

A Mini Project Report on
“Movie Ticket Booking System”

*Submitted in partial fulfillment of the requirement for the Database
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in
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Submitted to

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UNIVERSITY**

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CERTIFICATE

Certified that the mini project work entitled “Movie Ticket Booking System” is a bonafide work carried out by, Mr. Praveen U Siddanagoudar, Ms. Priyanaka Managavi, Mr. Raavi sai, Ms. Sahana S Rayabhattanavar bearing USN numbers 2KE19CS068, 2KE19CS073, 2KE19CS075, 2KE19CS082 respectively in partial fulfillment for the award of degree of Bachelor of Engineering in V Semester, Computer Science and Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-22. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the said degree.

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ABSTRACT

The purpose of Movie Ticket Booking System is to automate the existing manual system by the help of computerized equipment and fully-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Movie Ticket Booking System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather than to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same.

The primary purpose of making the online cinema 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 Cinema 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. Basically, the project describes how to manage for good performance and better services for the clients.

Table of contents

Chapter No.	Chapter Name	Page no.
1	Introduction 1.1 Introduction 1.2 Functional components of the project 1.3 Literature Survey 1.4 Project overview and summary 1.5 Scope of the project 1.6 Interface Enhancement 1.7 Overview of Project 1.8 Existing System 1.9 Objective of Project	
2	System requirements and Specification 2.1 Software Requirements 2.2 DBMS Concepts 2.3 The SQL Language 2.4 E-R Diagram 2.5 Schema Diagram 2.6 Feasibility Analysis 2.7 System Analysis 2.8 Data Flow Diagram	
3	Implementation 3.1 Implementation Methodology 3.2 Project Scheduling 3.3 Modules of Movie Ticket Booking System 3.4 Objectives and Functionalities 3.5 Working Modules 3.6 Sequence Diagram for Movie Database	

DBMS Mini Project Report on “Movies Ticket Booking System”

- 3.7 Actors Diagram
- 3.8 Use Case Diagram
- 3.9 Snapshots
- 4 Results and Discussion
 - 4.1 Test Cases
 - 4.2 Data Validation
- 5 Future Scopes and Conclusion
 - 5.1 Future Scope
 - 5.2 Conclusion

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION TO MOVIE TICKET BOOKING

This project is aimed at developing a ticket reservation system for Cinema Halls. The Ticket Reservation System is an Internet based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will automate the reservation of tickets and Enquiries about availability of the tickets. This application includes email confirmation for the tickets.

This is one of the important features of our system. By examining the existing system on the Internet, we found that there is no such function available at this moment, so we try to include it in our system. To protect the benefit of the cinema, we will not give the money back to the customer, instead the customer has to visit cinema hall for further process. So, the customer can get the money from the cinema hall. Hence both the customer and the cinema can sort out further matter

1.2 Functional components of the project:

Following is a list of functionalities of the system. More functionality that you find appropriate can be added to this list. And, in places where the description of functionality is not adequate, you can make appropriate assumptions and proceed.

The Cinema Hall has a web site and any user of Internet can access this. The cinema hall is a multiplex which has 2 or more screens. Each screen has 3 different types of seats/classes viz Platinum, Gold & Silver depending on the rate of the class/seat, only 100% of the seats are available for online reservation.

1. A person should be able to email.
 - Choose city where he/she want to see the Movie.
 - Choose the film which he/she wish to book tickets.
 - Query the films on show for one weeks
 - Able to choose the seats which are available for a certain class.
 - Can select seats from different classes as well for same show and screen also.
 - Give details about the credit card or debit card through which he is doing payment.
 - Able collect tickets at the counter presenting the unique id send to him/her through
2. A mail should be sent to the concerned person about the confirmation of the ticket to the specified email address.
3. The system should automatically show the fare for the corresponding shows and amount of money needs to be pay for selected seats.

1.3 LITERATURE SURVEY

We did research of various available movie booking web sites and application. While surveying we mainly focused on the online systems of countries like USA, England, Dubai, Singapore and India. While searching and researching we focused basically on the platform and framework in which the application has been developed. Also, the various features related to other systems were analyzed to get an idea of what are the features which has already been implemented and what are the features that can be added to the system.

From the past 18 years in South Africa a seed of an idea of book my show was planted. The site was started in 1999, and since then it is one of the most famous online movie booking system. The web site mostly gained its popularity between the years 2006-2010. Book My Show was awarded 'The Hottest Company of the Year2011-12 and "The Company to watch out for at the prestigious CNBC Young Turks Award. In May 2016 BookMyShow awarded 'Best Omni-channel Customer Experience Brand' at the One Direct Quest Customer Experience (QuestCX) Awards. The web site provides detailed information regarding movies. There are columns in which reviews can be added and published on the web page. These sorts of features are almost common in all the web sites available. User login and sign up are the other features with the help of which user can have authorized access to the web site. Seat confirmation and payment can easily be done using online payment portal which is further connected to banking system. There is also division in the web site for different cities so that it becomes quite easy to search theatre in a particular area. With the increasing online system one more thing has also become popular that is offers and discounts. The web site also provides various offers applied through coupon code. To increase the traffic of application mobile coupon codes has been added much more. Trailer videos, games, offers and events are the other additional modules of the web site to increase the functionality. The site has 34 million apps downloaded till date, 10 million tickets sold per month, and 3billion page view per month.

Cinema Online is the outcome of two enterprising individuals who have an ambition of revolutionizing the Singapore movie scene. The website www.cinema.com.my first saw the light of a screen in October 1998. Since then, it has grown to include thousands of pages worth of content. You can browse and find all the latest happenings of movies, be they local or international. News, reviews, previews, and contests are amongst its highlights. All this from the humble beginnings of Cinema Show times, now encompassing almost ALL Malaysian cinemas, and as always, updated daily for your convenience. It includes home, movies, charts, features, trailers and show times.

So, while doing research on these systems it has been observed that there are lots of bugs in the online movie system. The major issue is speed, and it is almost with all the systems. Due to increasing traffic and demand of online system the system is sometimes not able to bear the load. Often at the time of release of some famous and highly rated movies the server gets down or payment portal fails. Most of the time the amount gets reduced from the users account and payment is not successful, also apart from that there is also a bigger issue of fake review. There are agents of the entire production house which are in existence. They have their social networking cell which works to boost up the review and rating of a particular movie. Fake coupon code and café booking of tickets has also increased black marketing in this field. One more pattern that has been observed in those systems from foreign countries like Dubai, Singapore and USA are much more reliable than the system of Asian countries. To remove this, proposed alternative is using NODE JS and Mongo DB connectivity which is able to increase the speed of system by almost thirty times. Detailed class diagram and software information has been discussed in the proposed methodology section of the research paper. To reduce any kind of fake reviews and rating authorized users will only be able to post the rating and review of any movie will be first checked by the editorial team and then it will be posted on the web site.

1.4 Project Overview and Summary

1.4.1 Purpose of Project:

The main purpose of our ticket booking system Is to provide another way for the customer to buy cinema ticket. It is an automatic system. After inserting the data to database, staff needs not to do with the order receive through the system. In fact, there is similar system on the Internet, but there is no refund method found in the existing system

The goals of our system are:

1. To provide anytime anyplace service for the customer
2. To promote the film on the Internet
3. To increase the profit
4. To obtain statistic information from the booking record

1.5 Scope of Project:

1.5.1 General Requirements (functional):

1. The web page (e.g., the time table page) will be generated automatically according to the data in database.
2. A way in which the cinema hall admin (staff) can login to the system to perform different operation.
3. A way in which the customer can modify its own data (booked seats before payment).
4. A way in which the customer can commit order by just clicking the seat (which is shown on the screen) and insert some card data.
5. A way in which the customer can heck the ticket record (seat numbers) selected by him/her at the time of payment.
6. A way in which the staff can use the system to add data(e.g. film description) to the database.
7. The system can verify the data before transaction. The system can generate the time table automatically as the time table is set by the staff. (Operating mode for the staff to insert data).
8. The system can generate some statistic information according booking and ticket selling record for the cinema hall per Movie based.

1.6 Interface Enhancements:

Our web-based system needs about more than 30 interfaces to handle all the functions

- Staff: One of the main purpose of our system is to reduce the number of staff in the ticket box. So, most of the job is done by the system automatically, Staff only need to Insert new film data and deal with the refund part.
- Customer: To make the system more user-friendly, customer need not to enter lots of data. An order will be committed step by step with guideline (request about 7 steps for an order).

1.7 Overview of project

Our Ticket Reservation for Cinema Halls is a web-based system. The customers can buy ticket online and cancel the seat at a suitable time (2 days before the show to 1 hour before the show) by visiting the cinema hall. To enhance the refund function, all the customers have to present the unique id provided at the time of booking seats online.

Staff can use the system to insert and delete data (e.g., film description, time table) which will update the webpage (webpage are dynamic page, changing according to the data in database). Also, staff can check the statistic information from the system.

1.8 Existing System

In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

- Lack of security of data.
- More man power.
- Time consuming.
- Consumes large volume of paper work.
- Needs manual calculations,
- No direct role for the higher officials

1.8.1 Proposed System

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

- Security of data.
- Ensure data accuracy's,
- Proper control of the higher officials,
- Minimize manual data entry.
- Minimum time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum time required.

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 is assured of a ticket before going to the theater.

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.

1.8.2 Need for computerization

After understanding the existing system and understanding the need for developing a new system different people involved in the related activities have been consulted. The data needed for the study has been collected from company records.

The computerization of this system would avoid the wrong interpretation and bad calculation of data. The system helps the user to see any documents, source code, tasks, activities, team information with details at the click of a button. The record data is maintained and backed up such a way that data is not loss. The speed of the system could also increase.

1.9 Objective of Project

The project “Online Movie Ticket Booking System” is dedicated to the general requirements of multiplex theatres. The main objective of the project is to create an Online Movie Ticket Booking processing that allows customers to know about new movies, their schedules, cinema locations, class and ticket price etc. In the booking process when customer selects his city then cinemas of that city are filtered. In next step he/she selects his desired cinema where he/she wish to see movie, then selects movie and other details like show date, show time, class and no of tickets. Based on given parameters a graphical layout of seat status is visible to the customer. Now customer can select his desired seat location and number of seats. The Administrator will be able to see all booked and cancel tickets.

The main objectives of “Online Movie Ticket Booking System” project are as follows:

- Facility to store the information of new customer, different types of movie show timing, ticket rates of different types on show class etc.
- Interest to develop a good user-friendly website with many online transactions using a database
- Facility to generate different reports, which are helpful for the management in decision making.
- Facility to change user's password account

1.9.1 Scope of the project Movie Ticket Booking System

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Movie Ticket Booking System. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e., we have tried to computerize various processes of Movie Ticket Booking System.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.
- It satisfies the user requirement
- Be easy to understand by the user and operator
- Be easy to operate
- Have a good user interface
- Be expandable
- Delivered on schedule within the budget

CHAPTER 2

SYSTEM REQUIREMENTS SPECIFICATION

Software requirements

- OPERATING PLATFORM: WINDOWS /MAC
- FRONT END:HTML, CSS, JAVASCRIPT
- BANKEND: PHP
- DATABASE: MYSQL

Hardware requirements:

- RAM: 128 MB RAM
- HARD DISK: PC with 20 GB hard-disk

2.1 SELECTED SOFTWARE

2.1.1 HTML

To publish information for global distribution, one needs a universally-understood language, a kind of publishing mother tongue that all computers may potentially understand. The publishing language used by the World Wide Web is HTML (Hyper Text Markup Language)

HTML Gives Authors the Means To

1. Publish online documents with headings, text, tables, list, photos etc.
2. Retrieve online information via hypertext links, at the click of a button
3. Design forms for conducting transactions with remote services, for use in searching information, making reservation, ordering products etc.;
4. Includes spreadsheets, video clips, sound clips, and other applications directly in the documents.

2.1.2 JAVA SCRIPT

JavaScript, originally supported by Netscape Navigator, is the most popular Web scripting language today. JavaScript lets you embed programs right in your Web pages and run these programs using the Web browser. You place these programs in a <SCRIPT> element. If you want the script to write directly to a Web page, place it in <BODY> element

Java Script is Object Oriented Language. It comes with number of predefined objects

2.1.3 CSS

CSS stands for Cascading Style Sheets. It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provides an additional feature to HTML. It is generally used with HTML to change the style of web pages and user interfaces.

CSS is used along with HTML and JavaScript in most websites to create user interfaces for web applications and user interfaces for many mobile applications.

2.1.4 CSS FUNCTIONALITIES

We can add new looks to your old HTML documents.

We can completely change the look of your website with only a few changes in CSS code.

2.1.5 PHP

PHP is an open-source, interpreted, and object-oriented scripting language that can be executed at the server-side. PHP is well suited for web development.

Therefore, it is used to develop web applications (an application that executes on the server and generates the dynamic page.).

PHP was created by **Rasmus Lerdorf** in **1994** but appeared in the market in **1995**. **PHP 7.4.0** is the latest version of PHP, which was released on **28 November**. Some important points need to be noticed about PHP are as followed:

1. PHP stands for Hypertext Preprocessor.
2. PHP is an interpreted language, i.e., there is no need for compilation.
3. PHP is faster than other scripting languages, for example, ASP and JSP.
4. PHP is a server-side scripting language, which is used to manage the dynamic content of the website.
5. PHP can be embedded into HTML.
6. PHP is an object-oriented language.
7. PHP is an open-source scripting language.
8. PHP is simple and easy to learn language.

2.2 DBMS CONCEPTS

2.2.1 DATA ABSTRACTION:

A major purpose of a database system is to provide users with an abstract view of the data. This system hides certain details of how the data is stored and maintained. However, in order for the system to be usable, data must be retrieved efficiently.

The efficiency led to the design of complex data structure for the representation of data in the database. Certain complexity must be hidden from the database system users. This accomplished by defining several levels of abstraction at which the database may be viewed.

2.2.2 CLASSIFICATION OF DATABASE:

There are 3 types of database approaches given below

- Hierarchical Database: In this type of model data is represented in simple tree structured. The record at the top of three is known as root, the root may have any number of dependents
- Network Database: In a Network database, data is represented by Network structure.
- In this approach record occurrence can have any number of superiors as well as any number of immediate dependents thus allow many to many correspondences directly than a hierarchical approach.
- Relational Database: The Relational model represents data and relationships among data by a collection of tables each of which has a number of columns with unique names.

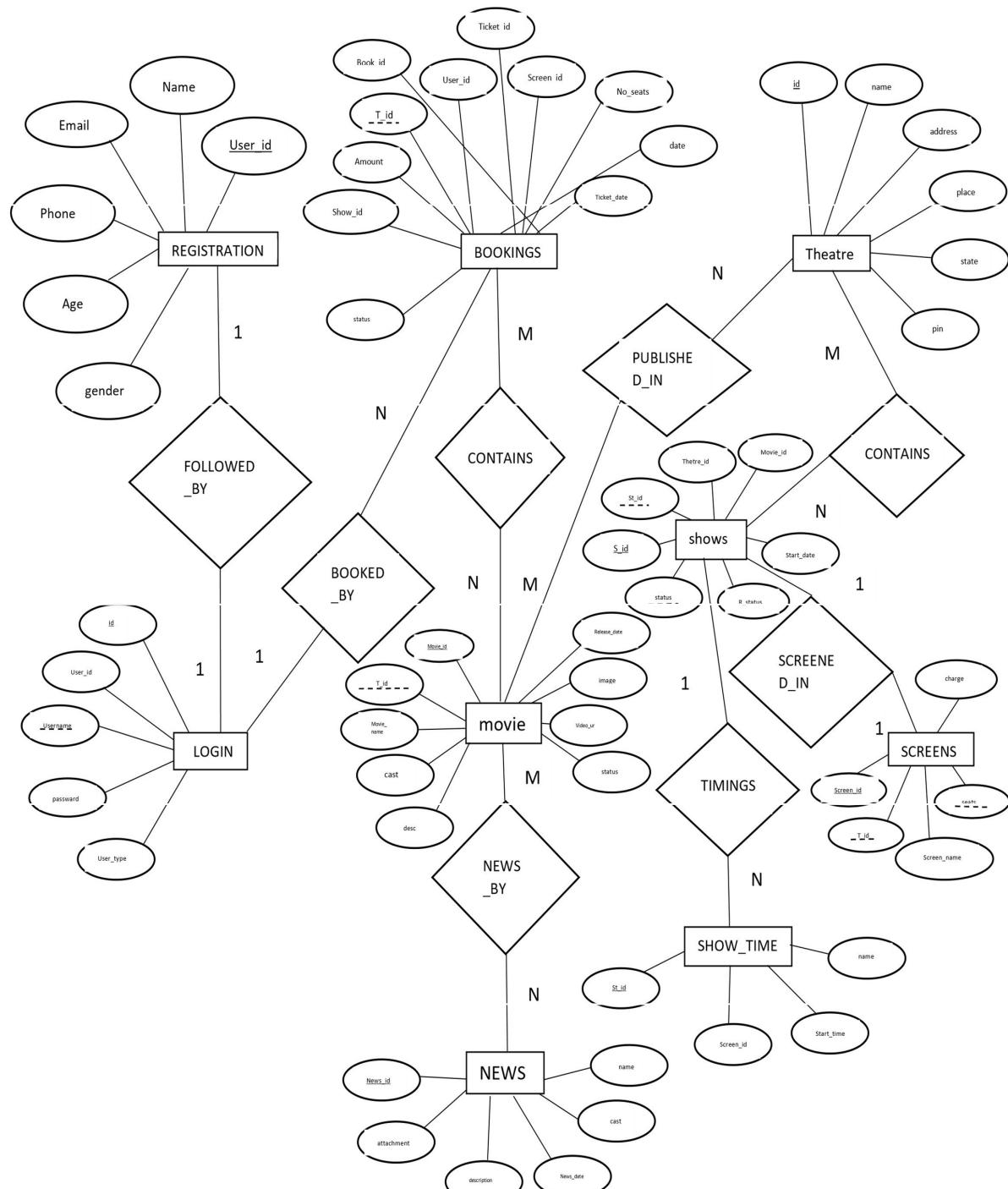
2.3 THE SQL LANGUAGE:

SQL is a language for relational database. SQL is a non-procedural i.e., when we use SQL we specify what we want to be done not how to do it.

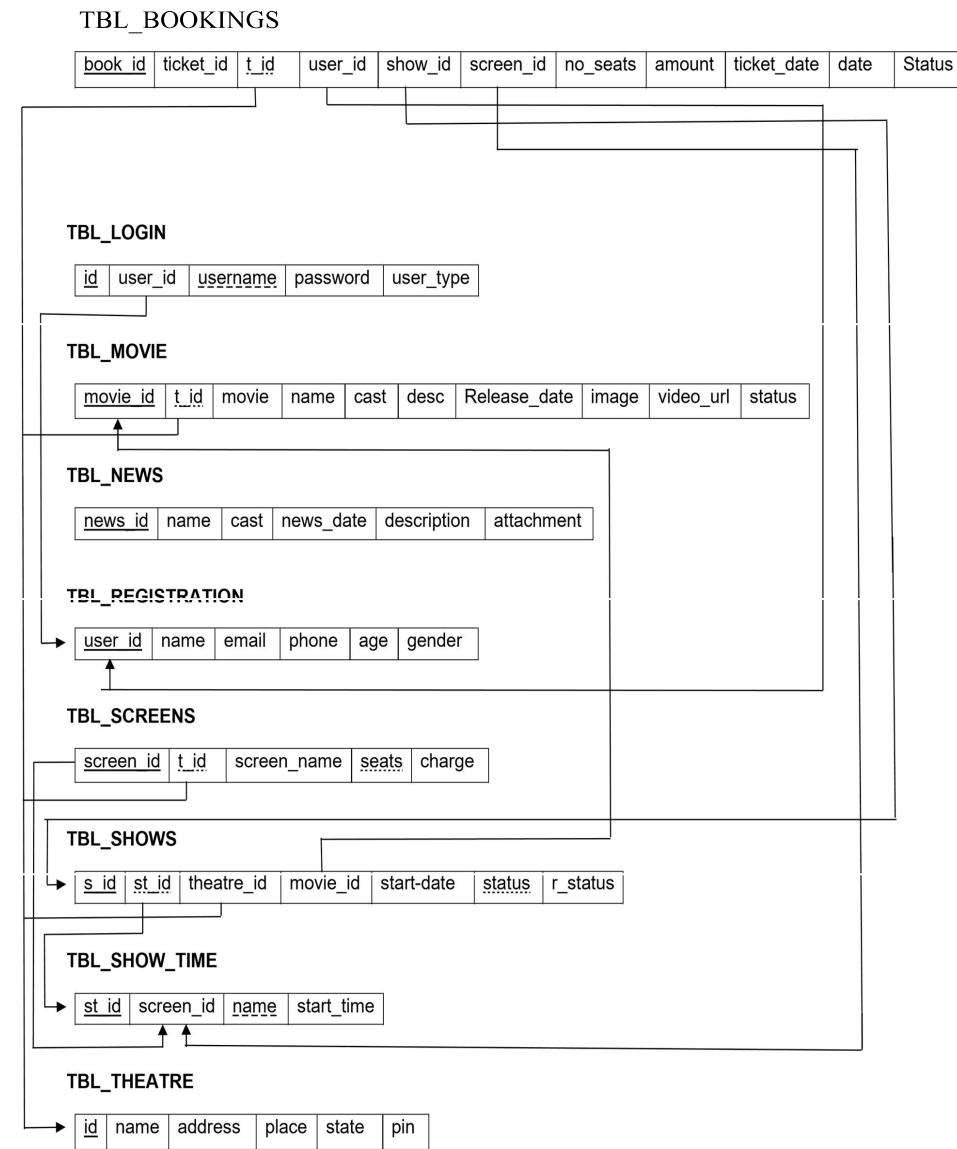
Features Of SQL

- SQL is an interactive query language.
- SQL is a database administration language.
- SQL is a database programming language.
- SQL is a client/server language.
- SQL is a distributed database language.
- SQL is a database gateway language.

ER DIAGRAM



SCHEMA DIAGRAM



2.6 FEASIBILITY ANALYSIS

Feasibility study is done so that an ill-conceived system is recognized early in definition phase. During system engineering, however, we concentrate our attention on four primary areas of interest. This phase is really important as before starting with the real work of building the system it was very important to find out whether the idea thought is possible or not.

- Economic Feasibility: An evaluation of development cost weighted against the ultimate income or benefit derived from the developed system.
- Technical Feasibility: A study of function, performance and constraints that may affect the ability to achieve an acceptable system.
- Operational Feasibility: A study about the operational aspects of the system.

2.6.1 ECONOMIC ANALYSIS

Among the most important information contained in feasibility study is Cost Benefit Analysis and assessment of the economic justification for a computer-based system project. Cost Benefit Analysis delineates costs for the project development and weighs them against tangible and intangible benefits of a system. Cost Benefits Analysis is complicated by the criteria that vary with the characteristics of the system to be developed, the relative size of the project and the expected return on investment desired as part of company's strategic plan.

In addition, many benefits derived from a computer-based system are intangible (e.g. better design quality through iterative optimization, increased customer satisfaction through programmable control etc. As this is an in-house project for the company, to be used for its own convenience and also it is not that big a project. So, neither it requires a huge amount of money nor any costly tools or infrastructure need to be set up for it.

According to the computerized system we propose, the costs can be broken down to two categories:

1. Costs associated with the development of the system.
2. Costs associated with operating the system.

2.6.2 TECHNICAL ANALYSIS

During technical analysis, the technical merits of the system are studied and at the same time collecting additional information about performance, reliability, maintainability and predictability. Technical analysis begins with an assessment of the technical viability of the proposed system.

- What technologies are required to accomplish system function and performance?
- What new materials, methods, algorithms or processes are required and what is their development risk?
- How will these obtained from technical analysis form the basis for another go/no-go decision on the test system.

2.6.3 Operational Feasibility

The project is operationally feasible. This project is being made for the convenience of the patients and doctors only. This system will greatly reduce a huge burden of doctors. So because of the above stated advantages the users of the system will not be reluctant at all. A proposed system is beneficial only if it can be turned into an information system that will meet the operational requirements of an organization. A system often fails if it does not fit within existing operations and if users resist the change.

2.6 SYSTEM ANALYSIS

2.6.1 INTRODUCTION:

System analysis is the process of studying the business processes and procedures, generally referred to as business systems, to see how they can operate and whether improvement is needed. System analysis may also involve examining data movement and storage, machines and technology used in the system, programs that control the machines, people providing inputs, doing the processing and receiving the outputs.

2.6.2 INVESTIGATION PHASE:

The investigation phase is also known as the fact-finding stage or the analysis of the current system. This is a detailed study conducted with the purpose of wanting to fully understand the existing system and to identify the basic information requirements. Various techniques may be used in fact-finding and all fact obtained must be recorded. A thorough investigation was done in every effected aspect when determining whether the purposed system is feasible enough to be implemented.

2.6.3 INVESTIGATION:

As it was essential for us to find out more about the present system, we used the following methods to gather the information: -

1. Observation: - Necessary to see the way the system works first hand.
- 2 Document sampling: - These are all the documents that are used in the system. They are necessary to check all the data that enters and leaves the system.
- 3 Questionnaires: - These were conducted to get views of the other employees who are currently employed in the system.

2.7 ANALYSIS OF THE INVESTIGATION:

2.7.1 Strengths of the System

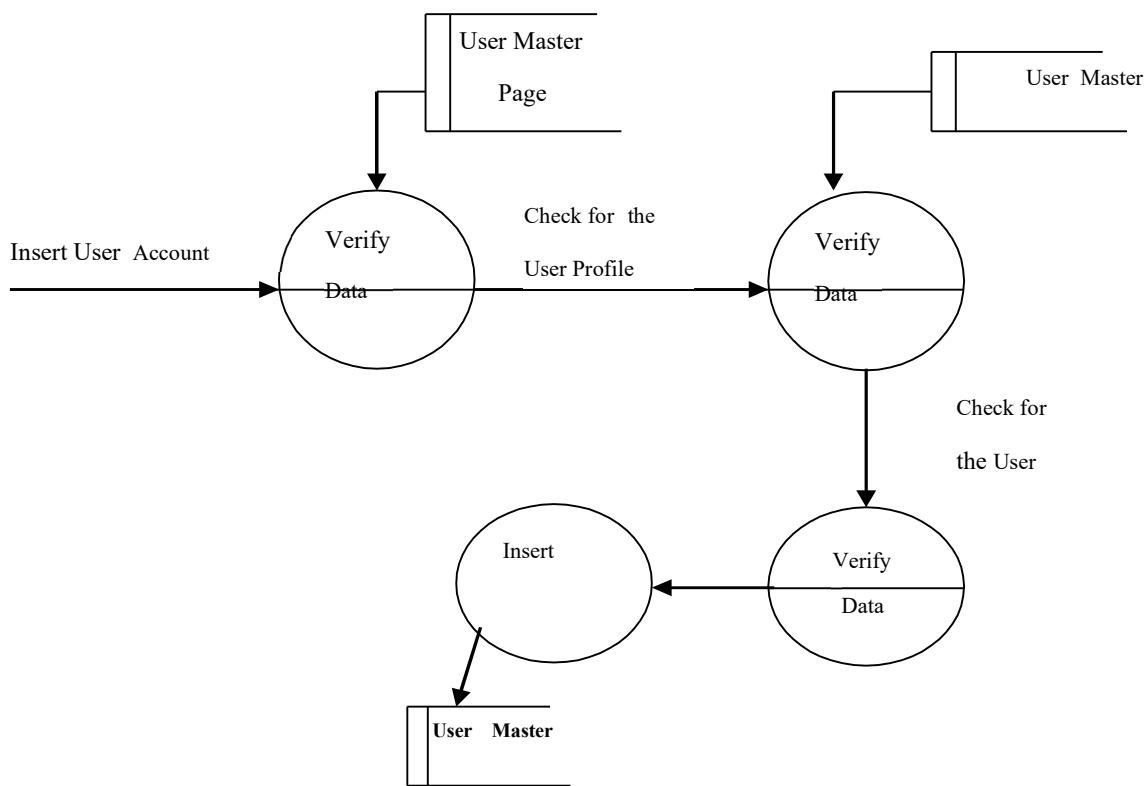
1. No complex equipment: - The equipment that is used is very simple and no special skills have to be mastered to be able to operate the system. Therefore no training is required for the employees.
2. Low cost: - There is little money spent in maintaining the present system other than buying the necessary office equipment and the ledgers

2.8 DATA FLOW DIAGRAM

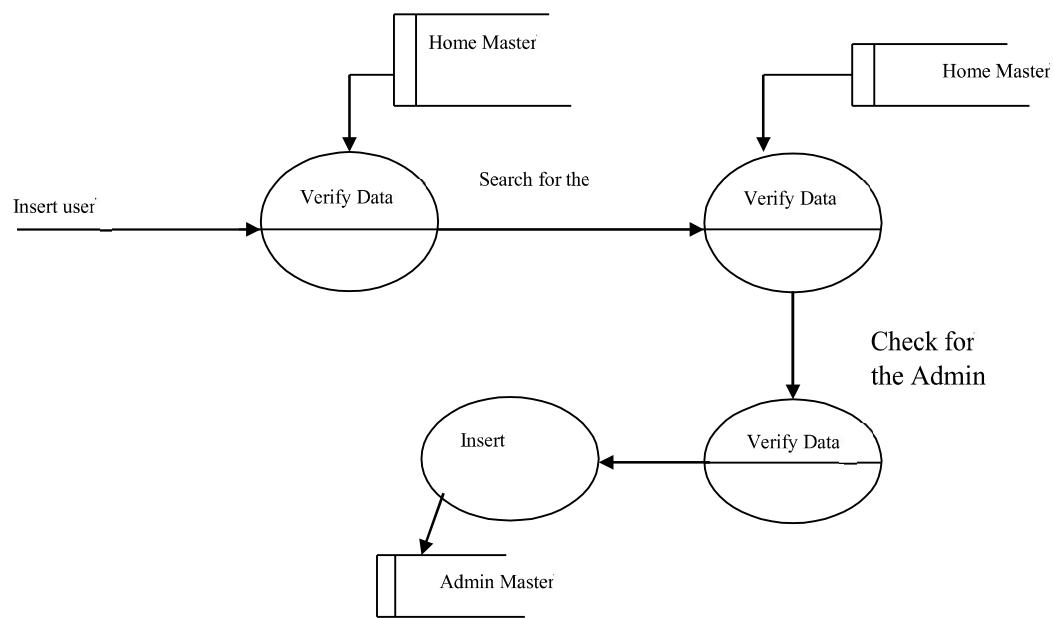
Data flows are data structures in motion, while data stores are data structures. Data flows are paths or ‘pipe lines’, along which data structures travel, whereas the data stores are places where data structures are kept until needed.

Data flows are data structures in motion, while data stores are data structures at rest. Hence it is possible that the data flow and the data store would be made up of the same data structure.

Data flow diagrams is a very handy tool for the system analyst because it gives the analyst the overall picture of the system, it is a diagrammatic approach.



DFD for User Account



DFD for Booking

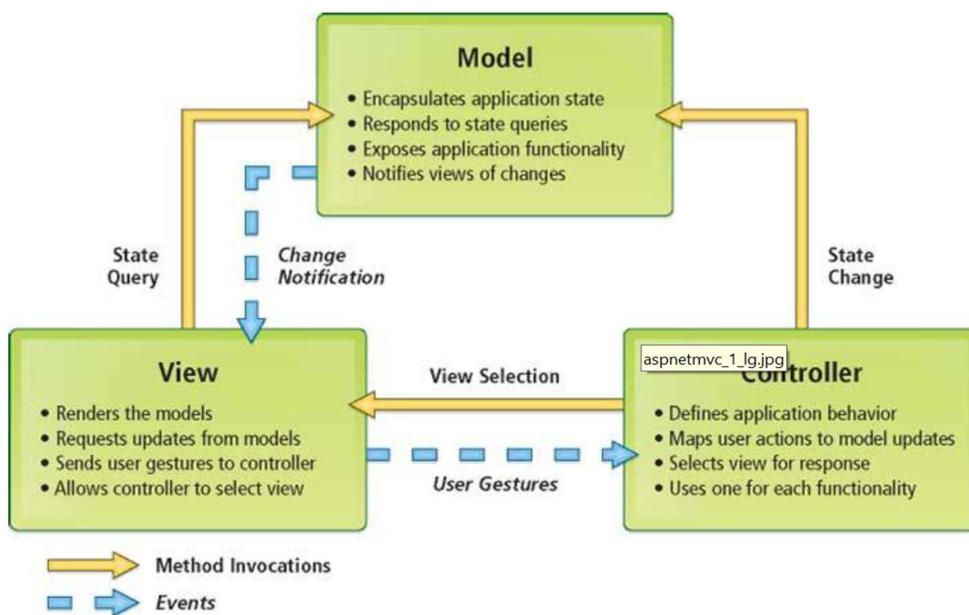
CHAPTER 3

3.1 Implementation Methodology:

Model View Controller or MVC as it is popularly called, is a software design pattern for developing web applications.

A Model View Controller pattern is made up of the following three parts:

- **Model**-The lowest level of the pattern which is responsible for maintaining data.
- **View** - This is responsible for displaying all or a portion of the data to the user
- **Controller** -Software Code that controls the interactions between the Model and view



MVC (Model View Controller Flow) Diagram

3.2 Project Scheduling:

An elementary Gantt chart or Timeline chart for the development plan is given below. The plan explains the tasks versus the time (in weeks) they will take to complete.

Wi ‘s are weeks of the months, for i =1, 2, 3, 4

	January				February				March			
	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
Requirement Gathering	■											
Analysis		■	■									
Design				■								
Coding					■	■	■	■				
Testing									■	■		
Implement											■	

3.3 Modules of Movie Ticket Booking System

- Movie Management Module: Used for managing the Movie details.
- Movie Language Module: Used for managing the details of Movie Language
- Movie Type Module: Used for managing the details of Movie Type
- Ticket Management Module: Used for managing the information and details of the Ticket.
- Booking Module: Used for managing the Booking details
- Customer Module: Used for managing the Customer information
- Login Module: Used for managing the login details
- Users Module: Used for managing the users of the system

3.4 Objectives and Functionalities Provided by Online Movie Ticket Booking System:

- Provides the searching facilities based on various factors. Such as Movie, Booking, Customer, Movie Language
- Movie Ticket Booking System also manage the Movie Type details online forCustomer details, Movie Language details, Movie.
- It tracks all the information of Ticket, Movie Type, Customer etc.
- Manage the information of Ticket
- Shows the information and description of the Movie, Booking
- To increase efficiency of managing the Movie, Ticket
- It deals with monitoring the information and transactions of Customer.
- Manage the information of Movie
- Editing, adding and updating of Records is improved which results in proper resource management of Movie data.
- Manage the information of Customer
- Integration of all records of Movie Language.

3.5 Working Modules:

3.5.1 Signup:

In this module, the user who can visit my page can create a new account. In that user want to fill some credentials. The credentials are first name, last name, mail id, phone number, role and password and confirm password. Each field has validation. All field are not left blank by the user. If the field is empty, an error message is displayed. The username validation check whether the Input contains the minimum or maximum characters required. The validation for passwords is that it should not be empty and a minimum length of characters is necessary. The email validation contains combinations of special character such as the @, dot(.) and alphanumeric values. Other constraints are that the “@” should be present only once and should not be the first character of the email address. The validation for phone number contains only digits and the number of digits depends on the country. For India, the phone number input requires 10 digits. The role field is set to be drop down list. So the user can choose their role. Once the validations are correct the user can create an account.

3.5.2 Login:

In this module, it displays two fields. One is a username and the other is a password. When the user enters the correct username and password, then it will check with the database. If it is true, then it will redirect to the specific page. But the user enters the incorrect username and password, then it will not redirect to the page until the user enters the correct username and password. In this

project, it has three roles. They are user, theatre owner and admin. Based on the user role, it will be authenticated and authorize the specific page. Once the user logged in, the Login module presents the user with a Logout button. Logged in users who are inactive for a predetermined time will be automatically logged out.

3.5.3 Customer Module:

In Viewer profile, the viewer can check the availability of tickets and their category. The category can be silver, gold or platinum and they can also book their ticket according to their budget and need. Viewer profile contains their name, Contact details, address, and other necessary personal data, etc. They need to sign-up for booking the movie ticket, which will make them as well as the manager or the owner of the hall to interact with each other easily. They can pay the amount Online.

3.5.4 Owner Module:

The owner has full access to the system. The owner can graphically view all the details, and he has the authority to change the Cost of tickets, ticket Availability and much more. The owner is provided with an id and password. He can check the details of seats left and seats reserved. He also can give various kinds of offers to the viewers. He can also keep some seats hidden from the users for their offline reservation. He can add new movies and their show timings. Also, he can delete some video from the website.

3.5.5 Admin Module:

In Admin profile, the admin can accept or reject the request of theatre owner and view all the details of users. The admin can add or delete the user and theatre and manage all the details.

3.5.6 Movie Module:

This module will help the viewer to see the details of the movies available for the show. He can even search for any specific film. The number of seats available will be displayed to the viewer along with their timings and the cost of different types of tickets.

3.5.7 Booking Module:

The main purpose for developing this module is to manage the booking of the movie. So all movie ticket booking will be managed by theatre owner and customer will be able to book movie. Admin and owner can see the list of all the movie category and filter it according to the customers. Customer can see all the booking details.

3.5.8 Movie Certificate Module:

The main purpose for developing this module is to manage the movie certificate data wise. So all movie certificate will be managed by admin, owner and customer will be able to see movie certificate record.

3.5.9 Movie Language Module:

The main purpose for developing this module is to movie language. So all movie language will be managed by admin and owner and customers will be able to see movie language.

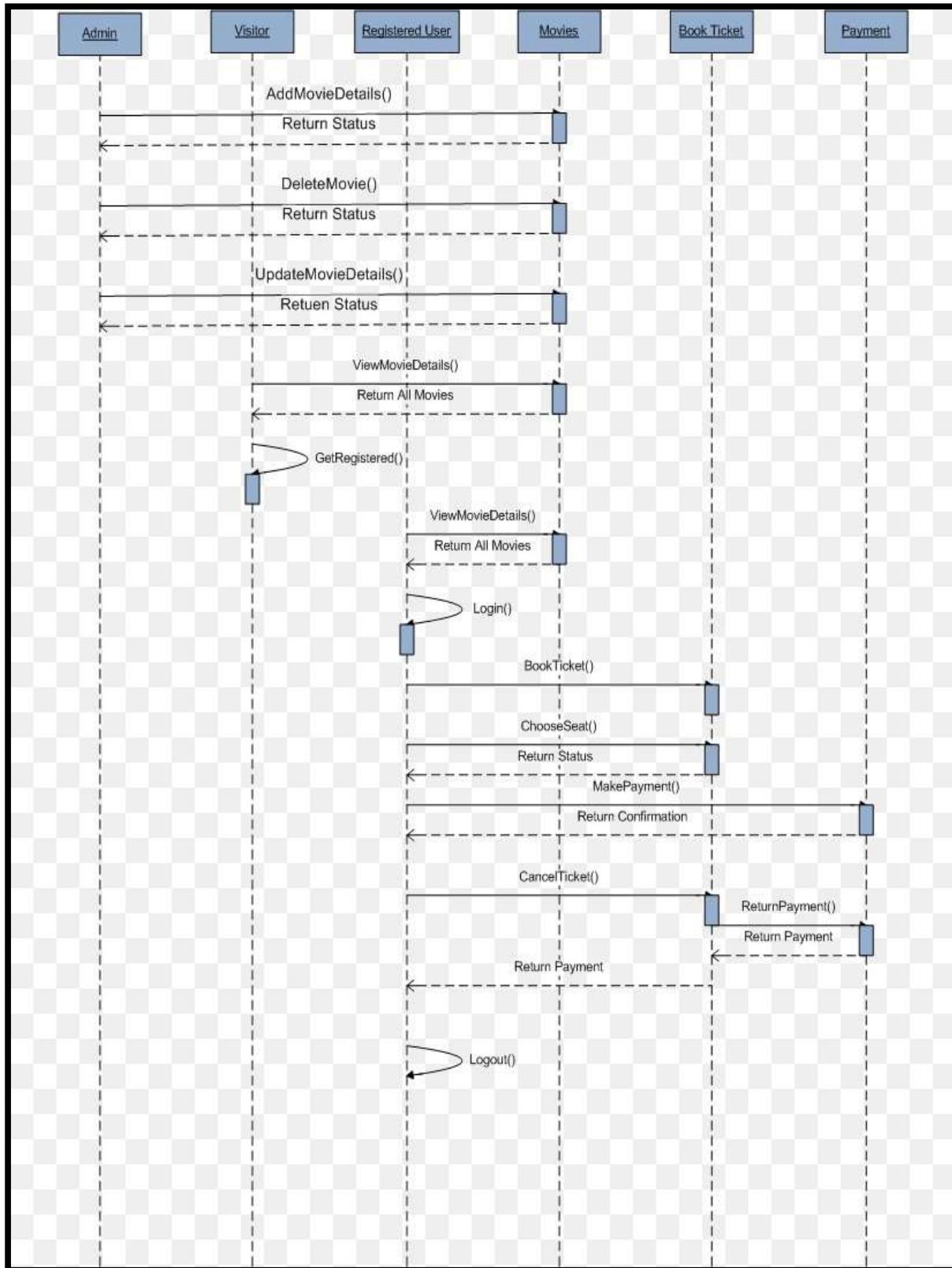
3.51 Movie Type Module:

The main purpose for developing this module is provide all the functionality related to movie type. It tracks all the information and details of the movie type.

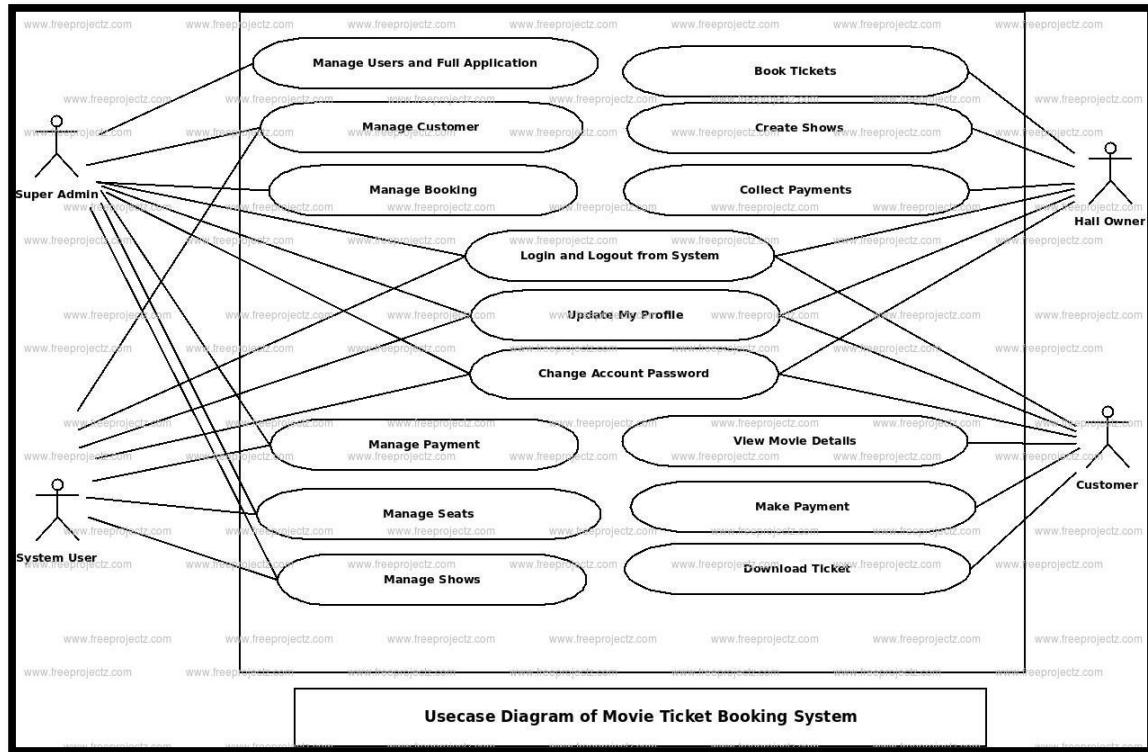
2.52 Payment Module:

After filling the details like the name of the movie, category of cards, the timings of the show and the number of seats to be reserved, the viewers need to pay the money using different options available like cash/netbanking/ATM card/credit/debit card.

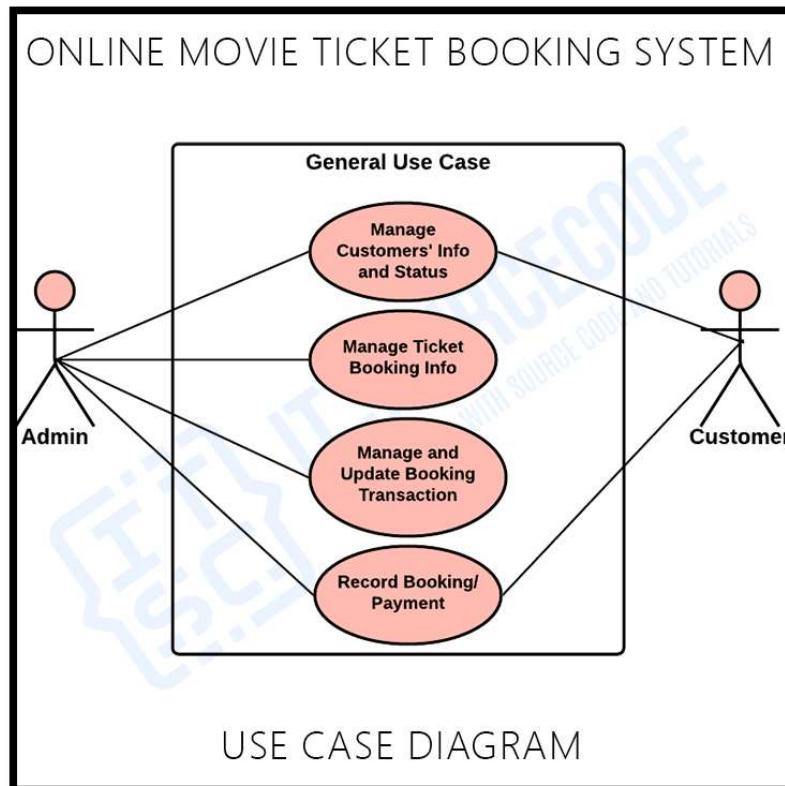
3.6 Sequence Diagram for Movie Database:



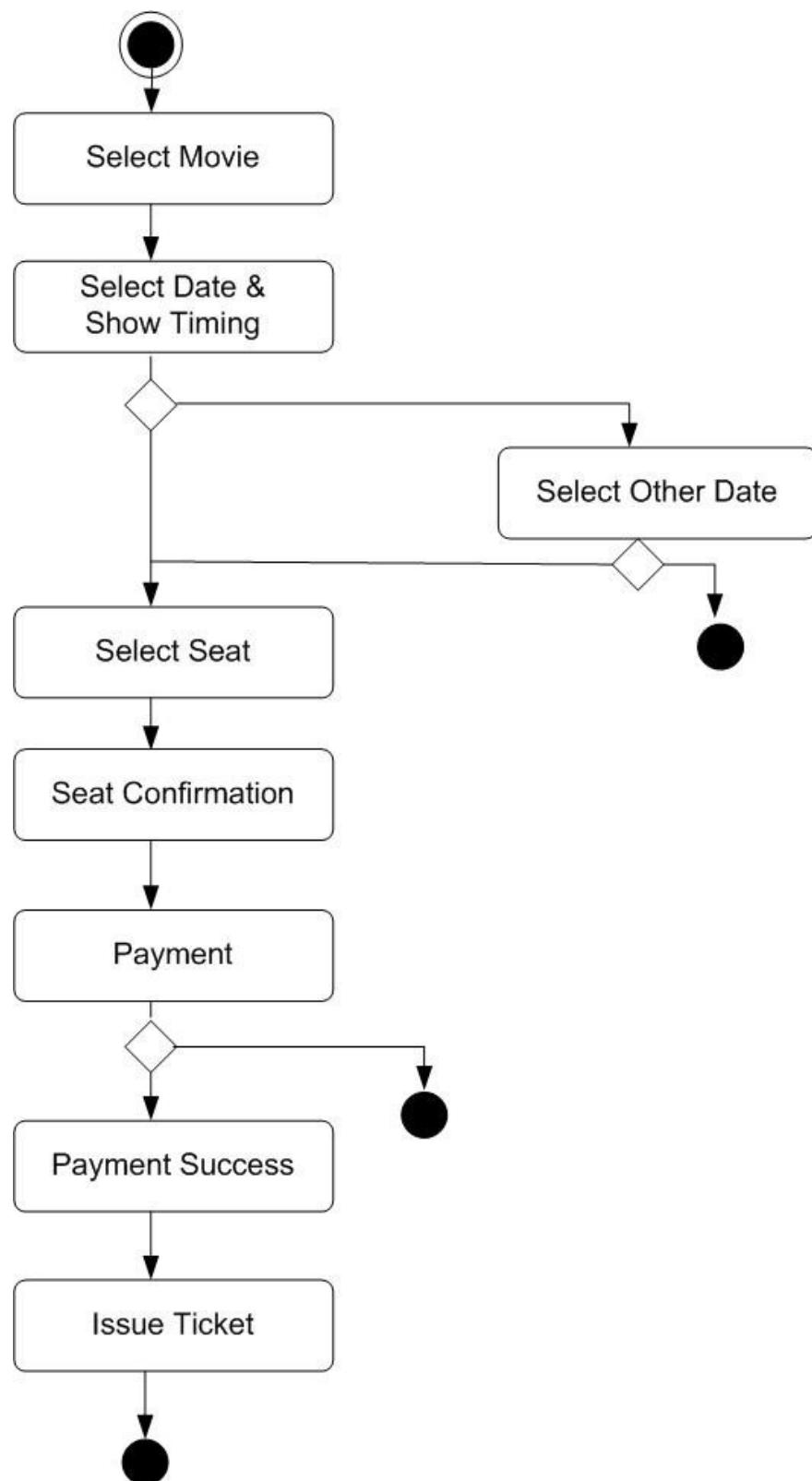
3.7 Actors Diagram:



3.8 Use Case Diagram:



3.9 Activity Diagram:



3.91 SNAPSOTS

The screenshot shows the homepage of the "TICKET BOOKING" system. At the top, there's a logo featuring a movie reel, popcorn, and a ticket. The navigation bar includes links for HOME, MOVIES, DEMO, and LOGOUT. A search bar at the top right allows users to "Enter A Movie Name" and has a red "Search" button.

Upcoming Movies:

- Black Widow**
Cast: Scarlett Johansson, Florence Pugh, David Harbour, Rachel Weisz
Release Date: 2021-07-09
Description: At birth the Black Widow (aka Natasha Romanova) is given to the KGB, which grooms her to become its ultimate operative.
- Shang-Chi and the Legend of the Ten Rings**
Cast: Simu Liu, Awkwafina, Tony Leung, Fala Chen, Michelle Yeoh
Release Date: 2021-09-14

Movie Trailers:

- Justice League**
- Justice League**

Films in Theaters:

- The Invisible Man**
Release Date: 2020-03-04
Cast: Elisabeth Moss, Oliver Jackson-Cohen, Aldis Hodge, Storm Reid
Description: Cecilia's abusive ex-boyfriend fakes his death and becomes invisible to stalk and torment her. She begins experiencing strange events and decides to hunt down the truth on her own.
- Godzilla vs. Kong**

Homepage

The screenshot shows the Admin Panel of the OMTBS system. The left sidebar features a navigation menu with items like Home, Add Theatre, and Upcoming Movie News. The main content area is titled "Movies List" and displays a list of movies with their names: The Invisible Man, Cherry, Godzilla vs. Kong, Outside the Wire, and Justice League.

Admin Panel

DBMS Mini Project Report on “Movies Ticket Booking System”

Theatre Assistant

Riverview Theater Online

- Home
- + Add Movie
- View Movies
- Add Show
- Todays Shows
- Todays Bookings
- View Show
- Theatre Details

Theatre Assistance

Running Movies

No	Show Time	Screen	Movie
1	Demo Screen	00:08:00(First)	Cherry
2	IMX Screen	09:18:00(Second)	Outside the Wire
3	IMX Screen	06:35:00(First)	Godzilla vs. Kong
4	IMX Screen	00:02:00(Noon)	Justice League

Theater Management

Theatre Assistant

Riverview Theater Online

- Home
- + Add Movie
- View Movies
- Add Show
- Todays Shows
- Todays Bookings
- View Show
- Theatre Details

Add Show

Select Movie

Select Screen

Select Show Times

Select Start Date

Add Show

Adding Movies

OMTBS

Add Theatre

Theatre Name:

Theatre Address:

Place:

State:

Pin Code:

Zip code:

Username:

THR699584

Password:

Admin

Theater addition

Theatre Assistant

Riverview Theater

Theater Details

General Details

Theater Name	Riverview Theater
Theater Address	3800 42nd Ave S
Place	Minneapolis, MN 55406
State	Minnesota
Pin	224450

Screen Details

Slno	Screen Name	Seats	Charge	Show Time	
1	Demo Screen	150	300	12:08 am ,03:10 pm ,06:10 pm ,08:04 pm ,	+ Add Screen
2	IMX Screen	200	600	12:02 am ,06:35 am ,09:18 am ,	+ Add Show Times

Screen Addition

The screenshot shows a web-based application interface for managing movie news. On the left, there's a dark sidebar with the title 'OMTBS' at the top. Below it, there's a user icon labeled 'Administrator' and 'Online'. The sidebar has three main navigation items: 'Home', 'Add Theatre', and 'Upcoming Movie News', with 'Upcoming Movie News' currently selected. The main content area has a blue header bar with the title 'Add Upcoming Movie News' and a back arrow. In the top right corner of the header, there are icons for 'Admin' and notifications. Below the header, the form fields for adding movie news are displayed. These include:

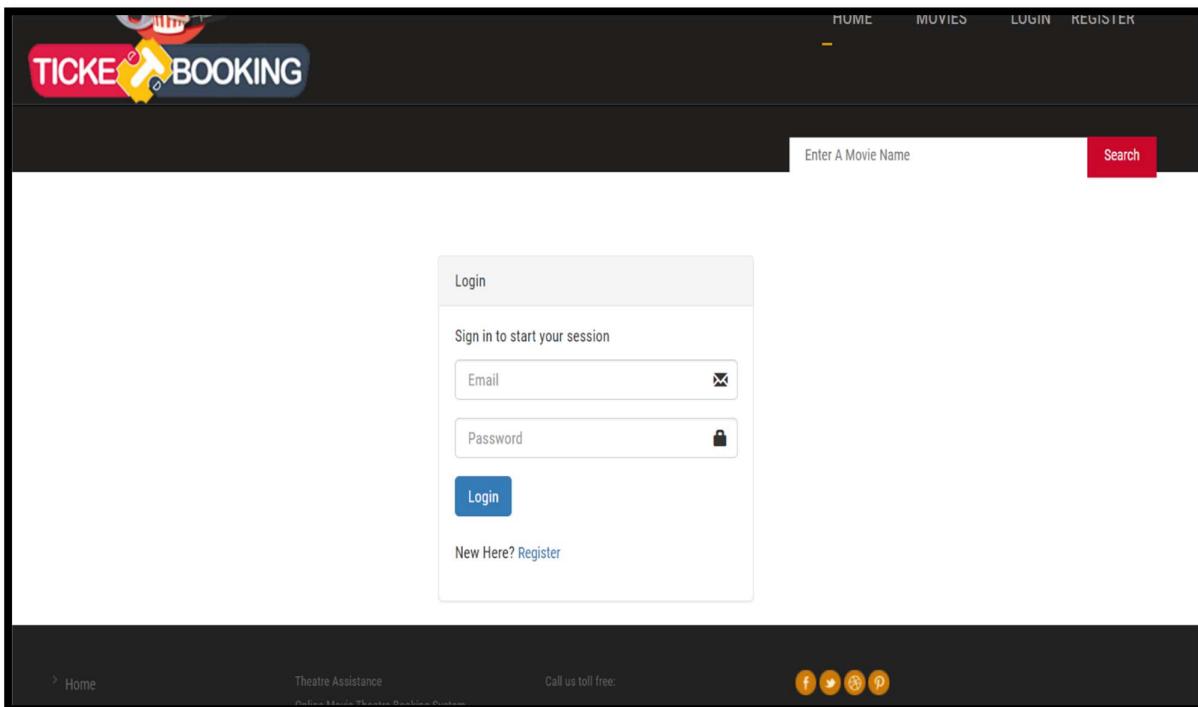
- Movie name:** A text input field.
- Cast:** A text input field.
- Release Date:** A date input field with a calendar icon.
- Description:** A text input field.
- Images:** A file input field with a placeholder 'Choose File' and a note 'No file chosen'.

At the bottom of the form is a green 'Add News' button.

Upcoming Movies News

This screenshot shows a client registration form. At the top, there's a search bar with the placeholder 'Enter A Movie Name' and a red 'Search' button. Below the search bar is a large white area containing a registration form titled 'Register'. The form consists of seven text input fields with accompanying icons: 'Name' (person icon), 'Age' (person icon), 'Select Gender' (gender icon), 'Mobile Number' (phone icon), 'Email' (envelope icon), 'Password' (lock icon), and another 'Password' field (lock icon). At the bottom of the form is a blue 'Continue' button.

Client Registration Page

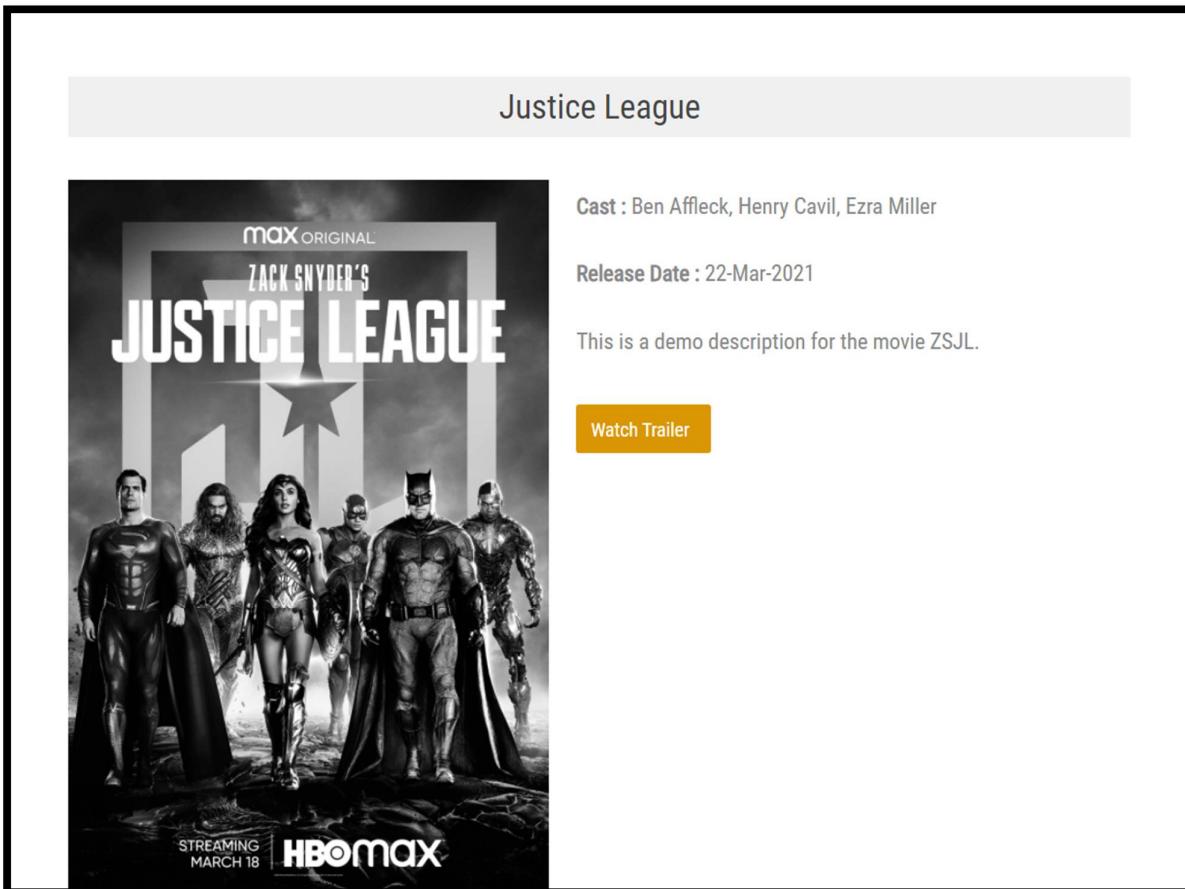


Client Login Page

The screenshot shows the "Theatre Assistant" page for "Riverview Theater". The left sidebar lists navigation options: Home, Add Movie, View Movies, Add Show, Today's Shows, Today's Bookings, View Show, and Theatre Details. The main content area displays "Todays Shows" with a sub-section for "Available Shows". A table lists two movie showtimes:

Sl.no	Screen	Show Time	Movie
1	IMX Screen	06:35 AM (First Show)	Godzilla vs. Kong
2	IMX Screen	12:02 AM (Noon Show)	Justice League

Today's Shows



Justice League

Cast : Ben Affleck, Henry Cavil, Ezra Miller

Release Date : 22-Mar-2021

This is a demo description for the movie ZS JL.

[Watch Trailer](#)

Watch Trailer

A screenshot of a YouTube browser window. The main video player shows a scene from the movie with Wonder Woman in the foreground. To the right, there is a "Watch on YouTube" section for "Zack Snyder's Justice League", showing the movie's thumbnail, rating, and genre information. Below that is a "BUY OR RENT" button and a brief plot summary. At the bottom, there are related video suggestions and social sharing options.

Trailer link takes to the destination

DBMS Mini Project Report on “Movies Ticket Booking System”



Available Shows

Theatre	Show Timings
Riverview Theater, Minneapolis, MN 55406	12:02 AM

pilot sent into a war zone finds himself paired up with a top-secret android officer on a mission to stop a nuclear attack.

Justice League
 Release Date: 2021-03-22
 Cast: Ben Affleck, Henry Cavil, Ezra Miller
 Description: This is a demo description for the movie ZSJL.

Godzilla vs. Kong
 Release Date: 2021-03-31
 Cast: Millie Bobby Brown, Alexander Skarsgård, Rebecca Hall
 Description: The initial confrontation between the two titans – instigated by unseen forces – is only the beginning of the mystery that lies deep within the core of the planet.

Cherry
 Release Date: 2021-03-01
 Cast: Tom Holland, Ciara Bravo,

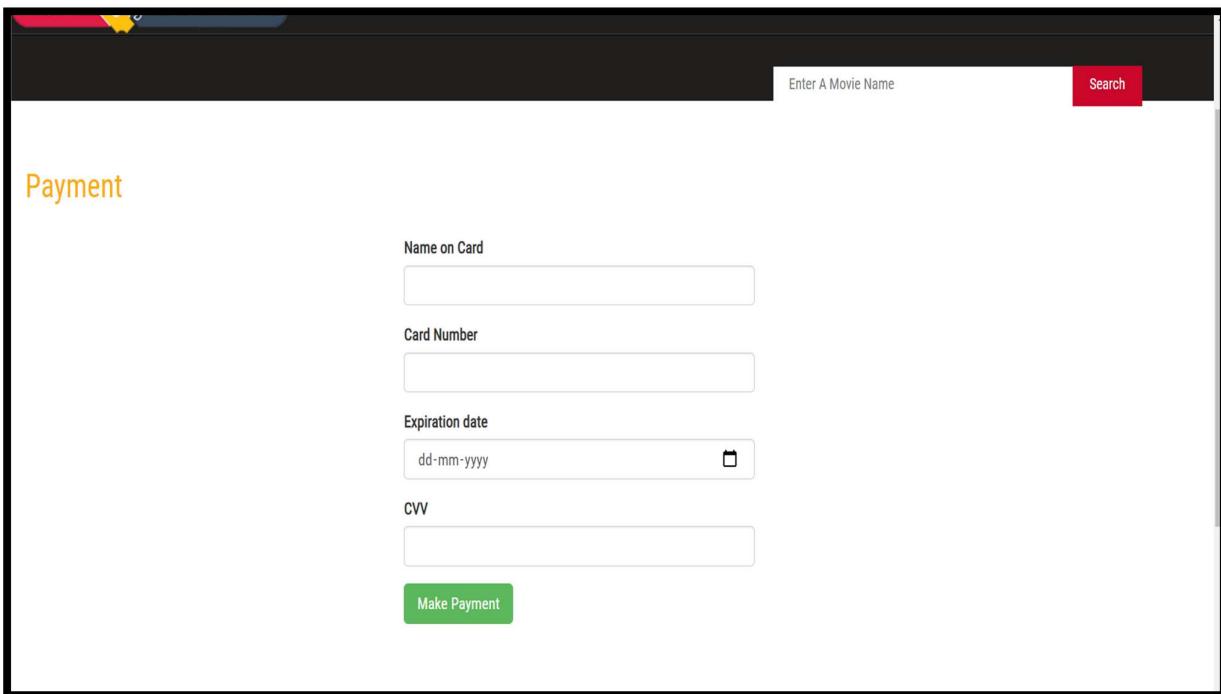
Show Booking Timings



Theatre	Riverview Theater, Minneapolis, MN 55406	
Screen	IMX Screen	
Date	01-Feb-2022	<input style="border: none; background-color: transparent; font-size: small;" type="button" value=" > "/>
Show Time	12:02 AM Noon Show	
Number of Seats	<input type="text" value="1"/>	
Amount	Rs 600	

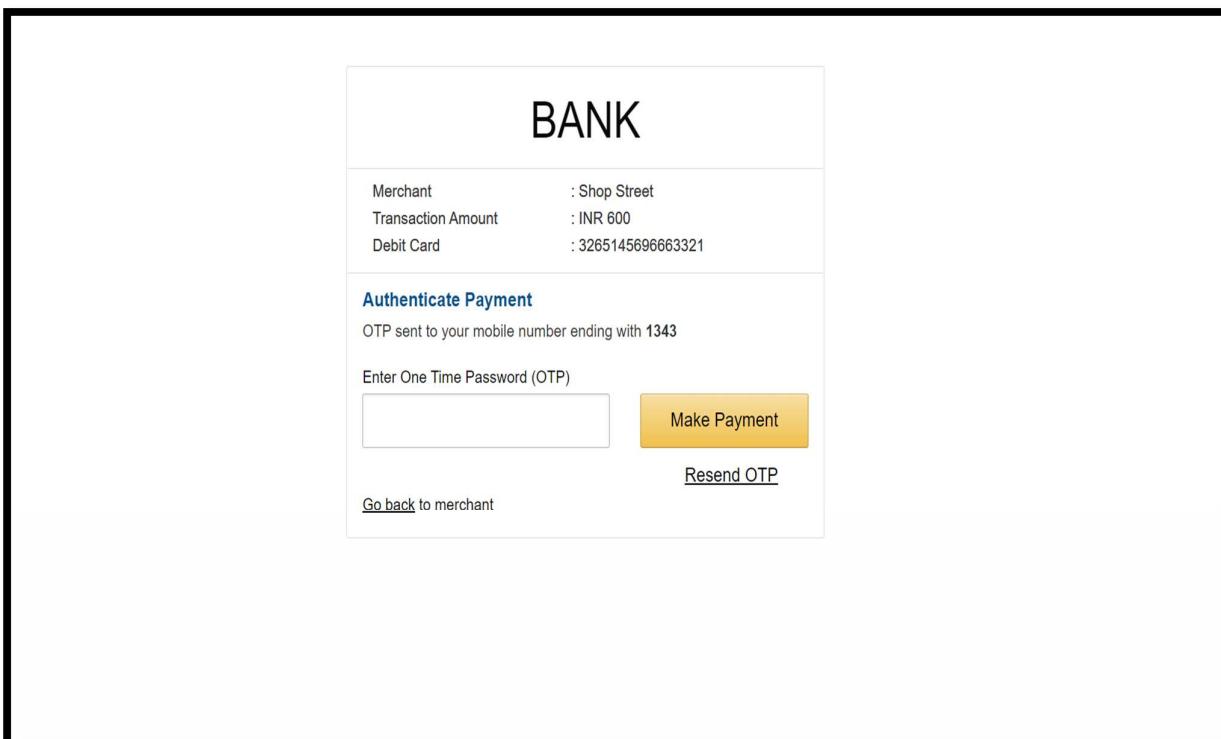
Book Now

Booking Details



A screenshot of a payment interface titled "Payment". At the top right is a search bar with placeholder text "Enter A Movie Name" and a red "Search" button. Below the title, there are four input fields: "Name on Card" (empty), "Card Number" (empty), "Expiration date" (dd-mm-yyyy format, empty), and "CVV" (empty). A green "Make Payment" button is located at the bottom left of the form area.

Payment Interface



A screenshot of a payment OTP confirmation interface titled "BANK". It displays merchant information: Shop Street, INR 600, and a debit card number. Below this, under "Authenticate Payment", it says "OTP sent to your mobile number ending with 1343". It has a text input for "Enter One Time Password (OTP)" and a yellow "Make Payment" button. There are also "Resend OTP" and "Go back to merchant" links.

Payment OTP Confirmation

DBMS Mini Project Report on “Movies Ticket Booking System”

<p>Civilizations.</p>  <p>RRR Cast : N. T. Rama Rao Jr., Ram Charan, Ajay Devgn, Alia Bhatt Release Date :2022-04-28</p> <p>RRR is an upcoming Indian Telugu-language period action drama film directed by S. S. Rajamouli, and produced by D. V. V. Danayya of DVV Entertainments. The film stars N. T. Rama Rao Jr., Ram Charan, A</p>	 <p>Outside the Wire</p>  <p>Godzilla vs. Kong</p>	 <p>Miller Description: This is a demo description for the movie ZSJL.</p>  <p>Outside the Wire</p> <p>Release Date: 2021-01-28 Cast: Anthony Mackie, Damson Idris, Emily Beecham Description: In the near future, a drone pilot sent into a war zone finds himself paired up with a top-secret android officer on a mission to stop a nuclear attack.</p>
 <p>KGF:CHAPTER 2 Cast :YASH,SHRINIDHI SHETTY,SANJAY DATT,PRAKASH RAJ Release Date :2022-04-14</p> <p>K.G.F: Chapter 2 is an upcoming Indian Kannada-language period drama action film written and directed by Prashanth Neel, and produced by Vijay Kiragandur under the banner Hombale Films. The second ins</p>	 <p>Godzilla vs. Kong</p>  <p>Cherry</p>	 <p>Cherry</p> <p>Release Date: 2021-03-01 Cast: Tom Holland, Ciara Bravo, Harry Holland, Kelli Berglund Description: Cherry (Tom Holland) drifts from college dropout to army medic in Iraq-anchored only by his one true love, Emily (Ciara Bravo). But after returning from the war with PTSD, his life spirals into drugs.</p>

Upcoming New Movies

CHAPTER 4

4.1 TEST CASES

Test case is an object for execution for other modules in the architecture does not represent any interaction by itself. A test case is a set of sequential steps to execute a test operating on a set of predefined inputs to produce certain expected outputs. There are two types of test cases:-manual and automated. A manual test case is executed manually while an automated test case is executed using automation.

In system testing, test data should cover the possible values of each parameter based on the requirements. Since testing every value is impractical, a few values should be chosen from each equivalence class. An equivalence class is a set of values that should all be treated the same.

Ideally, test cases that check error conditions are written separately from the functional test cases and should have steps to verify the error messages and logs. Realistically, if functional test cases are not yet written, it is ok for testers to check for error conditions when performing normal functional test cases. It should be clear which test data, if any is expected to trigger errors.

This section deals with the details of the classes of tests which must be conducted to validate the functions, performance, and the constraints. This is achieved basically by the means of testing which plays a vital role in the development of the software. The various low level testing which can be grouped on a broader sense are discussed as below:

4.1.1 Integration Testing:

Integration testing is one in which the modules are combined with one another to synchronize the outputs and coordinate the flow of control. Each module is coalesced with other module to establish proper connectivity between the two modules. All the individual modules have been integrated and tested.

4.1.2 Validation Testing:

Validation testing deals with testing that whether the validations are justified and all the requirements are fulfilled logically as per the requirements as the validations are designed according to the requirements of the application – an approach to the problem in a logical and relational manner. All the validation testing have been done (like only the numbers should be accepted in the phone number , amount , bill no fields ,quantity and other related fields, similarly for the text to accepted only in related fields like the names and other related fields). The stock validation is the major validation that keeps track of the products dealt and the reorder level

4.2 DATA VALIDATION

Data validation is a very important part in any application involving a database. We have to be aware of the specifications of the database organization and also about the kind of data that goes into the database. We have to provide for stringent error checking, in order to discard invalid data and prevent it from getting it into the database.

Data validation can be done in two places. While creating the database schema, we can specify certain integrity constraints that have to be maintained between various relations in the schema. This ensures that no insertion, deletion and update anomalies creep in during operation. Data validation can also be done at the interface itself, to provide more robust level of data validation. For example, in the login form whose loginId has been established by the administrator will be given login permission. This can be trapped at the interface level itself. And in the form, to modify the user profile, the administrator is allowed to modify only if that loginId has need permission.

Some Examples of Data Validation done in this project are:

- Invalid loginId cannot be entered.
- Invalid Email Id, Phone no. cannot be entered.
- All the Mandatory fields should be filled.
- And various Front End and Back End Validations

CHAPTER 5

FUTURE SCOPES AND CONCLUSION REFERENCES

5.1 FUTURE SCOPE

The future scope of the project circles around maintaining information regarding:

- We can add printer in future.
- We can give more advance software for Movie Ticket Booking System including more facilities
- We will host the platform on online servers to make it accessible worldwide.
- Integrate multiple load balancers to distribute the loads of the system.
- Create the master and slave database structure to reduce the overload of the database queries.
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers.

The above-mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of Movie and Ticket. Also, as it can be seen that now-a-days the players are versatile, so there is a scope for introducing a method to maintain the Movie Ticket Booking System. Enhancements can be done to maintain all the Movie, Ticket, Booking, Customer, Movie Language.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.

5.2 CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying all the requirements. The objective of software planning is to provide a frame work that enables the manager to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

From this project we had come across many situations where many systems defined function. We used to have some inherent nature which made debugging the system tediously. Some features are implemented there is a scope for improvement in enhancing the user experience of the software and other features should have to be incorporated as the requirement increases.

5.3 REFERENCES

- <https://codeastro.com/movie-ticket-booking-system-in-php-with-source-code/>
- <https://www.scribd.com/document/391869252/PHP-and-MySQL-Project-Report-on-Movie-Ticket-Booking-System>
- <https://www.freeprojectz.com/project-report/1755>
- <https://www.slideshare.net/SikandarPandit/online-movie-ticket-booking-system-121793239>