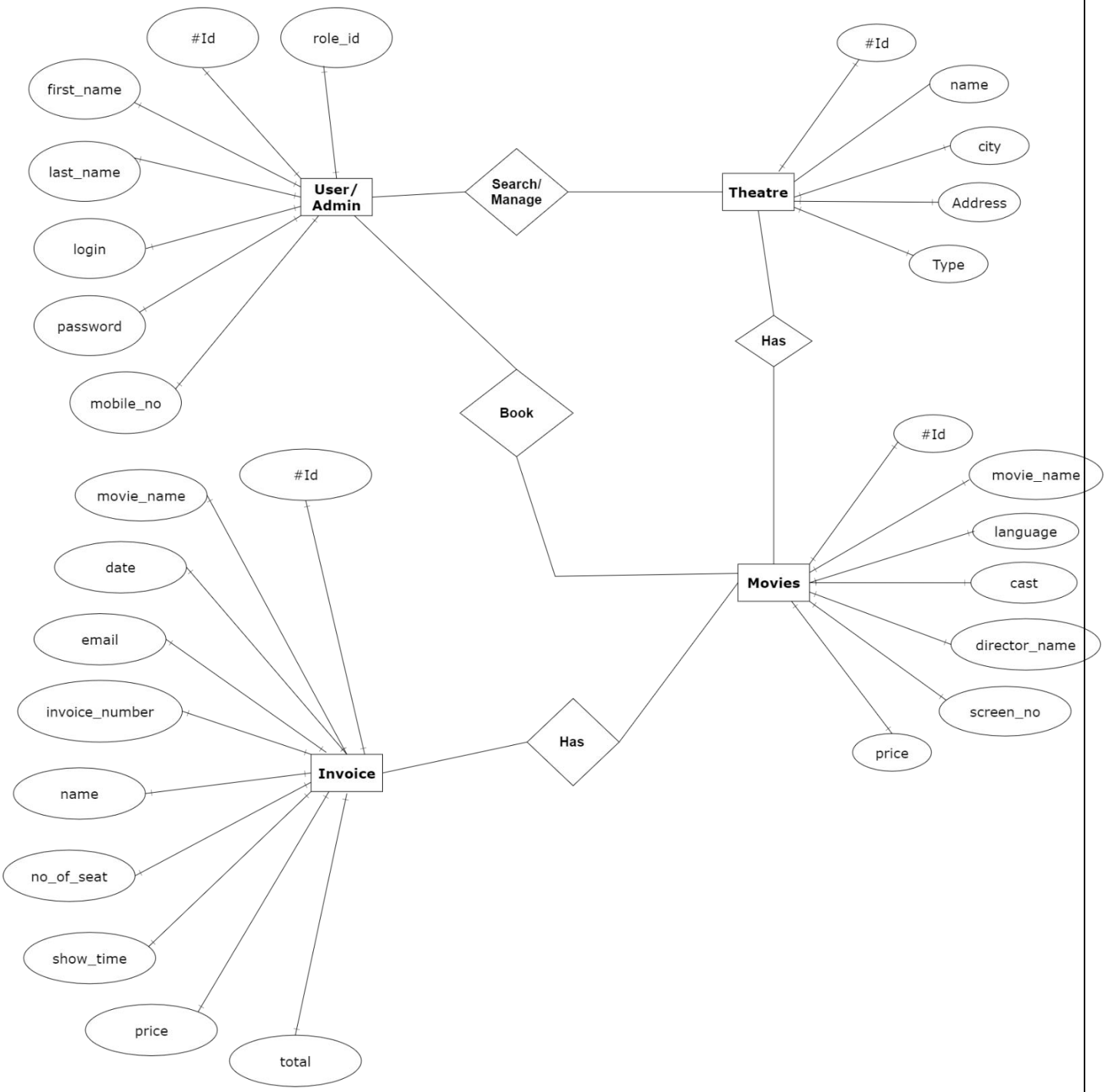


Figure 8: ER Diagram

4. Table Structure

User:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
created_by	varchar(255)	YES		NULL	
created_datetime	datetime(6)	YES		NULL	
modified_by	varchar(255)	YES		NULL	
modified_datetime	datetime(6)	YES		NULL	
first_name	varchar(225)	YES		NULL	
last_name	varchar(225)	YES		NULL	
login	varchar(225)	YES		NULL	
mobile_no	varchar(225)	YES		NULL	
password	varchar(225)	YES		NULL	
role_id	bigint	YES		NULL	

Theatre:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
created_by	varchar(255)	YES		NULL	
created_datetime	datetime(6)	YES		NULL	
modified_by	varchar(255)	YES		NULL	
modified_datetime	datetime(6)	YES		NULL	
address	varchar(225)	YES		NULL	
city	varchar(225)	YES		NULL	
image	longblob	YES		NULL	
name	varchar(225)	YES		NULL	
type	varchar(225)	YES		NULL	

Movies:

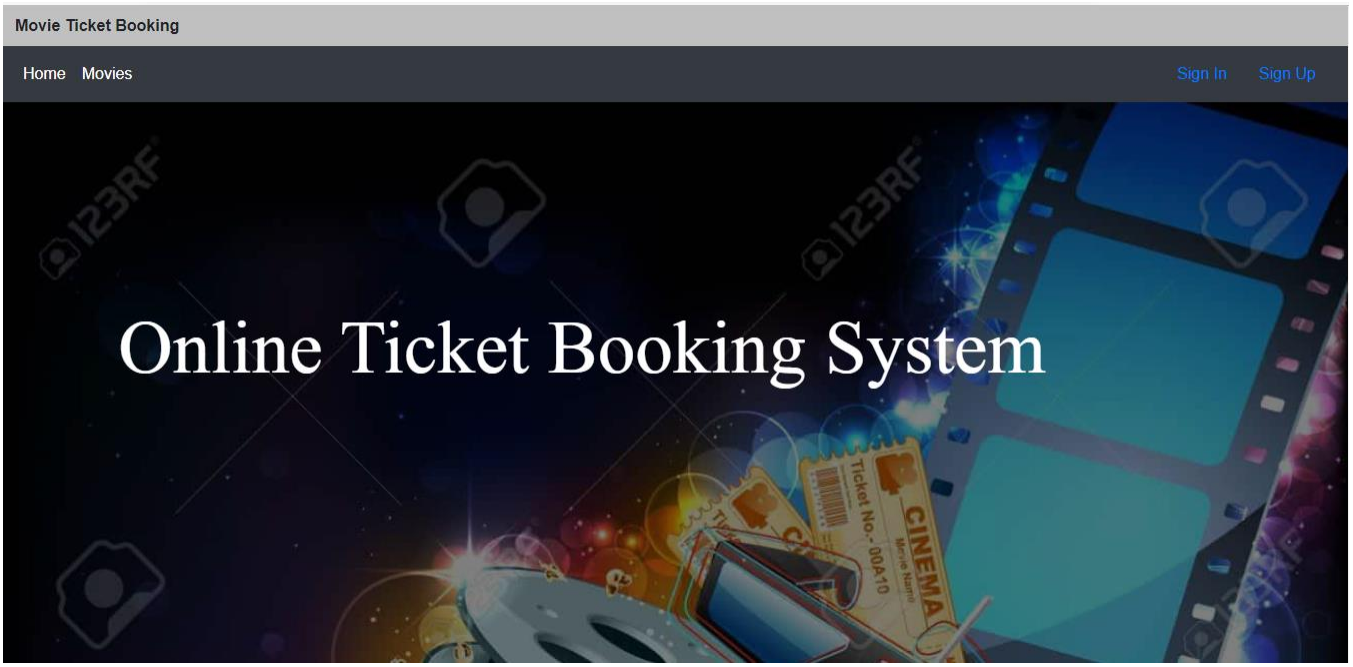
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
created_by	varchar(255)	YES		NULL	
created_datetime	datetime(6)	YES		NULL	
modified_by	varchar(255)	YES		NULL	
modified_datetime	datetime(6)	YES		NULL	
cast	varchar(225)	YES		NULL	
code	varchar(225)	YES		NULL	
director_name	varchar(225)	YES		NULL	
image	longblob	YES		NULL	
language	varchar(225)	YES		NULL	
name	varchar(225)	YES		NULL	
price	varchar(225)	YES		NULL	
screen_no	varchar(225)	YES		NULL	
theater_id	bigint	YES		NULL	
theater_name	varchar(225)	YES		NULL	

Invoice:

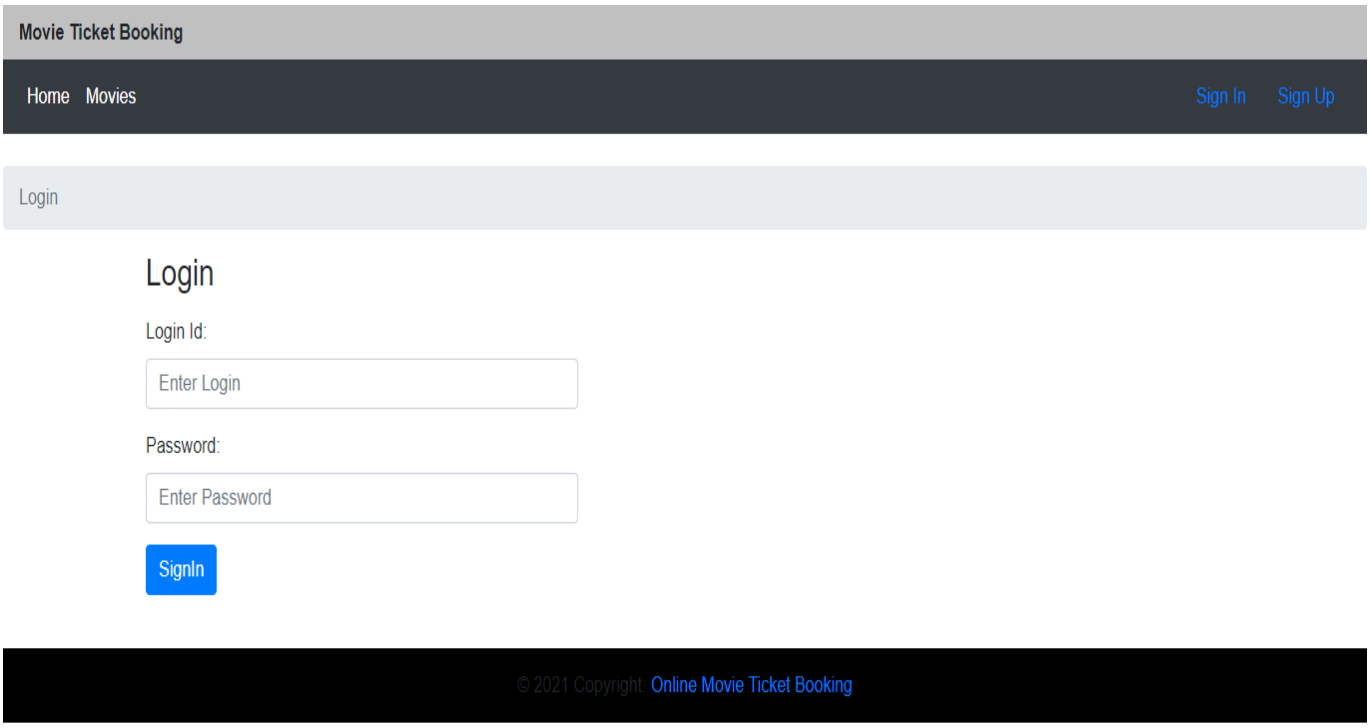
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
created_by	varchar(255)	YES		NULL	
created_datetime	datetime(6)	YES		NULL	
modified_by	varchar(255)	YES		NULL	
modified_datetime	datetime(6)	YES		NULL	
date	date	YES		NULL	
email	varchar(225)	YES		NULL	
invoice_number	varchar(225)	YES		NULL	
mobile_no	varchar(225)	YES		NULL	
movie_id	bigint	YES		NULL	
movie_name	varchar(225)	YES		NULL	
name	varchar(225)	YES		NULL	
no_of_seat	varchar(225)	YES		NULL	
price	varchar(225)	YES		NULL	
screen_no	varchar(225)	YES		NULL	
show_time	varchar(225)	YES		NULL	
theater_id	bigint	YES		NULL	
theater_name	varchar(225)	YES		NULL	
total	varchar(225)	YES		NULL	
user_id	bigint	YES		NULL	

5. Screenshots:

HOMEPAGE :

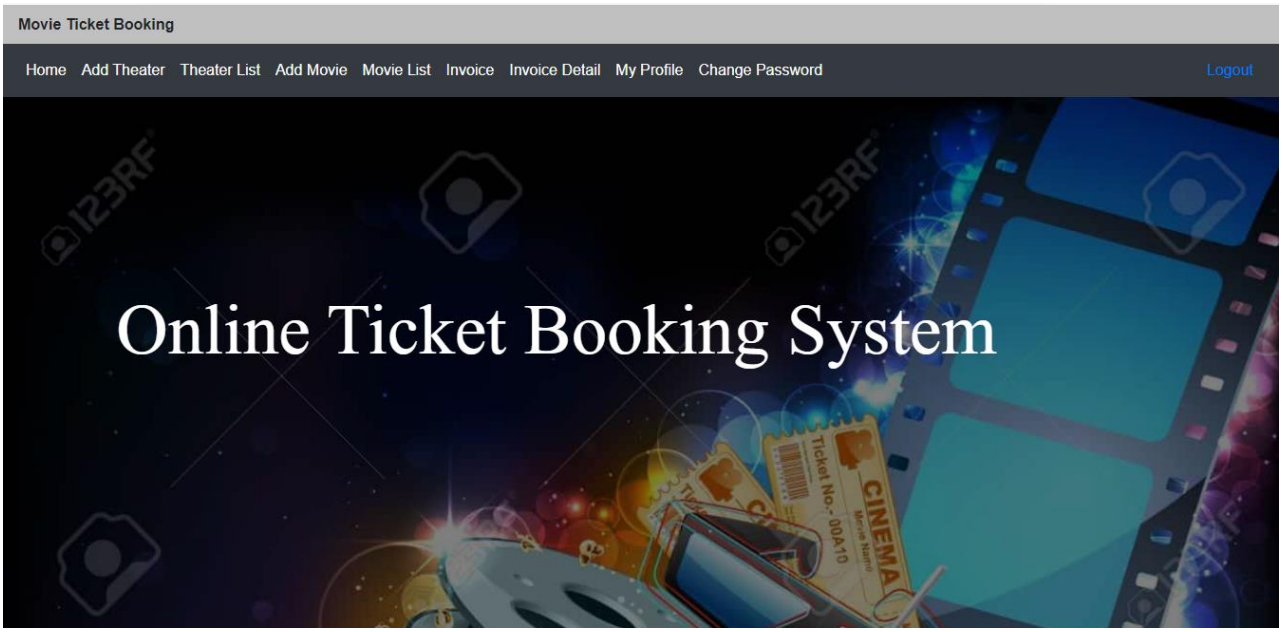


LOGIN PAGE:

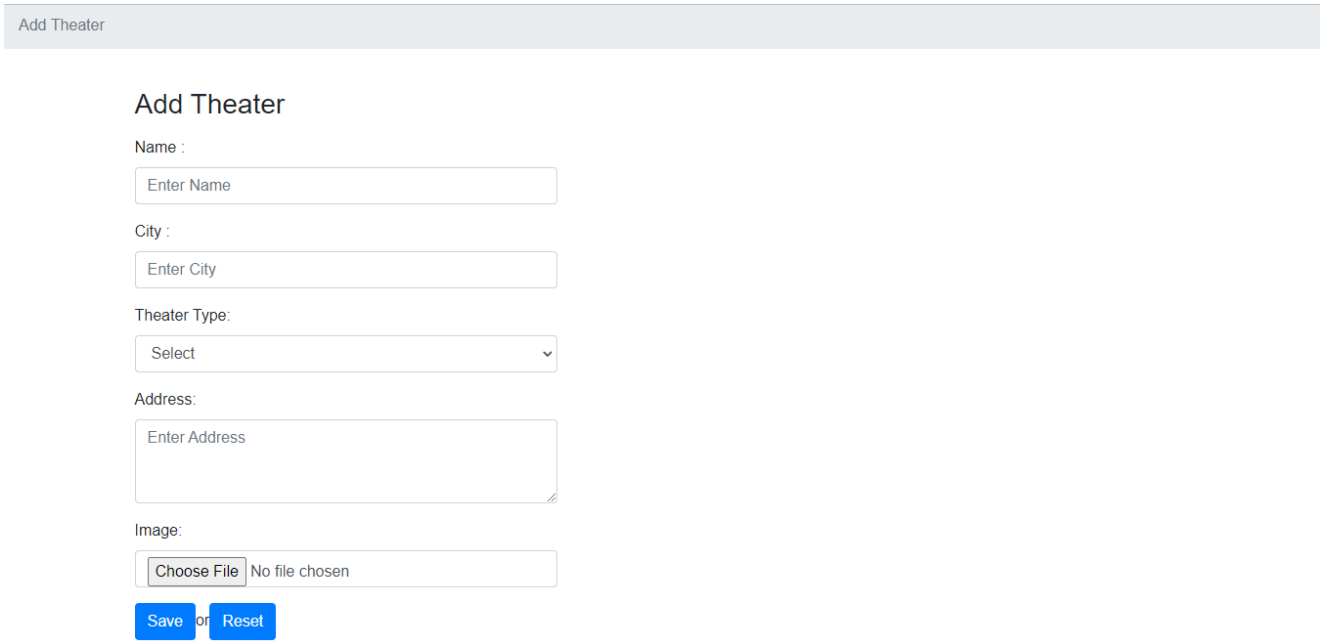


ADMIN SETTING PAGE:

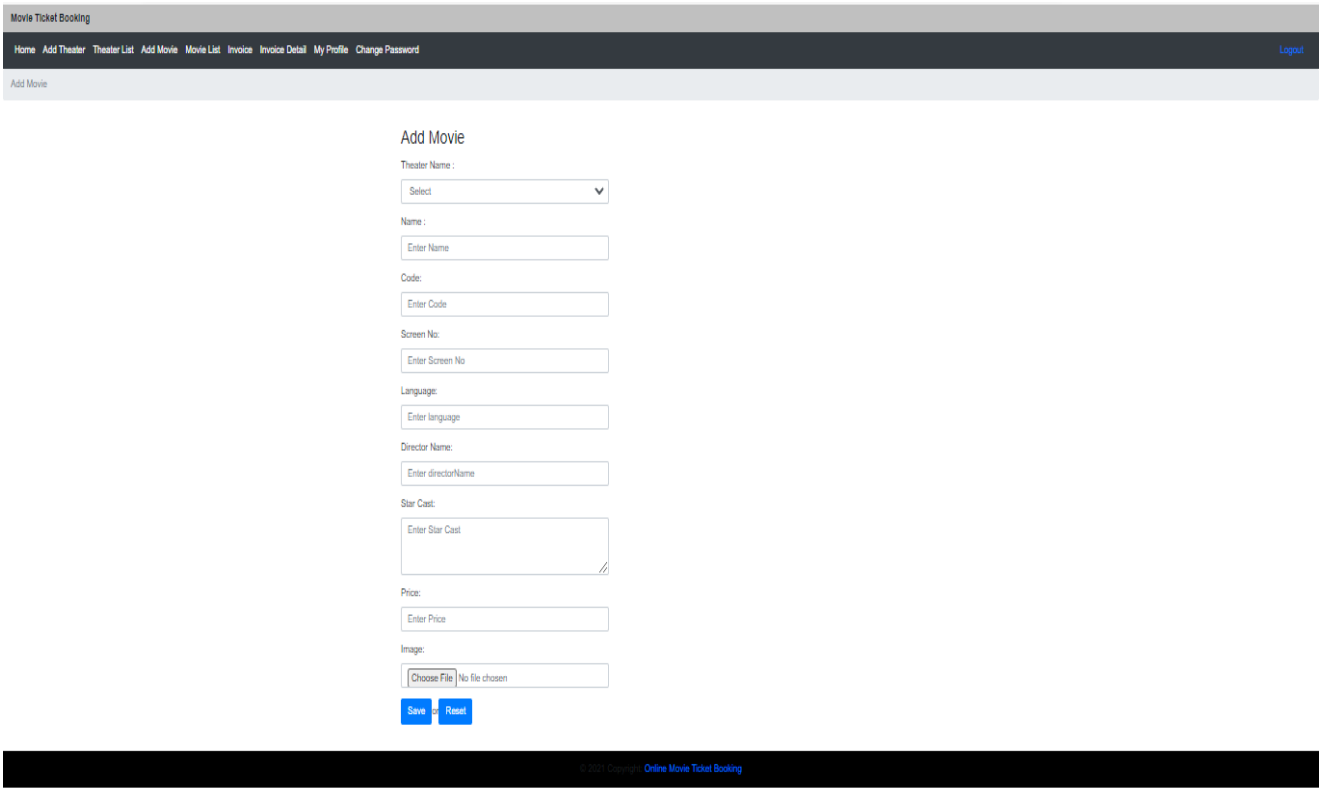
Admin Home Page:



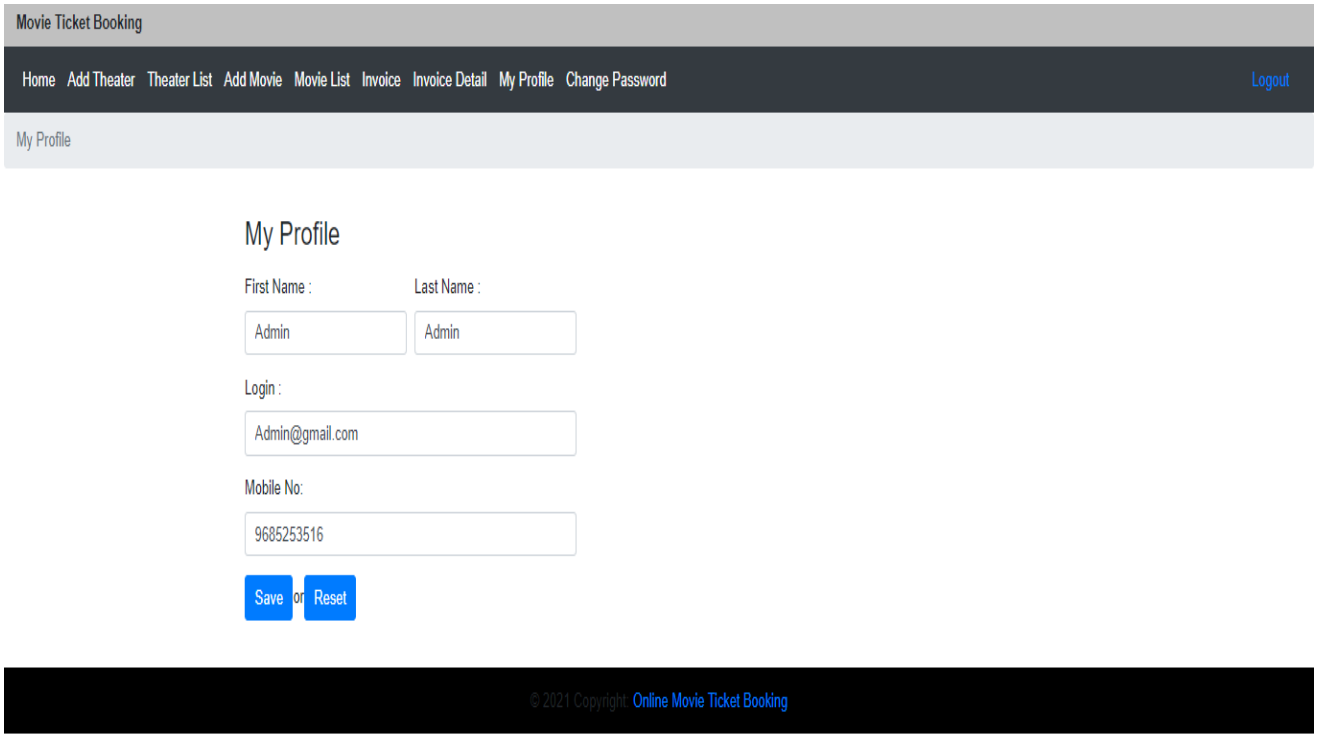
Admin Add Theatre Page:



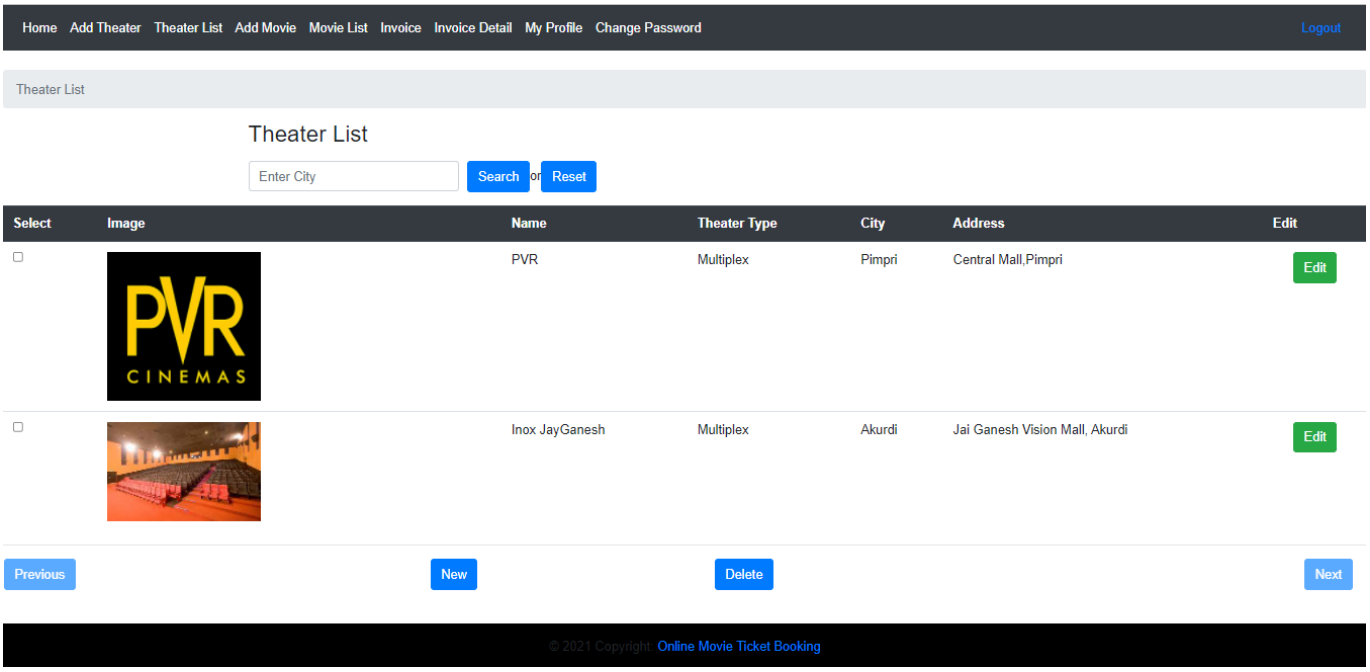
Admin Add Movie Page:



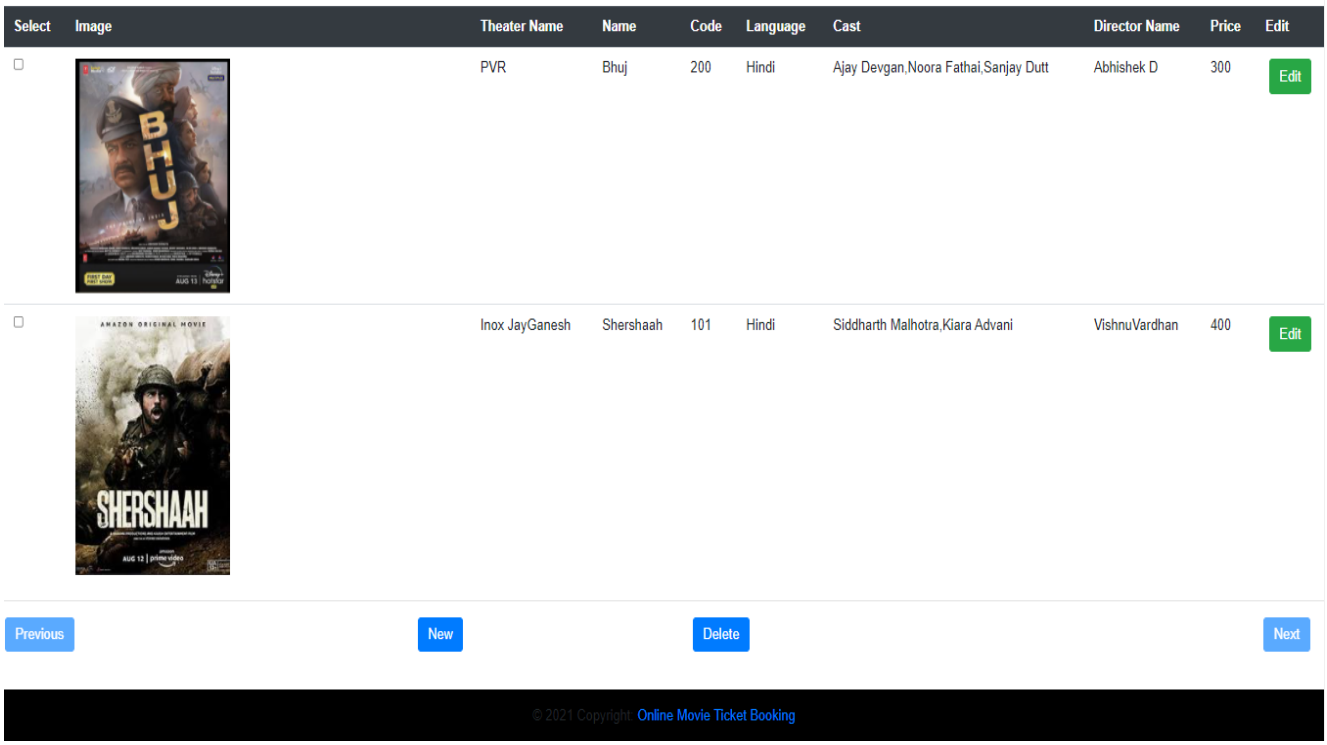
Admin Change Profile Page:



Admin Theatre List:

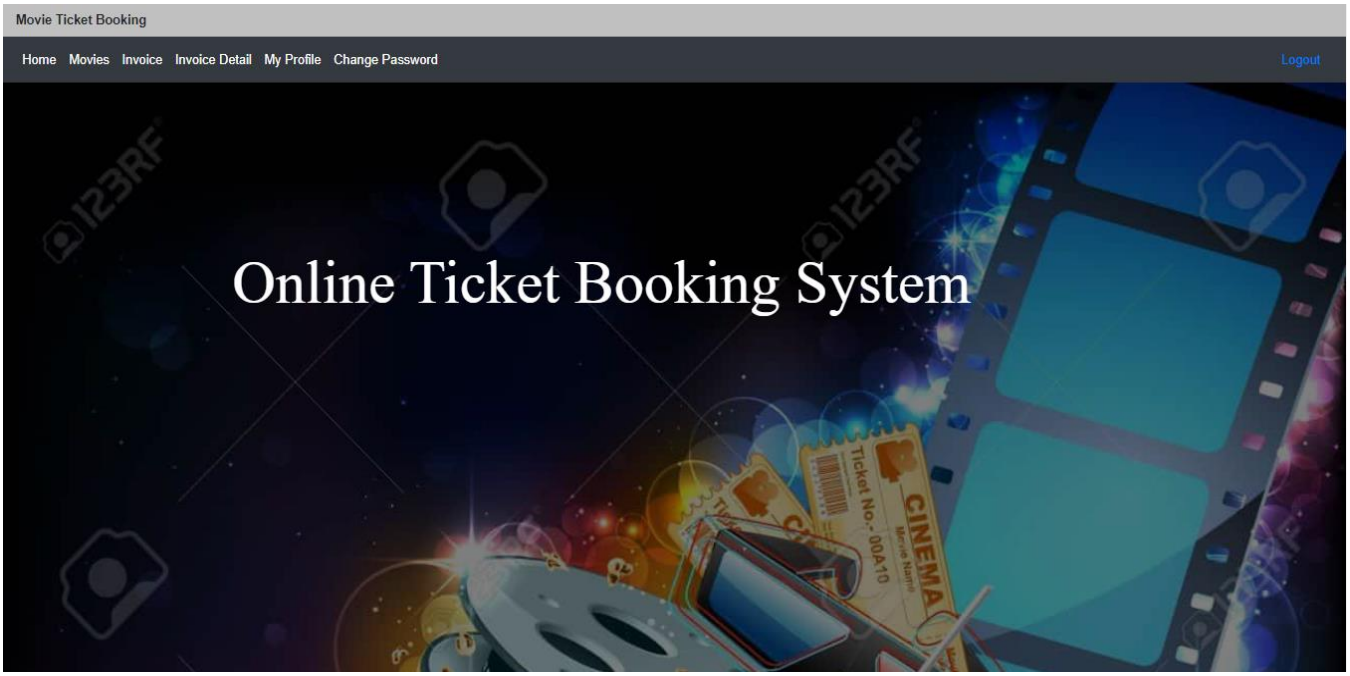


Admin Movies List:

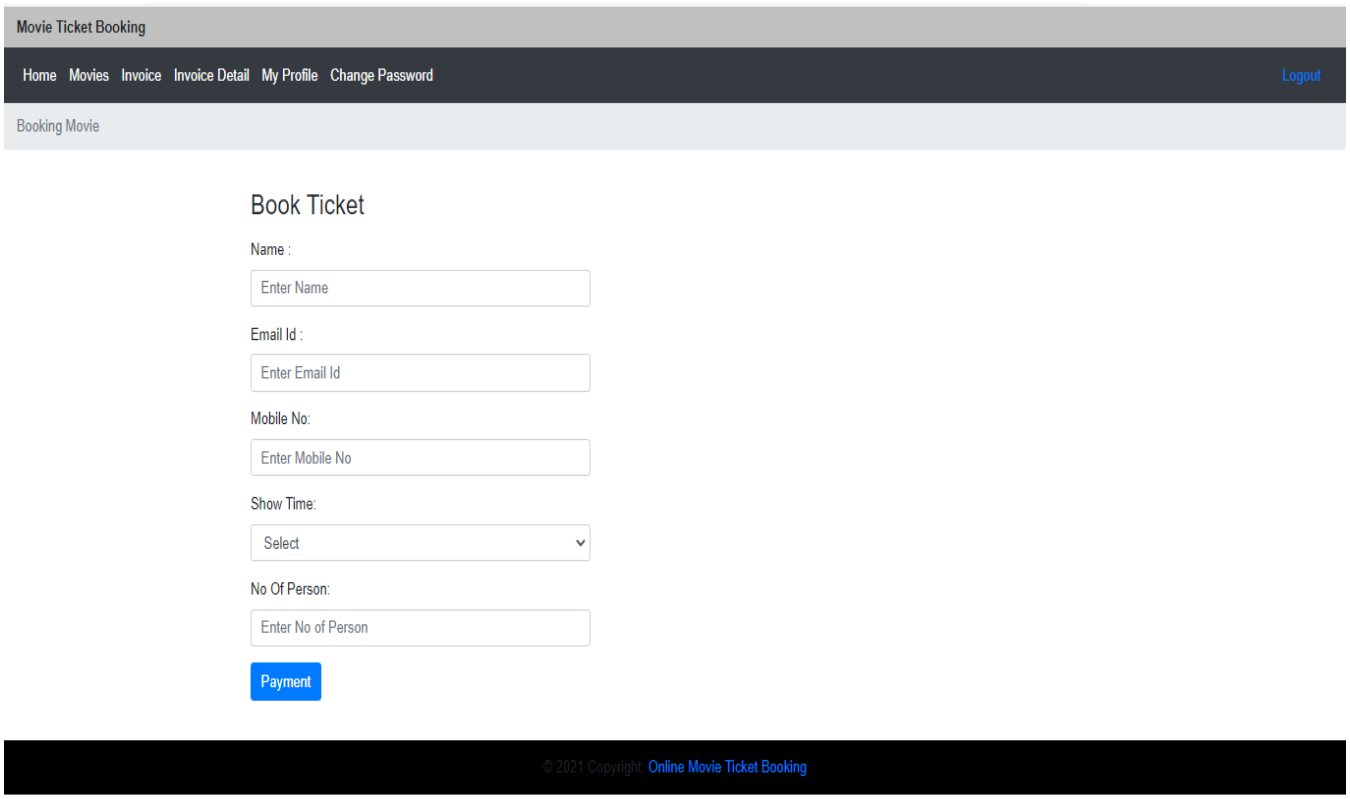


USER SETTING PAGE:

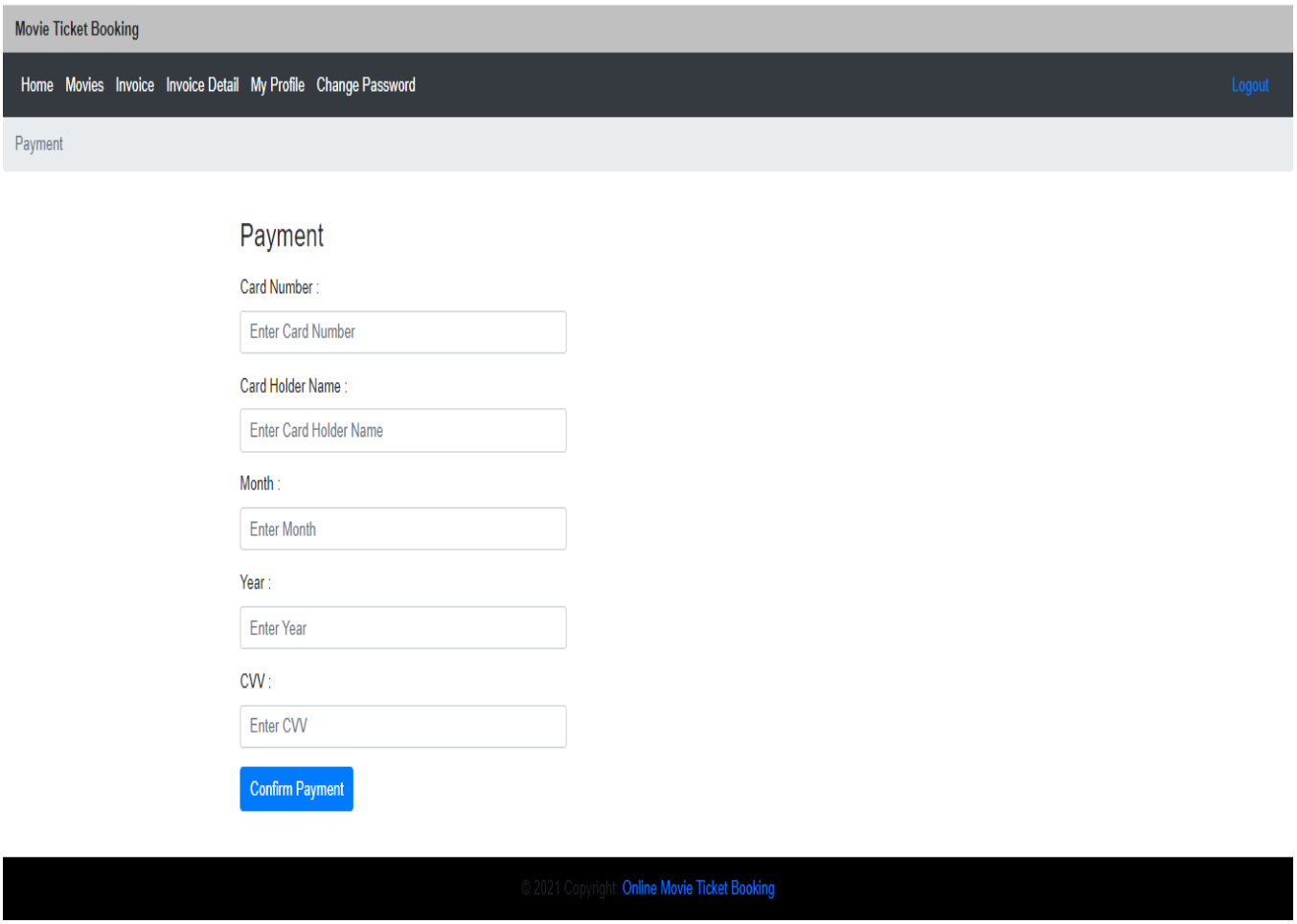
User Home Page:



User Movie Booking Page:



User Payment Page:



6. Conclusion

Online Movie Ticket booking System puts forth the model of actual working of a movie booking system. Administration, management, payment calculation, sending acknowledgement, Theatre customer management, etc. similar to a movie environment are the key features of our project. User can access services and functionalities from all over the world without any time bound which give a certain kind of for comfort and closeness.

7. Future Scope

This project can be enhanced further by adding the security in the payment gateway, so that the data and transaction of the user to the respective bank will be efficient and secure.Also in future user can select the seat for booking ticket.Again, another addition could be the commercial advertisement on the website so that there will be more business option which will be the side products of the application. Message and Email alerts for various happenings in the booking system can be added to the system so that users do not miss the updates and happenings in the ticket booking system.

8. References

[1] WWW.W3School.com
[2] WWW.JavaTPoint.com
[3] WWW.TutorialPoint.com
[4] www.geeksforgeeks.com