A

PROJECT REPORT ON

"Online Movie Ticket Booking System"

Submitted in partial fulfilment of the requirement of

Post Graduate Diploma in Advance Computing

(PG-DAC) from

INSTITUTE OF EMERGING TECHNOLOGIES

Authorized Training Centre



Under the Guidance of Mr. Saleel Bagde

\mathbf{BY}

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CERTIFICATE

This is to certify that the project report entitled **Online Movie Ticket Booking System** is a bonfire work carried out by **1. Anuja Suryawanshi,2 Kapil Lakamote, 3. Ankit Tayde, 4. Prachi Jadhav** submitted in partial fulfilment of the requirement for the C-DAC ACTS, DAC course in the Institute of Emerging Technology in the batch of March 2023.

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Name of Students

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ABSTRACT

Online Movie Ticket Booking in web system is basically made for providing the User an anytime and anywhere service for booking movie tickets and providing information regarding movies and their online schedule. Due to increase in technology and digitalization online movie system has become much more popular. Instead of wasting time in queues of movie counter, it provides easy and efficient way to book the tickets online. It is quite fascination to sit at home browse the movies which have been released, read the review and then book the tickets according to our feasibility.

The main aim of the system is to provide complete information of the movie and schedule to the customer, according to which he/she can book the tickets.

The primary purpose of making the Online Movie Ticket Booking System is to create an automatic online based System which will provide an easy and an alternate way to book a ticket for a movie. The customer will need to enter the information related to film after which the system will provide options to book the ticket. In this Online Movie Ticket Booking System, the staff of the cinema hall won't have to do anything for the ticket Booking as the process will be done by the customer through the web which will reduce the amount of staff required in the booking counter. The Booking System will provide detailed information so that a customer can know about the movie and based on the information the customer will book the ticket.

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1 INTRODUCTION

This project is a web-based system for an online ticket booking

1.1 Purpose

Movie booking Management System where the Admin can Add, Update and Delete movies, cities, theatres. A user can register, sign in or edit profile, book movies and can make payments. Use can book a movie with the details like theatre, movie and show to book a movie. The movie objective is to deliver the online movie application into web platform. Online movie ticket booking is the process whereby consumers directly book tickets anytime anywhere in real- time, without an intermediary service, over the Internet.

It is a form of electronic commerce. This project attempts to provide the advantages of online. Ticket booking to customers of a real theatre. It helps book the tickets in the theatre anywhere through the internet by using an android device. Thus, the customer will get the service of an online movie ticket booking system and instance order from an online portal. The objective of the project is to make an application on the web platform to book tickets. In order to build such an application complete web support needs to be provided. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of a web application with web view.

1.3 Overview

It is a web based online project. The main aim of the project is that any user can access the system through the website at any time without going to the company. As a new user also he can collect all information like as a movies Available, list of theatres

- 1. User module
- 2. Ticket booking module
- 1. User module the user can first Registration in enter the Personal details, and User login and If you want to update personal Details and you and update. The user collects all information like Movies details, Theatre Details.
- 2. Booking module: The Users will search for the movie and then go for theatre then booking the tickets Online.

2 Problem Definition and Scope

2.1 Goals and Objective

The objective of the project is to make an application on a web platform to purchase movie tickets. In order to build such an application complete web support, need to be provided. A complete and efficient web application which can provide the online movie ticket booking experience is the basic objective of the project. The web application can be implemented in the form of a web application.

2.2 Product Functions

Admin

Admin can Add new Theatre
Admin can Update an existing Theatre
Admin can Delete an existing Theatre
Admin can Add new City
Admin can Update an existing City
Admin can Delete an existing City
Admin can Add new Movie
Admin can Update an existing Movie

Manager

Manager can Add new Show
Manager can Update an existing Show
Manager can Delete an existing Show
Manager can Add new Screen
Manager can Update an existing Screen
Manager can Delete an existing Screen
Manager can Add new Seats
Manager can Update the existing Seats

User

User can Add new Order
User can Update an existing Order
User can Delete an existing Order
User can Add new Review
User can Update the existing Review
User can Delete the existing Review
User can Add new Ratings

2.3 Major Constraints and Outcomes

- 1. **Scalability:** The system needs to be able to handle a large number of users and orders, as well as handle spikes in traffic during peak seasons.
- 2. **Security:** The system must ensure the security of user data, including personal information, payment details, and order history.
- 3. **Reliability:** The system must be available and responsive at all times to ensure that users can make orders and access their information without interruption.
- 4. **Integration:** The system must be able to integrate with other systems such as payment gateways, social media, and third-party APIs.
- 5. **User experience:** The system must be easy to use and navigate for both customers and staff to ensure a smooth process.
- 6. **Data privacy:** The system must comply with data privacy regulations.
- 7. **Customizability:** The system must allow for customization to meet the unique needs of different customers.
- 8. **Accessibility:** The system must be accessible for differently abled users and comply with web accessibility standards.
- 9. **Maintenance:** The system must be easy to maintain and update to ensure that it stays up-to date with the latest technologies and features.

3. SOFTWARE REQIREMENT SPECIFICATION

Overall Description:

System Environment

The Movie Ticket Booking System has two active actors, customer and admin. The Customer accesses the Movie Ticket Booking System through the Internet. Any customer communication with the system is through email. The Admin accesses the entire system directly.

Functional Requirement:

This section outlines the use cases for each of the active Customers separately. The customer is the main actor in this system.

Customer Use Cases:

Customer Use Case 1

Use case: Registration

Brief Description:

The Customer registers in the Movie Ticket Booking System.

Initial Step-By-Step Description

Before this use case can be initiated, the Customer has already connected to the Movie Ticket Booking System.

- 1. The Customer registers with his/her details in the Movie Ticket Booking System.
- 2. The System uses the send to HTML tag to bring up the user's email system.

3. The System generates and sends an email acknowledgement.

Customer Use Case 2

Use case: Sign-In

Brief Description

The Customer accesses the system to sign-in to his/her account.

Initial Step-By-Step Description

Before this use case can be initiated, the Customer has already connected to the Movie Ticket Booking System.

- 1. The Customer is signed-in to his/her account in the Movie Ticket Booking System.
- 2. The Customer then proceeds to edit his/her profile or book a movie.

Customer Use Case 3

Use case: Edit Profile

Brief Description

The Customer accesses the system to edit his/her profile.

Initial Step-By-Step Description

Before this use case can be initiated, the Customer has already connected to the Movie Ticket Booking System & signed-in to his/her account.

- 1. The Customer is signed-in to his/her account in the Movie Ticket Booking System.
- 2. The Customer then proceeds to edit his/her profile.

Customer Use Case 4

Use case: Search Movie

Brief Description

The Customer accesses the Movie Ticket Booking System, searches for a movie.

Initial Step-By-Step Description

Before this use case can be initiated, the Customer has already accessed the Movie Ticket Booking System.

- 1. The Customer chooses to search by movie name, genre, timing or date.
- 2. The system displays the choices to the Customer.
- 3. The Customer selects the movie desired.
- 4. The system presents the abstract of the movie to the Customer.
- 5. The Customer chooses to book the movie

The Ticket Booking Process state-transition summarizes the use cases listed below. A Customer selects a movie. Then Customer decides the time, seats, offers and reviews it. If ticket is booked, possibly after a revision, the System sends an acknowledgement E-mail to the Customer. The customer can possibly cancel his/her booking 1 hour before the movie timing.

Customer Use Case 5

Use case: Book Movie

The Customer books a movie.

Initial Step-By-Step Description

Before this use case can be initiated, the Author has already connected to the Movie Ticket Booking System and has searched for a movie.

- 1. The Author chooses the Book Movie button.
- 2. The System uses the sendto HTML tag to bring up the user's email system.
- 3. The System generates and sends an email acknowledgement.

Customer Use Case 6

Use case: Make Payment

Brief Description

The Customer proceeds to payment for his/her booking.

Initial Step-By-Step Description

Before this use case can be initiated, the Customer has already connected to the Movie Ticket Booking System.

- 1. The Customer chooses the Make Payment button.
- 2. The Customer then is allowed to make his payment via various methods (Net banking, Credit Card, Debit Card)
- 3. The System uses the sendto HTML tag to bring up the user's email system.
- 4. The System generates and sends an email acknowledgement.

Admin Use Cases

The Admin has the following sets of use cases:

Use case: Upload Movies

Brief Description

The Admin can upload the list of movies.

Initial Step-By-Step Description

Before this use case can be initiated, the Admin has already accessed the main page of the Movie Ticket Booking System.

- 1. The Admin selects to Upload Movies.
- 2. The System presents a form for uploading movies.
- 3. The Admin fills in the information and submits the form.

Use case: Update Seats

Brief Description

The Admin can update the seats for the respective movies.

Initial Step-By-Step Description

Before this use case can be initiated, the Admin has already accessed the main page of the Movie Ticket Booking System.

- 1. The Admin selects to Update Seats.
- 2. The system presents a choice of adding or updating.
- 3. The Admin chooses to update for the respective movie.
- 4. If the Admin is updating the seats, the system presents a grid with the information about the movies.
- 5. The Admin fills in the information and submits the form.

Use case: View Payments

Brief Description

The Admin views the payments made by the customer.

Initial Step-By-Step Description

Before this use case can be initiated, the Admin has already accessed the main page of the Movie Ticket Booking System.

- 1. The Admin selects to View Payments.
- 2. The system presents s list of customers.
- 3. The system presents the payment about the chosen customer.

User Characteristics

The Customer is expected to be Internet literate and be able to use a search engine. The main screen of the Movie Ticket Booking System will have the search function.

The Admin is expected to be Windows literate and to be able to use button, pull-down menus, and similar tools.

Non-Functional Requirements

The Movie Ticket Booking System will be on a server with high speed Internet capability. The software developed here assumes the use of a tool such as Tomcat for connection between the Web pages and the database.

3.1 Proposed System and Scope:

We propose a system which is more reliable, entertaining and easy than the present system. Our solution targets those users who do not have spare time to stand in queue for booking tickets.

We propose an easy way of ordering and paying for the tickets without any delays and inconvenience. Book tickets to people who, without his physical presence, are assured of a ticket before going to the theatre. Customers who book tickets on their mobile phones, an instant messaging (m-ticket) will receive. By splashing the M-ticket at the counter of the multiplex, the client can receive physical tickets. No longer issue tickets to staff at the multiplex complex manual ticket availability and tracking system is needed. Ticket information can be accessed at any time for verification, which is safely stored in a database.

Scope of project:

This software system will be a Movie Ticket Booking System. This system will be designed to maximize the easiness of the customers to book tickets, which would otherwise have to be booked by standing in long queues at the theaters. More specifically, this system is designed to allow a customer to book and cancel his tickets at any time of the day. This software will inform the customer by sending an E-mail, confirming his booking/canceling of his tickets. Preformatted reply forms are used in every stage of the tickets' booked/cancelled progress through the system to provide a uniform review process. The system also contains a relational database containing a list of Movies, Timings, Seats, Prices and Bookings.

Definition:

SRS-Software Requirement Specification.

GUI-Graphical User Interface

SYSTEM MODULES:

The system after careful analysis has been identified to be presented with the following modules and roles.

The modules involved are:

- ➤ Admin
- ➤ Manager
- ➤ User

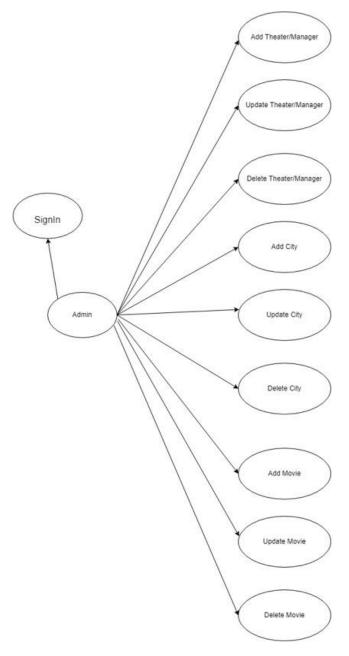
Admin:

The administrator is the super user of this application. Only admin have access to this admin page. Admin may be the owner of the system. The admin has all the information about all theatres, all movies and cities.

This module is divided into different sub modules.

- 1. Manage cities
- 2. Manage theatres
- 3. Manage movies

Admin:



Admin Use case diagram

➤ Add City:

 Admin can add a city to the System, the cities can be from any state from any location in Maharashtra. Admin can add any number of cities available with all the information.

➤ Update City:

Admin can update any of the available cities from the added list of cities in the system

➤ Delete City:

 Admin can delete any city that is present in the system if required, based on the problems that occurred.

➤ Add Theatre:

• Admin can add a theatre to the city available in the system, with theatre name, address, etc.

➤ Update Theatre:

 Admin can update a theatre available in the system as per the changes to be made over the theatre.

➤ Delete Theatre:

• Admin can delete the theatre that is present in the system if required, based on the problem that occurred.

➤ Add Movie:

 Admin can add the Movie that is currently running in the theatres, with all the details of the movie like id, name, movie poster, gener, etc.

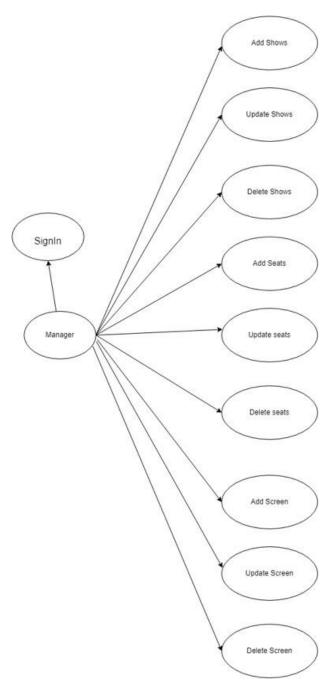
➤ Update Movie:

 Admin can update the movie by changing its poster or movie details etc.

➤ Delete Movie:

• Admin can delete the movie whenever not required for the further shows to carry on.

Manager:



Manager Use case diagram

> Update Shows

• Manager can edit the shows

> Add Shows

• Manager can add shows to the theatre

➤ Delete Shows

Manager can delete shows

➤ Add seats

• Manager can add seats to the shows

➤ Update seats

• Manager can update the seats as booked and unbooked.

➤ Delete seats

• Manager can remove seats from the shows

➤ Add Screen

Manager can add screen to the shows

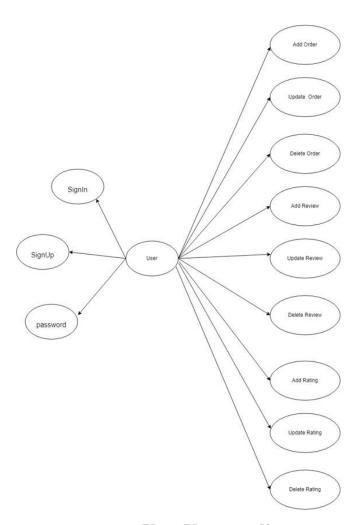
➤ Update Screen

• Manager can update the screen available.

➤ Delete Screen

• Manager can remove screen from the theatre.

User:



User Use case diagram

➤ User sign in, sign out, create account

• This feature is provided to the user so he can sign in, sign out and create an account for new customers.

> Add order

• Customer can add a movie to the order which he wants to book

> Payments

• Users have a privilege to his order he can see his order details.

> Add Review

Customer can add a review to the movie

➤ Update Review

• Customers can afterwards edit his review also

> Delete Review

• Customers can delete his reviews too.

> Add Ratings

• Customer can add ratings to the movie 0-5

➤ Update Rating

Customers can afterwards edit his ratings also

Delete Rating

• Customers can delete his ratings too.

4. PERFORMANCE REQUIREMENTS

Performance requirements in a dairy product services system typically include fast loading times, reliable and secure data storage, and the ability to handle a high volume of simultaneous users and orders. Other important factors may include user-friendly navigation and order interface, mobile compatibility, and integration with payment systems. Additionally, a good dairy product services system should also

have robust reporting and analytics capabilities to help the dairy services track revenue, and other important performance metrics.

4.1 Hardware and Software REQUIREMENTS. External Interface Requirements.

User Interfaces

The user interface for system shall be compatible to any type of web browser such as Mozilla Firefox, Google Chrome, and Microsoft EDGE, Opera, BING

Software Interfaces

	FRONT END	BACKEND	DATABASE
1	React JS REACT JS	Java EE J2EE	MySQL MySQL

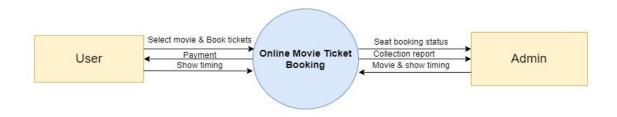
Hardware Interfaces

	Server Side						
Monitor	Processor	RAM	Disk Space				
Resolution: 1024x768	Intel or AMD 2GHZ OR HIGHER	4GB	10GB				
	Cli	ent Side					
Monitor	Processor	RAM	Disk Space				
Resolution: 1024x768	Intel or AMD 1GHZ DUAL CORE MIN	2 GB	128 GB				

5UML DIAGRAMS

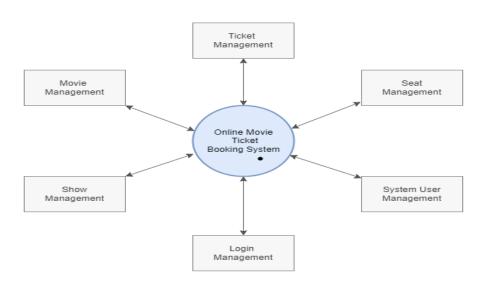
5.1Data Flow Diagram

Zeroth Level DFD



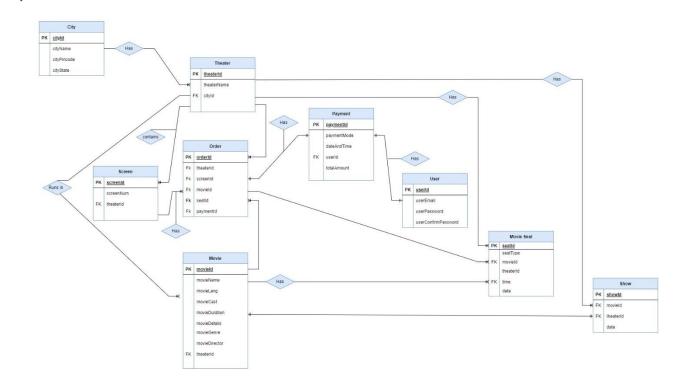
DFD for Online Movie Ticket Booking

First Level DFD



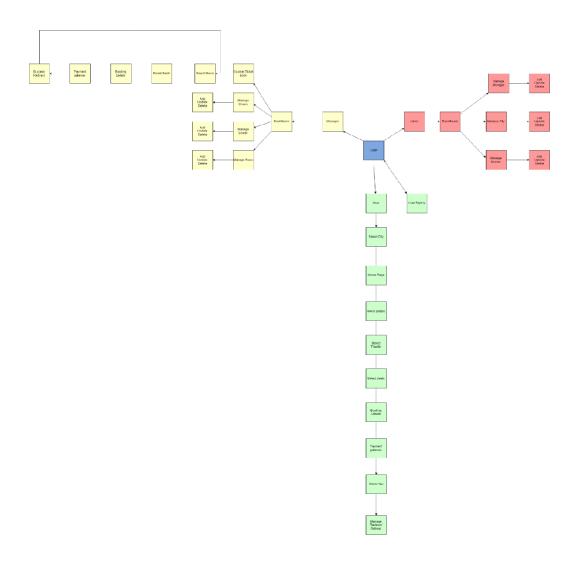
DFD for Online Movie Ticket Booking

6.1 Entity Relationship Diagram



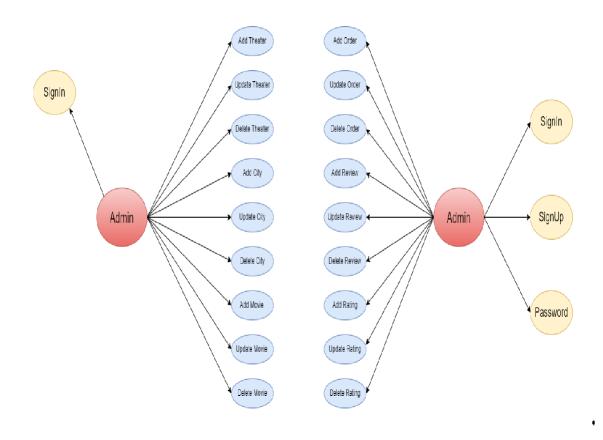
6.2 Flow Diagram

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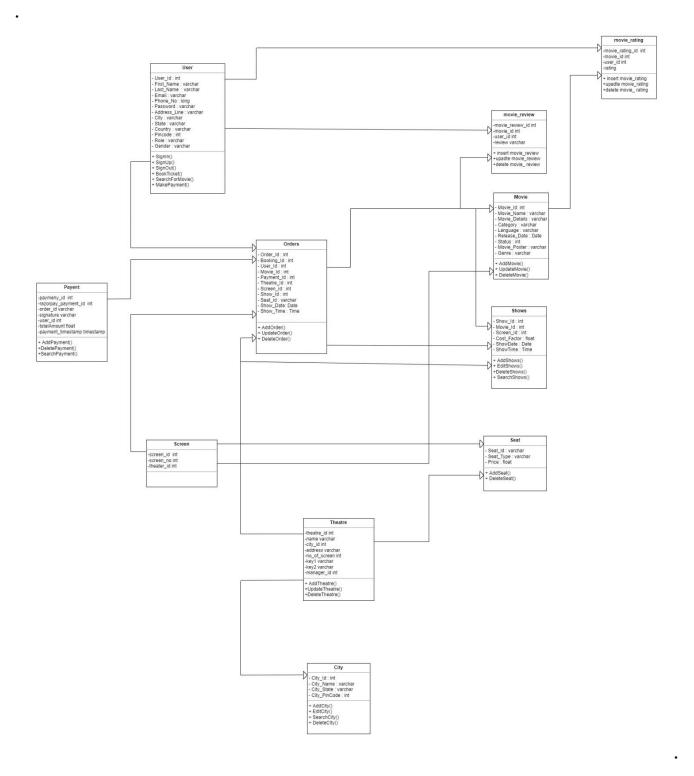


6.3 <u>Usecase Diagram</u>

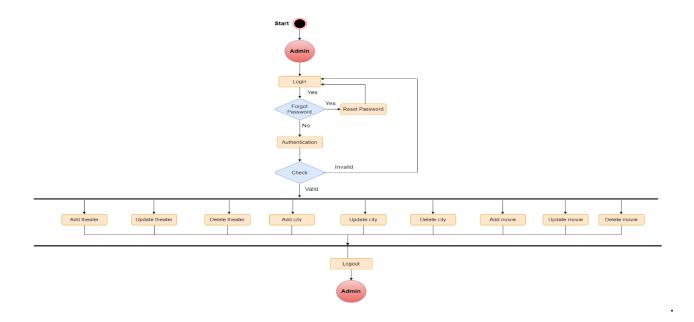
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6.4 Class Diagram



6.5 Activity Diagram



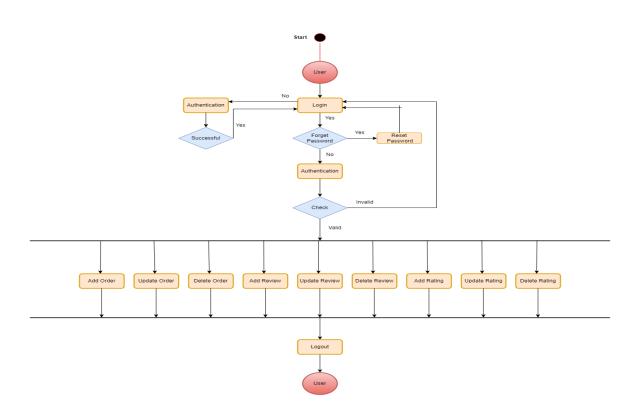


Table Structure

User table

Field	+	+	+	+	+
	Type	Null	Key	Default	Extra
user_id first_name last_name email phone_no password address_line city state country pincode role gender	int varchar(100) varchar(100) varchar(100) varchar(100) varchar(500) varchar(100) varchar(100) varchar(100) varchar(50) int varchar(20)	NO YES	PRI UNI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment

Movie table-

Field	Туре	Null	Key	Default	Extra
movie_id movie_name movie_details category language release_date status movie_poster genre	int varchar(100) varchar(200) varchar(100) varchar(100) date int varchar(5000) varchar(200)	NO YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment

Movie_rating table-

```
mysql> desc movie_rating;
                                Null |
                                         Key | Default
  Field
                       Туре
                                                            Extra
 movie_rating_id
movie_id
user_id
rating
                                                            auto_increment
                       int
                                 NO
                                         PRI
                                                NULL
                       int
                                 YES
                                                NULL
                                         MUL
                       int
                                 YES
                                         MUL
                                                NULL
                                 YES
                       float
                                                NULL
 rows in set (0.00 sec)
```

Movie_review table-

mysql> desc movie_review;								
Field	Туре	Null	Кеу	Default	Extra			
movie_reveiw_id movie_id user_id review	int int int varchar(1024)	NO YES YES YES	PRI MUL MUL	NULL NULL NULL NULL	auto_increment			
4 rows in set (0.01								

City table

mysql> desc city;								
Field	Туре	Null	Key	Default	Extra			
city_id city_name city_state city_pincode	int varchar(100) varchar(100) int	NO YES YES YES	PRI	NULL NULL NULL NULL	auto_increment			
++++++++								

Theatre table-

mysql> desc theatre;							
Field	Туре	Nu11	Кеу	Default	Extra		
theatre_id name city_id address no_of_screen key1 key2 manager_id	int varchar(50) int varchar(200) int varchar(500) varchar(500) int	NO YES YES YES YES YES YES YES	PRI MUL MUL	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment		
8 rows in set (0.00 sec)	,	,	,	,		

Screen table-

```
mysql> desc screen;
                      Null
  Field
               Type
                              Key
                                     Default
                                                Extra
                                                auto_increment
  screen_id
                int
                       NO
                               PRI
                                     NULL
  screen_no
theatre_id
                int
                       YES
                                     NULL
               int
                       YES
                               MUL
                                     NULL
 rows in set (0.00 sec)
```

Shows table-

mysql> desc shows;						
Field	Туре	Null	Кеу	Default	Extra	
show_id movie_id screen_id cost_factor showdate showtime	int int int float date time	NO YES YES YES YES YES	PRI MUL MUL	NULL NULL NULL NULL NULL NULL	auto_increment	
6 rows in set	(0.36 sed	·)			-	

Seat table-

mysql> desc s	seat;	L			L		
Field	Туре	Null	Key	Default	Extra		
seat_id seat_type price	varchar(5) varchar(25) float	NO YES YES	PRI	NULL NULL NULL			
+++++++++							

Seat_booking table-

mysql> desc seat_booking;					
Field	Туре	Null	Key	Default	Extra
booking_id show_id seat_id user_id booking_date created_timestamp order_id payment_status	int int varchar(5) int date timestamp varchar(500)	NO YES YES YES YES YES YES YES YES YES	PRI MUL MUL MUL	NULL NULL NULL NULL NULL CURRENT_TIMESTAMP NULL NULL	auto_increment DEFAULT_GENERATED
*					

7. Test Case

Test Case	Test Case	Test Case	Actual	Expected	Test case
ID		I/P	Result	Result	criteria(P/F)
001	Admin enter the correct username or password click on submit button	Username or password	Accept	Accept	P
001	Admin enter the wrong username or password click on submit button	Username or password	Error come	Accept	P
002	Manager enter the correct username or password click on submit button	Username or password	Accept	Accept	P
002	Manager enter the wrong username or password	Username or password	Error come	Accept	P

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	click on submit button				
003	User enter the correct username or password click on submit button	Username or password	Accept	Accept	P
003	User enter the wrong username or password click on submit button	Username or password	Error come	Accept	P
004	User enter the wrong username or password click on submit button	Username or password	Accept	Accept	Р

Login Test Cases Registration Test Cases

Test Case	Test Case	Test Case I/P	Actual	Expected	Test case
ID			Result	Result	criteria(P/F)
001	Enter the number in username, middle name, last name field	Number	Error Comes	Error Should Comes	P
001	Enter the character in username, middle name, last name field	Character	Accept	Accept	p
002	Enter the invalid email id format in email id field	ppgmail,com	Error	Error Should Comes	P
002	Enter the valid email id format in email id field	pp@gmail.com	Accept	Accept	P
003	Enter the invalid digit	99999	Error comes	Error Should Comes	Р

no in phone no field 003 Enter the 10 999999999 Accept Accept P digit no in phone no field Enter the 8 006 P 4444444 Accept Accept digit password

Logout Test Cases

Test case	Test case	Test case	Actual	Expected	Test cases
ID		I/P	Result	Result	criteria(P/F)
001	Logout	User exit	Session	Logout	P
			exit	successfully	

GUI Testing

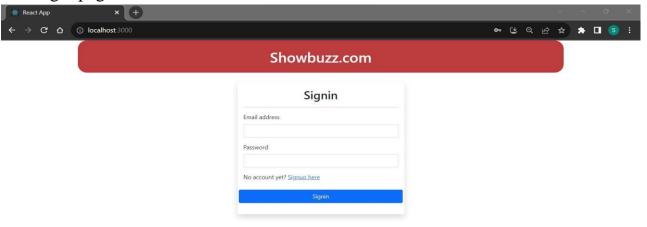
Test case	Login Screen- Sign up
Objective	Click on sign up button then check all required/ mandatory fields
	with leaving all fields blank
Expected Result	All required/ mandatory fields should display with symbol "*".
	Instruction line "* field(s) are mandatory" should be displayed

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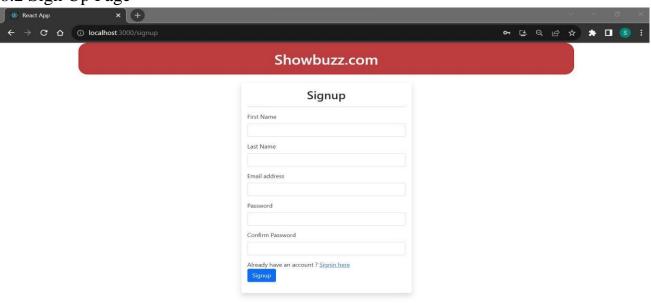
Test case	Create a Password >>Text Box
	Confirm Password >>Text Box
Objective	Check the validation message for Password and Confirm Password field
Expected Result	Correct validation message should be displayed accordingly or "Password and confirm password should be same" in place of "Password mismatch".

8. Screenshots

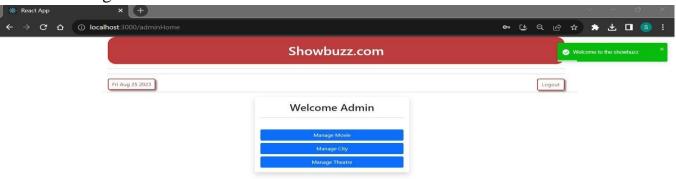
8.1 Login page



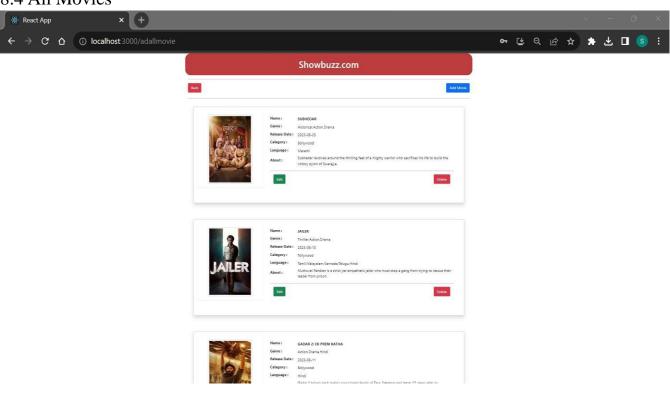
8.2 Sign Up Page

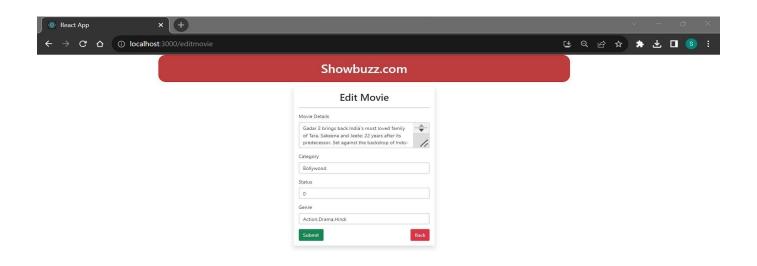


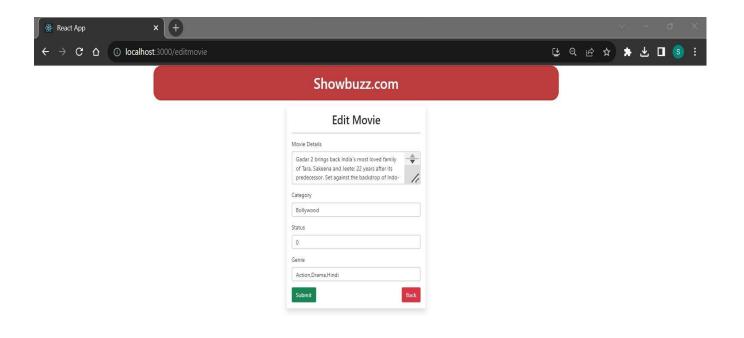
8.3 Admin Page

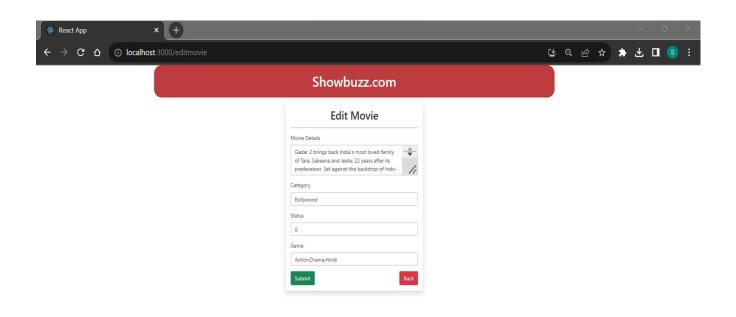


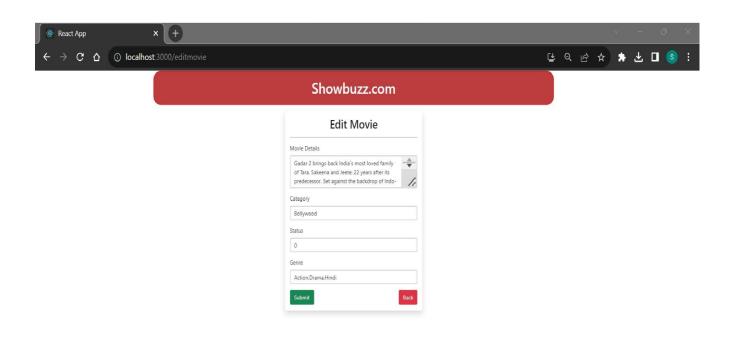
8.4 All Movies

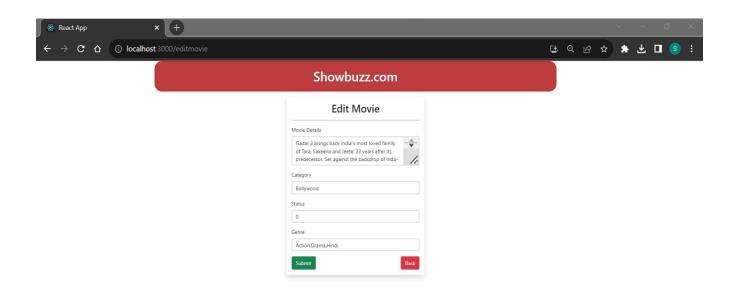


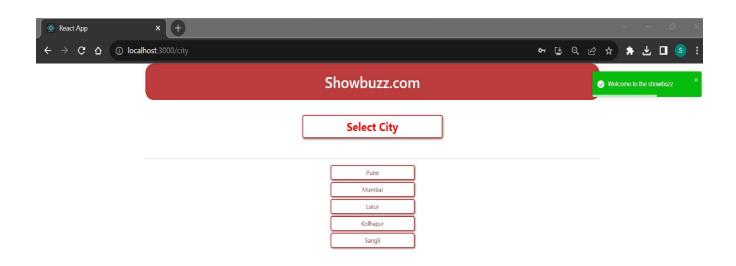












9 Refrences

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