

**Project Report**  
**On**  
**ONLINE MOVIE TICKET BOOKING**  
**SYSTEM**



**Submitted in partial fulfillment for the award of**  
**Diploma in Advance Computing PG-DAC**

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## ACKNOWLEDGEMENT

This project “**ONLINE MOVIE TICKET BOOKING SYSTEM**” was truly a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC ACTS). We are very glad to mention Mr..Shakir sir for her valuable guidance to work on this project. His guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

We are highly grateful to Ms. Risha P.R., Manager of ACTS training Centre, C- DAC, for her guidance and support whenever necessary during the course of our journey to acquire a PG-Diploma in Advanced Computing (PG-DAC) through CDAC ACTS, Pune. Our heartfelt thanks go to Ms. Shilpi Shalini, our Course Coordinator, PG-DAC who gave all the required support and kind coordination to provide all the necessities.

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# 1. Introduction

In the world of technology everything has come to our fingertips. We can do a lot of day-to-day activities by using technology. Every sector and industry is using and implementing the technology in their domain so as to simplify their services. As a user, it really simplifies the task for them. Like one can easily do shopping online, order food to eat from his/her favorite restaurant, do online booking for hotels, do online bookings for bus tickets, train tickets, airplane tickets, etc. just by sitting in their comfort using a laptop, desktop or mobile.

Similarly, the main objective of our project was to allow users to book tickets for their favorite movie which is currently available at a particular theatre. Instead of the traditional way of booking movie tickets by going physically to the theatre, checking all the movies that are currently active, getting information about available shows, timings, and their price, waiting in the queue, and then booking the tickets for a particular show, the project aims to provide all the functionality to just at the matter of clicks. The project provides broadly two functionalities i.e. one for the admin and for the user. In admin login, the theater owner can maintain all the active running movies in the app. The owner can also add newly released movies, delete old movies, keep track of booking for each show, and can manage their customer's data as well. On the other hand, the user can easily surf through all the movies that are currently active, see movie details, watch the trailers, check the price, book the tickets for a show, make payment, etc. Therefore, It not only saves the time and effort of the users but also allows users to get the work done conveniently and more efficiently.

The backend of the project has been created using Spring Boot, and Hibernate5. Whereas the technologies used to develop the front end are HTML, CSS, JavaScript, and JSP. The relational database i.e. MySQL is used to store the data of the user and the movies.

## **2. Project Overview**

### **2.1 Purpose:**

The main purpose of the project was to simplify the whole process of booking a movie ticket. Also, to provide a platform where users can surf through the list of all the movies that are currently active, check the show timings, and book the tickets for the same. Along with that the admin can add, update or delete movies for a particular theatre.

### **2.2 Scope:**

The scope of the project was to provide a one-stop solution for the process of booking a movie ticket for all the users.

1. The admin/owner of the theatre can add, update or delete the movie details as per the new releases.
2. The admin can easily manage user data and their booking details.
3. The user can go through the list of all the movies that are available for a particular theatre.
4. Users can easily check the show timing and the prices.
5. Using the Online Movie Ticket Booking system, users can also watch the Movie Trailer.
6. Users can easily book tickets efficiently and conveniently.

### **2.3 Feasibility Study:**

A feasibility study is carried out to select the best system that meets performance requirements. The main aim of the feasibility study activity is to determine whether it would be financially and technically feasible to develop the product. The feasibility study activity involves the analysis of the problem and collection of all relevant information relating to the product such as the different data items which would be input to the system, the processing required to be carried out on these data, the output data required to be produced by the system as well as various constraints on the behavior of the system.

Before developing and implementing a system we have sure that our system is feasible in the following ways:

#### ☐ **Technical Feasibility:**

This is concerned with specifying equipment and software that will successfully satisfy the user requirements. The technical needs of the system may vary considerably, but might include:

1. The facility to produce outputs in a given time.
2. Response time under certain conditions.
3. Ability to process a certain volume of transaction at a particular speed.
4. Facility to communicate data to distant locations.

In examining technical feasibility, configuration of the system is given more importance than the actual make of hardware. The configuration should give the complete picture about the system's requirements.

□ **Operational Feasibility:**

This is mainly related to human organizational and political aspects. This feasibility study is carried out by a small group of people who are familiar with information system technique and are skilled in system analysis and design process.

Proposed projects are beneficial only if they can be turned into information system that will meet the operating requirements of the organization. This test of feasibility asks if the system will work when it is developed and installed.

□ **Economical Feasibility:**

Economic analysis is the most frequently used technique for evaluating the effectiveness of a proposed system. More commonly known as cost/Benefit analysis, the procedure is to determine the benefits and savings that are expected from a proposed system and compare them with costs. If benefits outweigh costs, a decision is taken to design and implement the system. Otherwise, further justification or alternative in the proposed system will have to be made if it is to have a chance of being approved. This is an ongoing effort that improves in accuracy at each phase of the system life cycle.

### **3. Overall Description: -**

#### **3.1 Product Features**

This project is aimed at developing an online movie ticket booking system website for the users. Online movie ticket booking system is a project developed for booking movie ticket online. This project saves lots of time and reduces the work of the customer. Some features provided to the users are new registration, user can login and can see the list of all movies that are currently active check the show timings, and book the tickets for the same. Along with that the admin can add, update or delete movies for a particular theatre.

#### **3.2 Technology Used**

□ **BACK END**

Framework	Spring Boot
ORM Tool	Hibernate
Database	MySQL
Build Tool	Maven
Language	Java

□ **FRONT END**

JSP  
HTML

CSS  
JavaScript

### 3.3 User Classes

#### □ Admin

The super user, admin class represents complete authority over the system an admin can

1. Add Admin, and Customer.
2. View the number customers.
3. Admin can update his own profile.
4. Admin can update and delete the movie.
5. The ticket booked by customer for particular movie can be viewed by admin by searching customer Id
6. Admin can add movie, delete a particular movie and also edit the information

#### □ Customer

1. This system customer can easily register using Signup.
2. The customer can easily see his profile and update profile.
3. Customer can see current movie and book seats and also print the details.
4. Customer can see all details of the booked movie
5. Customer can see booking history.

### 3.3 General Constraints

The “Online Movie Booking System” should run on all Internet Browser and all processors which supports the Internet Browser.

#### □ Architecture Diagram: -

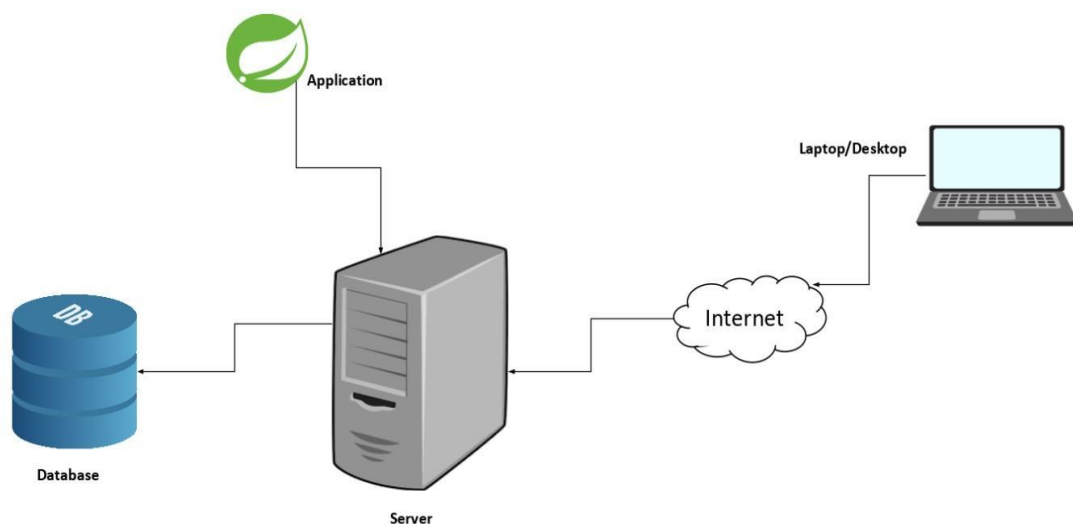


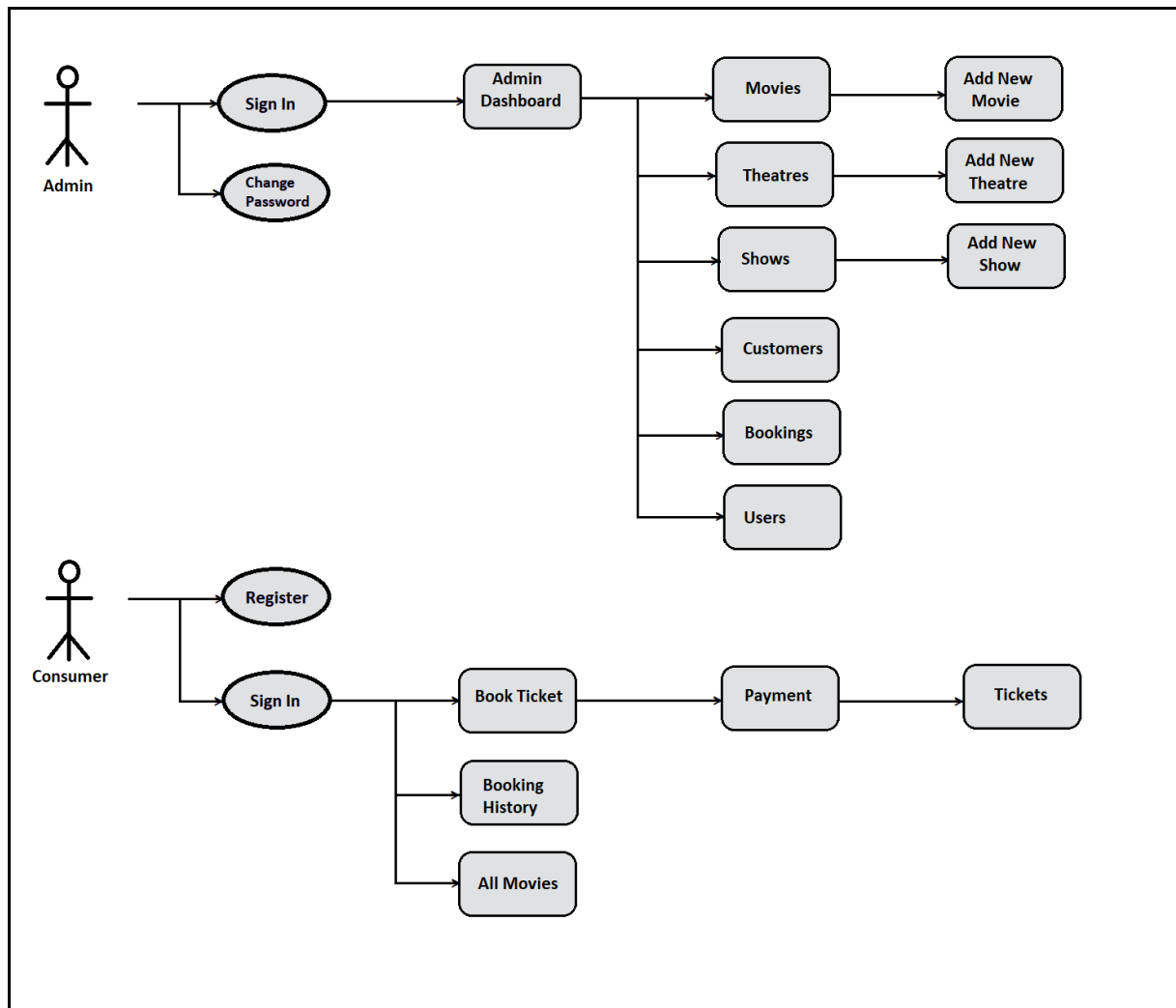
Figure 1. Architecture Diagram



## □ Software Requirements Specification

### 1. Functional Requirements

#### 🔍 Complete System



**Figure 2: Use case diagram**

There is entry interface that is intended to admin, and customer to login to the system from their own account. If the customer is not registered, he/she can register using sign-up. User has to enter the login credentials i.e., Email-Id and Password information for Login.

□ **Scenario 1: Mainline Sequence**

1. **Admin:** Enter Admin Email-Id and Password.
2. **System:**
  1. Display the Admin dashboard where admin can see admin profile and update profile.
  2. Admin can add Movie.
  3. Admin can add Theatre.
  4. Admin can add Show.
  5. View number of customers.
  6. Edit particular movie details.
  7. Can also remove movie.

□ **Scenario 2: Mainline Sequence**

1. **Customer:** Enter customer Email-Id and Password
2. **System:**
  1. Display the Home Page.
  2. View current movie and also book any number of seats.
  3. Customer can also watch trailer before confirming the tickets.
  4. Customer can view booking details.

## □ Sequence Details

### 1. Admin

#### ❖ Profile

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks Password change.
4. **System:** Opens Password change Page.

#### ❖ Add Movie

Main Mainline Sequence:

1. **Admin:** Admin logs in.
5. **System:** Opens Dashboard.
2. **Admin:** Clicks on Movies.
3. **System:** Opens the All Movies page.
4. **Admin:** Clicks on Add New Movie.
5. **System:** Opens the Add new movie form page.
6. **Admin:** Clicks on Add Movie.
7. **System:** Opens the All Movies page.

#### ❖ Edit Movie

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on Movies.
4. **System:** Opens the All Movies page.
5. **Admin:** Clicks on Edit Movie.
6. **System:** Opens the movie details form page.
7. **Admin:** Clicks on Edit.
8. **System:** Opens the All Movies page.

#### ❖ Delete Movie

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on Movies.
4. **System:** Opens the All Movies page.
5. **Admin:** Clicks on Delete Movie.
6. **System:** Opens the movie details form page.
7. **Admin:** Clicks on Delete.
8. **System:** Opens the Pop-up Confirmation Message.
9. **Admin:** Clicks on ok.
10. **System:** Opens the All Movies page.

#### ❖ Movie Details

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on Movies.
4. **System:** Opens the All Movies page.
5. **Admin:** Clicks on details.
6. **System:** Opens the movie details page.

#### ❖ Add Theatre

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on Theatres.
4. **System:** Opens the Theatres page with Add Theatre form .
5. **Admin:** Clicks on Save Theatre.
6. **System:** Add new theatre to Theatres list .

#### ❖ Add Show

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on Shows.
4. **System:** Opens the Shows page.
5. **Admin:** Clicks on Add Show.
6. **System:** Opens the Add Show form page.
7. **Admin:** Clicks on Register Show.
8. **System:** Opens the Shows page.

#### ❖ View Customers

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on customers.
4. **System:** Available consumer list page get open.

#### ❖ View Bookings

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens Dashboard.
3. **Admin:** Clicks on Bookings.
4. **System:** Bookings list page get open.

#### ❖ View Users

Main Mainline Sequence:

5. **Admin:** Admin logs in.
6. **System:** Opens Dashboard.
7. **Admin:** Clicks on Users.
8. **System:** Opens All Users list page.

## 2. Admin

### ❖ Ticket Booking

Main Mainline Sequence:

1. **Customer:** Customer logs in.
2. **System:** Opens Home Page.
3. **Customer:** Clicks on Movie Poster.
4. **System:** Opens Movie details page with Show selection form.
5. **Customer:** Clicks on Book Now.
6. **System:** Opens Available Seats page.
7. **Customer:** Clicks on Seats and then clicks on Confirm Now.
8. **System:** Add Seats details in Movie Information .
9. **Customer:** Clicks on Book Now.
10. **System:** Opens Confirm Page .
11. **Customer:** Clicks on Confirm order.
12. **System:** Confirm ticket and Show Invoice .

### ❖ Booking History

Main Mainline Sequence:

1. **Customer:** Customer logs in.
2. **System:** Opens Home Page.
3. **Customer:** Clicks on My Bookings.
4. **System:** Opens Customers All Booking list page.

## ☐ Non-Functional Requirements

### ❖ Performance Requirement

1. The time between request and response should be less
2. Minimum time should be taken by the application to display the result.
3. In case of power failure, the data should be stored in the state that was last saved by the user

### ❖ Security Requirement

- ❖ Passwords shall never be viewable at the point of entry or at any other time.
- ❖ Duplicate invoice will not be generated of same seats for same show.

## □ Database Tables

### Create Database

Query = Create database moviebooking;

```
mysql> create database moviebooking;  
Query OK, 1 row affected (0.10 sec)
```

### Tables in Database

Query = show tables;

```
mysql> show tables;  
+-----+  
| Tables_in_moviebooking |  
+-----+  
| bookings                |  
| customer                |  
| movie                   |  
| theatre                 |  
| theatre_show            |  
| user                    |  
+-----+  
6 rows in set (0.05 sec)
```

### User Table

Query = select \* from user;

```
mysql> select * from user;  
+-----+-----+-----+-----+-----+  
| userid                | id | pwd      | role   | uname                |  
+-----+-----+-----+-----+-----+  
| admin                 | 0  | admin    | Admin  | Administrator        |  
| dhannoshinde910@gmail.com | 1  | 7057103039 | Customer | Dhanshree Shinde    |  
| sagar@gmail.com       | 3  | 123456    | Customer | Sagar Palkar        |  
| sandesh@gmail.com     | 2  | 123456    | Customer | Sandesh              |  
| shubham@gmail.com     | 4  | 1234556   | Customer | Shubham              |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.04 sec)
```

## Theatre Tables

Query =select \* from theatre;

```
mysql> select * from theatre;
```

tid	address	price	seats	tname
1	Pune	150	100	Inox Pune
2	Akurdi	100	50	PVE Cinemas
3	Solapur	200	80	GoldMax
4	Shivajinagar	50	120	E-Square
5	Satara	90	70	BigCinemas

5 rows in set (0.10 sec)

## Theatre\_Show Table

Query =select \* from theatre\_show;

```
mysql> select * from theatre_show;
```

id	endtime	showname	starttime
1	11:00	Morning	08:15
2	15:00	Afternoon	12:00
4	08:00	Evening	04:30
5	00:30	Night	09:00

## Movie Table

Query = select \* from movie;

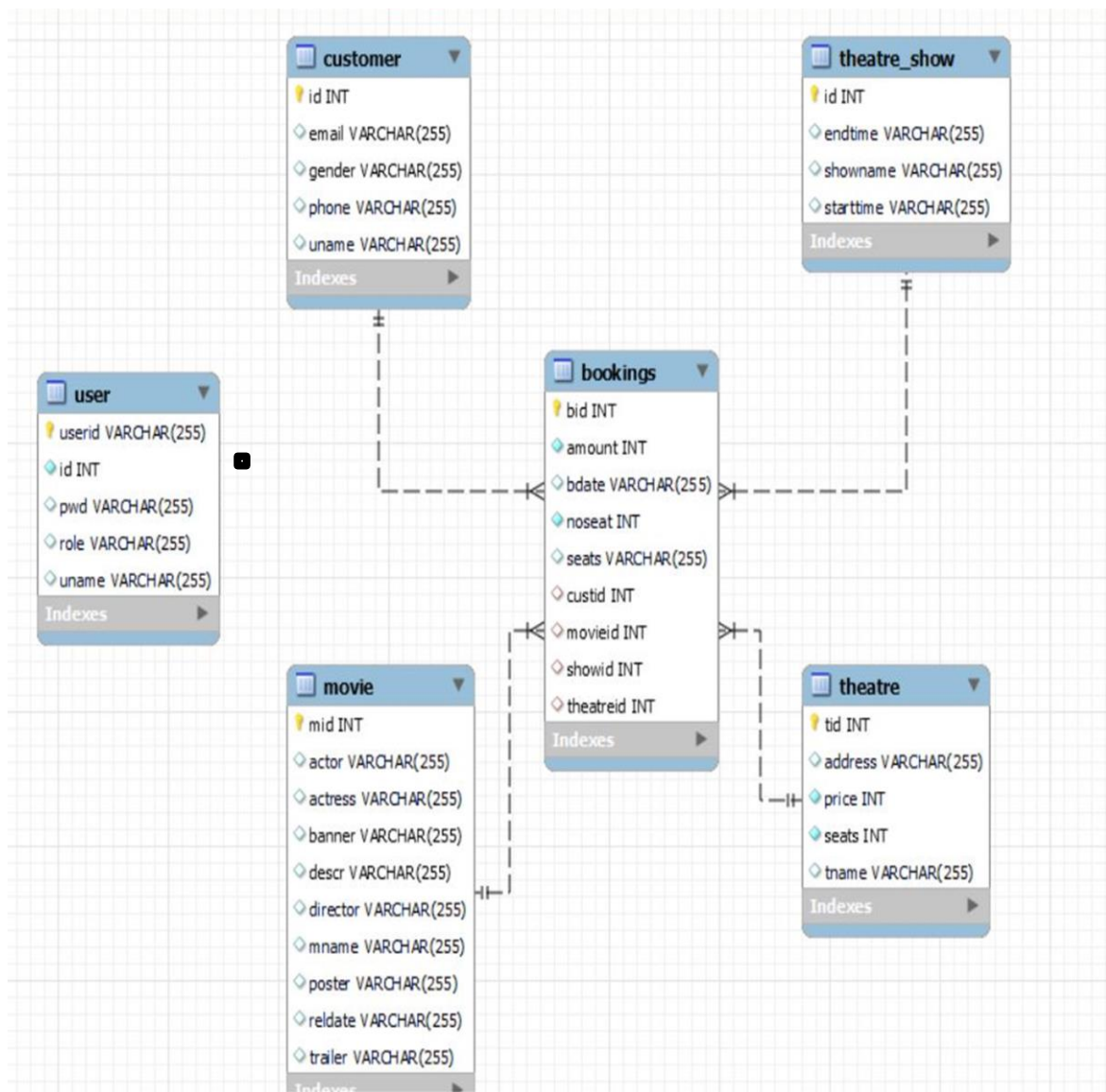
```
mysql> select * from movie;
```

mid	actor	actress	banner	descr	director	mname
poster	reldate	trailer				
1	Ranveer Singh	Deepika Padukone	banners/85d6ce3d-bd9d-487d-bdea-eb9ed0043b53.JPG	Cricket related movie	Kabir Khan	83
posters/2aae83d6-ebd3-4754-9d21-1088d0b46c30.JPG	2021-10-15	https://youtu.be/QHdkC6Kn0Io				
2	Kunchacko Boban		banners/ffe9b32b-fdfc-4132-b2da-9d604717515d.JPG	Pada is a 2022 Indian Malayalam-language Political social-thriller film	Kamal	PA
posters/48f5dcda-89ab-4ddc-8c22-4c5a35b49c70.JPG	2022-03-10	https://youtu.be/h1ehTAaK0os				
3	Yash	Srinidhi	banners/130b2698-8689-422c-8dcf-b001108c216c.JPG	Chapter 2 is a 2022 Indian Kannada-language period action film	Prashant Neel	K.G.F - 2
posters/6935cb40-a173-455c-a433-8118dc61e2ee.JPG	2022-03-27	https://youtu.be/_7b1647tH74				
4	Vijay Thalopathy	Pooja Hegde	banners/77664eef-8c5a-4589-afb3-dc831c358eb5.jpg	Beast is a 2022 Indian Tamil-language action comedy film stars Vijay and Pooja Hegde.	Nelson	Beast
posters/aaaa1a7b-7155-49e3-ade5-cc81ee31c895.jpg	2022-04-13	https://www.youtube.com/watch?v=0E1kVRRi6lk				

4 rows in set (0.00 sec)

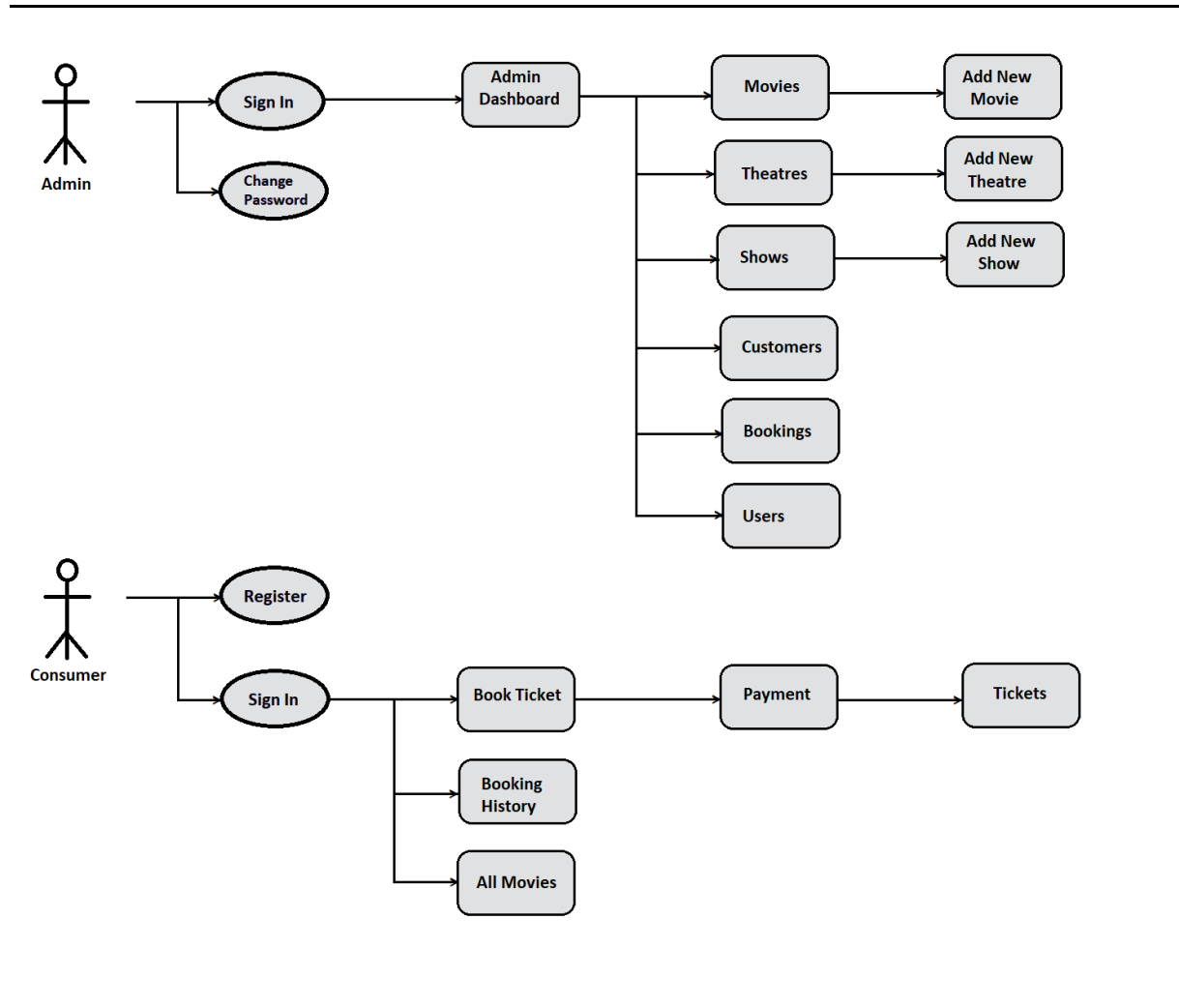


## Entity Relationship Diagram



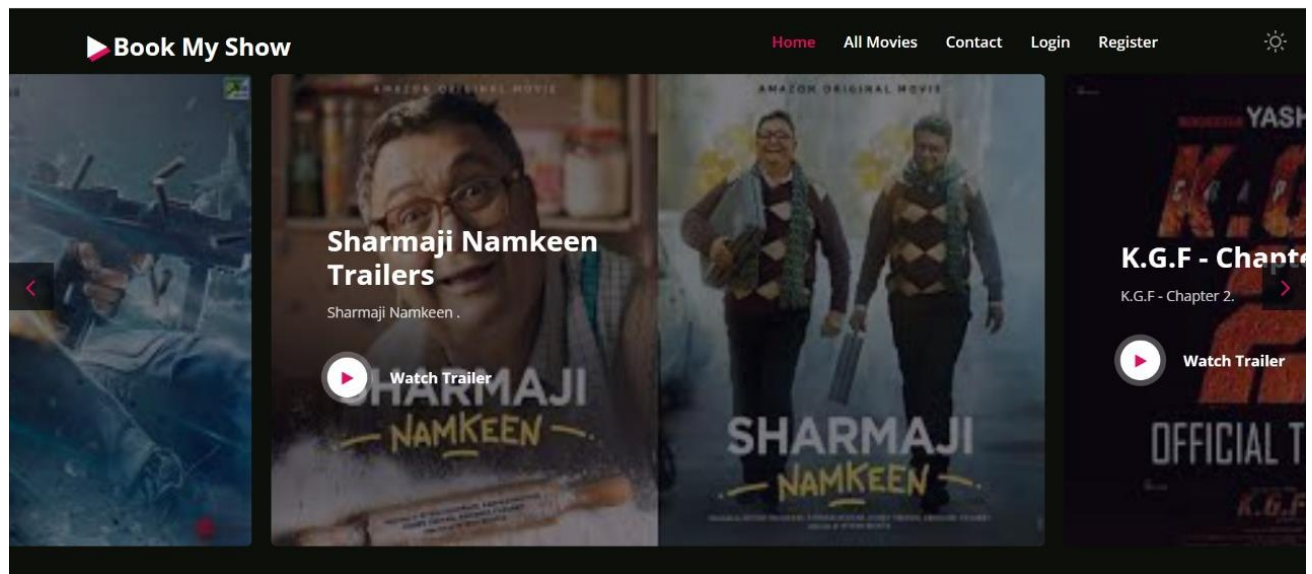
## □ Project Flow Diagram

### 1. Admin and Customer Activity Diagram



## □ Interface

### 1) Home Page



### 2) Registration Page

A screenshot of the registration page on the Book My Show website. The page has a dark background with a central white box titled 'Signup Form'. Inside this box, there are six input fields stacked vertically: 'Enter Name', 'Enter Email', 'Gender', 'Enter your Phone Number', 'Enter your password', and 'Confirm your password'. Below these fields is a prominent pink button labeled 'Signup'. The layout is simple and user-friendly, with clear labels for each input field.

### 3) Login

Login us

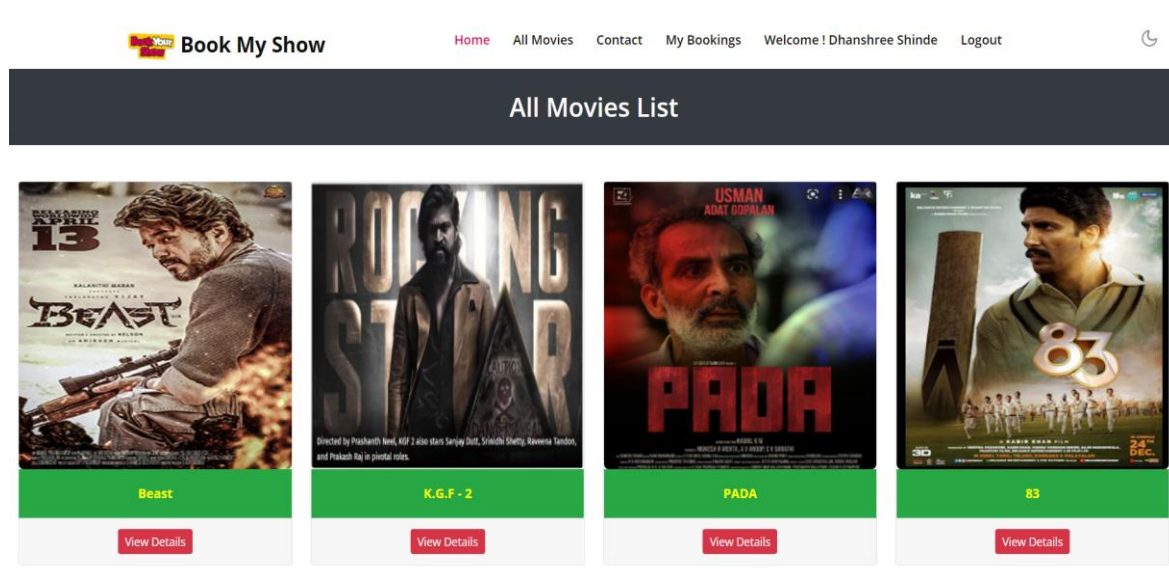
## WELCOME TO BOOK MY SHOW

### Login Form

Login

Not a member? [Signup now](#)

### 4) All movie list



### 5) Contact page

[Contact us](#)
**LEAVE A MESSAGE**

If you have a question regarding our services, feel free to contact us using the form below.

## 6) Movie details

### Displaying Details



Beast

Movie Name	Beast
Director	Nelson
Actor	Vijay Thalapathy
Actress	Pooja Hegde
Description	Beast is a 2022 Indian Tamil-language action comedy film stars Vijay and Pooja Hegde.
Trailer	<a href="#">Watch Trailer</a>
Choose Date	<input type="text" value="14-04-2022"/>
Choose Theatre	<input type="text" value="Select Theatre"/>
Choose Show	<input type="text" value="Morning"/>
<input type="button" value="Book Now"/>	

## 7) Seat booking



AvailableSelectedOccupied

12345678910

A

B

C

D

E

F

G

H

I

J

Confirm Now

Movie : Beast

Booking Information

Booking Date

2022-04-14

Theatre Name

Inox Pune

Show Time

Morning

Per Seat Ticket Price

150

Number of Seats

4

Seat Numbers

B4,B5,C4,C5

Book Now

## 8) Booking History



### Booking History

Booking ID	Movie Name	Theatre Name	No. of Tickets	Seat Numbers	Amount	Booking Date
3	Beast	Inox Pune	1	B9	₹150	2022-04-14
2	Beast	E-Square	4	A5,A6,B5,B6	₹200	2022-04-14
1	Beast	Inox Pune	2	A7,A8	₹300	2022-04-14

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## 9) Admin Home

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

Dashboard For Admin

Theaters

5

Movies

4

Customers

4

Bookings

1

## 10) Admin Movies

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

Add New Movie

All Movies

Movie ID	Movie Name	Release Date	Director	Actor	Actress	CRUD
4	Beast	2022-04-13	Nelson	Vijay Thalapathy	Pooja Hegde	<div>DetailsEditDelete</div>
3	K.G.F - 2	2022-03-27	Prashant Neel	Yash	Srinidhi	<div>DetailsEditDelete</div>
2	PADA	2022-03-10	Kamal	Kunchacko Boban		<div>DetailsEditDelete</div>
1	83	2021-10-15	Kabir Khan	Ranveer Singh	Deepika Padukone	<div>DetailsEditDelete</div>

## 11) Theaters

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

Theatres

Theatre Id	Theatre Name	Theatre Location	Capacity	Ticket Price
1	Inox Pune	Pune	100	150
2	PVE Cinemas	Akurdj	50	100
3	GoldMax	Solapur	80	200
4	E-Square	Shivajinagar	120	50
5	BigCinemas	Satara	70	90

Add New Theaters

Theaters Name

Theaters Address

Theaters Seat Capacity

Ticket Price

User ID

Password

Save Theatre

## 12) Shows

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

Shows

Add Show

Show ID	Show Name	Show Time	End Time
1	Morning	08:15	11:00
2	Afternoon	12:00	15:00
4	Evening	04:30	08:00
5	Night	09:00	00:30

## 13) Booking

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

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Bookings

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Change Password

Logout

Bookings

Booking ID	Customer	Movie	Theatre	Show	Seats	Seat Numbers	Amount	Booking Date
1	Dhanshree Shinde	Beast	Inox Pune	Morning	2	A7,A8	300	2022-04-14

## 14) Users



Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

## All Users

User ID	User Name	User Type	Password
admin	BigCinemas	Theatre	admin
dhannoshinde910@gmail.com	Dhanshree Shinde	Customer	7057103039
sagar@gmail.com	Sagar Palkar	Customer	123456
sandesh@gmail.com	Sandesh	Customer	123456
shubham@gmail.com	Shubham	Customer	1234556

## 15) Add Movies

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

## Add New Movie

Movie Name	<input type="text" value="Movie Name"/>
Release Date	<input type="text" value="dd-mm-yyyy"/>
Director	<input type="text" value="Director Name"/>
Actors	<input type="text" value="Actors"/>
Actress	<input type="text" value="Actresses"/>
Trailer Link	<input type="text" value="Youtube link for trailer"/>
Photo	<input type="button" value="Choose File"/> No file chosen
Description :	<input type="text"/>
Banner	<input type="button" value="Choose File"/> No file chosen
<input type="button" value="Add Movie"/>	

## 16) View Customer

Welcome! Admin

Admin Dashboard

Movies

Theaters

Shows

Customers

Bookings

Users

Change Password

Logout

## Customers

Cust ID	Customer Name	Phone Number	Email ID	Gender
1	Dhanshree Shinde	7057103039	dhannoshinde910@gmail.com	Female
2	Sandesh	7057103039	sandesh@gmail.com	Male
3	Sagar Palkar	7057103039	sagar@gmail.com	Male
4	Shubham	13456789	shubham@gmail.com	Male

## 17) Generate Ticket



Book My Show

Home

All Movies

Contact

My Bookings

Welcome ! Dhanshree Shinde

Logout

Print

### Booking Details

Booking Id	2
Customer Id	Dhanshree Shinde
Theatre Name	E-Square
Show Information	Evening (04:30-08:00)
Booking Date	2022-04-14
No of Seats	4
Seats	A5,A6,B5,B6
Amount	₹ 200

## **Futures Scope**

The system excludes the need of maintaining paper movie ticket as all the ticket records are managed electronically. Administrator doesn't have to keep a manual track of the users. The system automatically calculates amount of tickets the system excludes manual bill calculation. Users don't have visit the theatre for ticket booking. There is no need of manually going to theatre fir booking tickets thus it saves human efforts and resources

## **References**

1. [www.w3school.com](http://www.w3school.com)
2. <https://docs.oracle.com/javase/8/docs/api/index.html?overview-summary.html>
3. <https://www.youtube.com/watch?v=XEZij0zwK0U&t=35sm>

## **Conclusion**

This software reduces the amount of manual data entry and gives greater efficiency. The User Interface of it is very friendly and can be easily used by anyone. It also decreases the amount of time taken to write details and other modules.