TICKZY

Project Report

On

"Movie Booking System"

In partial fulfillment for the award of the degree

Of

BACHELOR OF COMPUTER APPLICATION

[B.C.A]

Year 2022-2023

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" College Name "

Affiliated to

Veer Narmad South Gujarat University

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We would like to take opportunity to thank my college **" College Name "** for giving us this tremendous opportunity to work in the real-time project.

Prof. ___, our professor and project coordinator, has been very prudent to us throughout our college studies. He is the person who has been giving direction to our work and the shape to our imagination. We express our regards to her from the core of our heart.

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Finally, we would like to thank our parents for their support throughout the project. We owe a special debt to our family & friends for their supports blessing and encouragement for us.

Yours Sincerely,

ABC

PQR

XYZ

1. Introduction

1.1 About Movie Ticket Booking System

Movie Ticket Booking System is a place where user can book movie ticket of his/her favourite movie and admin can add latest movies show in the available theatres and screens.

Team goals and objective

- The main goal of our team is to build a web application that can provide user a facility to book latest movies at ease of comfort without any inconvenience.

Project Team

- ABC
- PQR
- XYZ

Project Guide

- Prof. ___

1.2 Problem Observation

We have discovered user's problem by researching on their interests and we have found that most of the people visit different theatres to book movie tickets by waiting a long queue. We have found that user wants to book tickets without waiting on a long queue and also as early as possible. So, we have decided to make things easier for user by making this movie booking website where user can book ticket without waiting in queue.

1.3 Pros and Cons

Advantages:

- Provide facility for movie ticket booking
- Advance booking from anytime and anywhere
- Early Booking

Disadvantages:

- Internet handling charges

1.4 Project Overview

Project Title	Movie Ticket Booking System
Project Category	Online Booking System
Project Duration	3 months
Front End	PHP HTML5 CSS3 JavaScript
Back End	MySQL
Browser	Google Chrome Microsoft Edge
Development Tools	Visual Studio Code
Documentation Tools	Microsoft Office Word 2021
Developers	ABC PQR XYZ

2. System Environment

2.1 Hardware Specification

Processor	:	11th Gen intel i5-11300H
RAM	:	8 GB or above
Hard Disk	:	1 TB or above
Input Devices	:	Keyboard, Mouse
Output Devices	:	Monitor
Required	:	Internet connection

2.2 Software Specification

Operating System	:	Windows 11
Front-end	:	PHP-LARAVEL
Back-end	:	MySQL

3. Problem Specification

3.1 Introduction, Objective and Purpose

Introduction:

This project is fully facilitated with the real-world movie ticket booking system of the seats with the approach of the multi-screen and many to one as well as on to many approaches to the movies and screen.

There are two Major Section of Movie Ticket Booking System:

✓ Admin Section

✓ User Section

This project provides complete facility for Admin and User. Project is built in such a way that the user can book movie tickets from any multiplex without any inconvenience. In online movie ticket booking system the user can book tickets of any movie simply by selecting the seat which are available in the multiplex and then can pay the price which is automatically generated when the user clicks the seat. One can even cancel his/her tickets after booking them.

This project is without any logical or semantic error with sufficient required validations. Last but not the least, this project is equipped with state of art user interface.

Objective:

- Complete Database Management
  - Database security
  - Effective database management

- Transaction managements
- Maintain addition or deletion in any category

❖ Web Based System

- Easy and fast response
- Flexible to access
- Provides details efficiently

❖ Security Management

- Session tracking

❖ System should be error free

- Modification does not point to error

❖ System should be user friendly

- User friendly interface. Availability of multiple

Purpose:

The main purpose of Online Movie Ticket Booking System Project is to provide an automated system of buying movie ticket. Now user can get to know movie show timing and buy tickets online via internet 24×7. Admin has full control over all modules of this website. Admin can add new movie details and poster. User can view this schedule and book ticket in his desired show time. User should register themselves on the website for buying ticket.

3.2 System Model

Prototype Model...

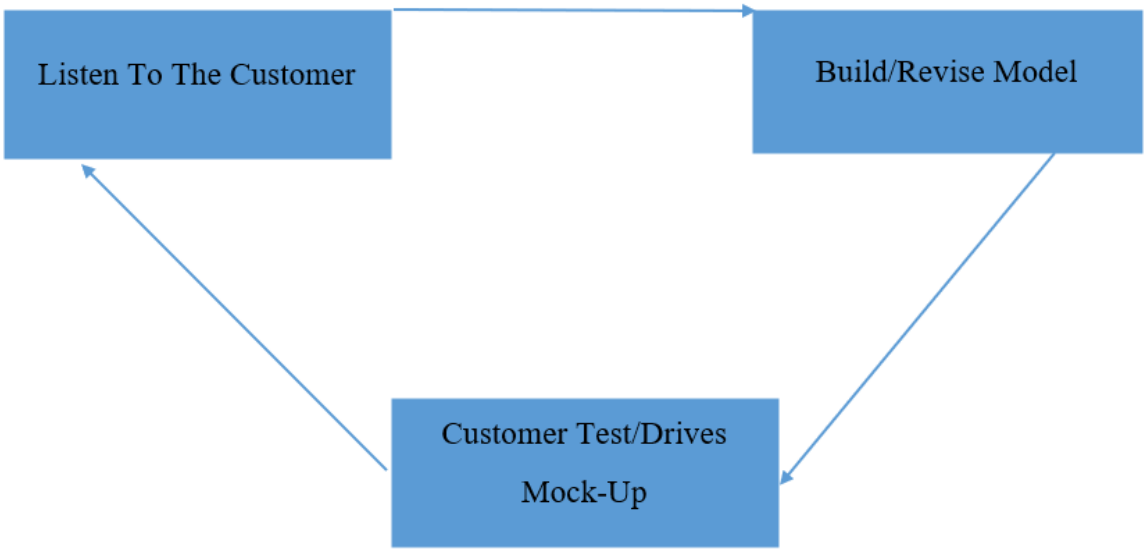
Why we use prototype model?

Our aim is develop a site which is much friendly for users, so we follow Prototype Model. First we gathering requirement which users rarely want. Then we develop a working model related to the customer requirement & try to implement all the things.

Then we move to Customer evaluation & get the review from Customer, if Customer can Satisfied then it is implement Otherwise We follow prototype model steps again until user can't satisfied.

How to work prototype model?

Prototyping is defined as the process of developing a working replication of a product or system that has to be engineered. It offers a small scale facsimile of the end product and is used for obtaining customer feedback as described below:



Prototype is a process which is basically developed where,

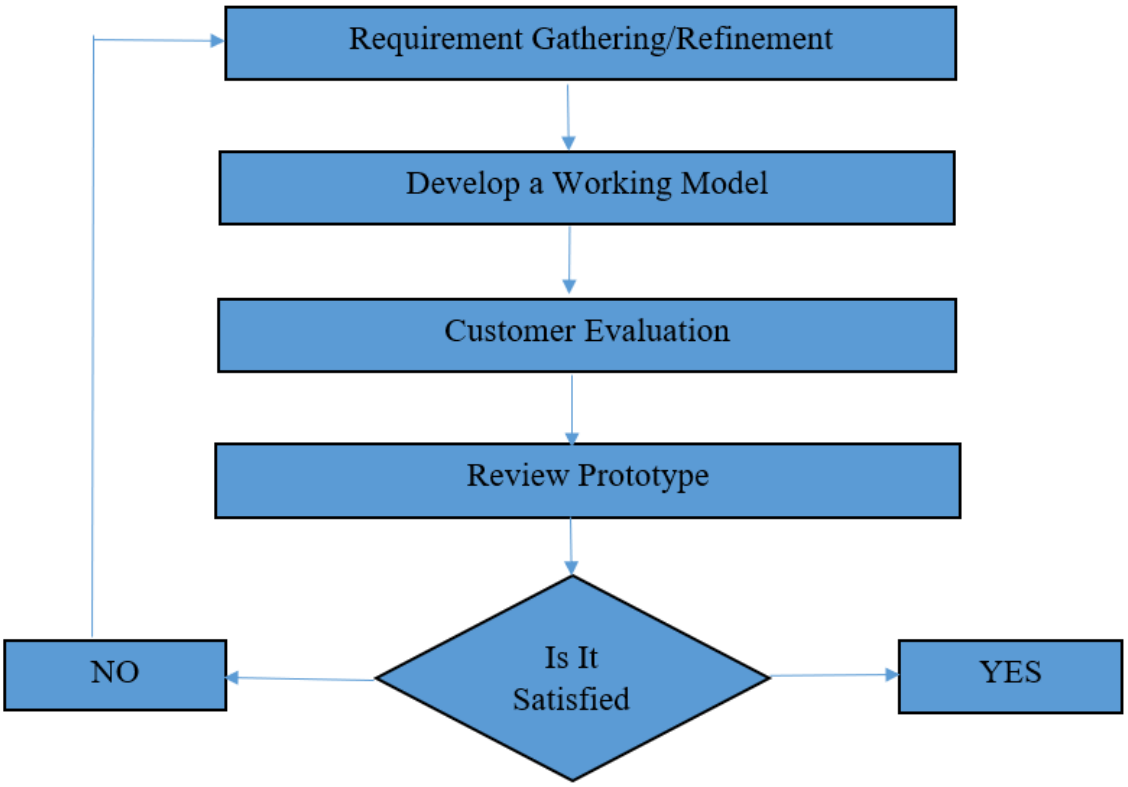
1] User is not sure of the requirement.

2] Develop make in unsure of the efficiency of a particular algorithm.

Prototype model gives just outline or idea about the system.it does not contain all the document.

Prototype model gives a quick design which focus on the aspect that should be receivable the customer so, that is changes are required it can be done in initial status prototype is a recursive model because the working model is change repeated when the customer need changes.

Steps In Prototype Model :-



1] Requirement gathering & Refinement

Both developer & customer work together and define overall Object of the software and identify the requirements which are to be fulfilled.

2] Develop a Working Model

A working model which has important feature is develop so that customer in identify any extra feature is develop so that customer in identify any extra feature acquired or error in application.

3] Customer Evaluation

User is give chance to work on the prototype model and evaluated. This can help finding the changes to be alone.

4] Review Prototype

The prototype is review for is efficiency and it is determined it changes is required if the user requires a changes refinement in requirement is done of is prototype model is implemented.

The process of prototyping repeated till both the user & developer find all the necessary feature that are required for the problem solved.

Advantages of Prototype

1] Misunderstanding between develop team & user can be identify as customer uses the prototype version of s/w.

2] If the software is not user friendly it can be identify in the early stages.

3] The cost of software is very less.

4] System can be delivered within proper time and delay are minimize.

Disadvantages of prototype

1] There may be too much variation in requirements each time the prototype is evaluated by the customer.

2] Poor Documentation due to continuously changing customer requirements.

3] It is very difficult for the developers to accommodate all the changes demanded by the customer.

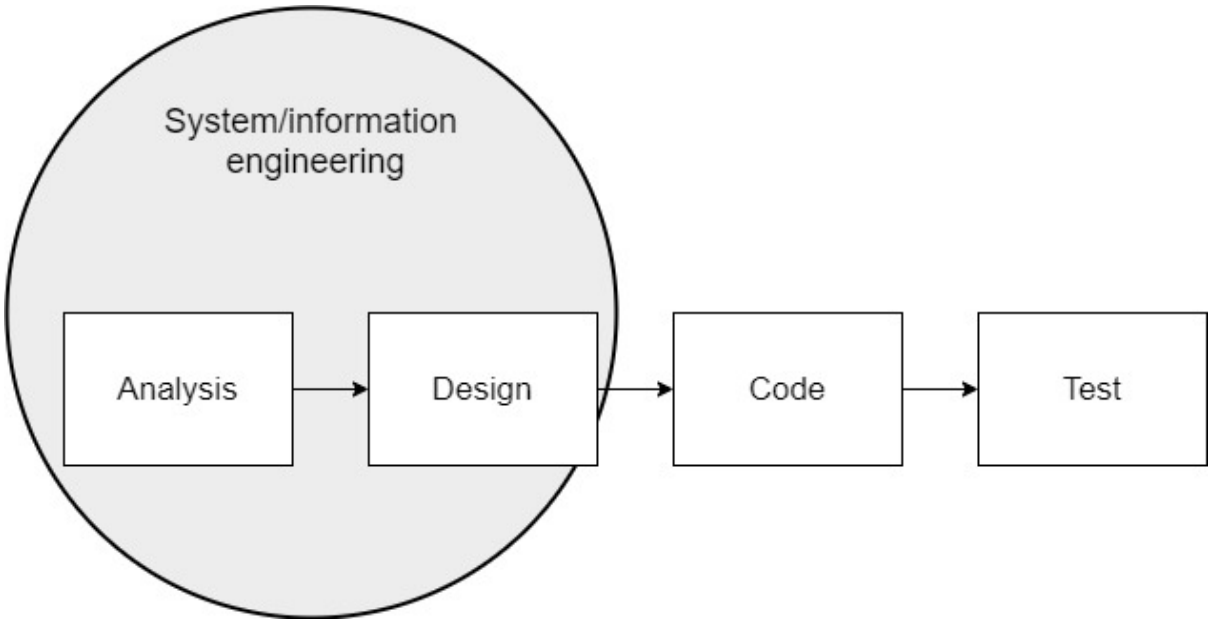
- "A system model is the conceptual model as a result of system modeling that describes and represents a system."

- A system comprises multiple views such as planning, requirement analysis, design, implementation, deployment, structure, behavior, input data, and output data views.

- The system model describes and represents the multiple views possibly using two different approaches. The first one is the "non- architectural approach" and the second one is the "architectural approach".

- The non-architectural approach respectively picks a model for each view. For example, Structured Systems Analysis and Design Method (SSADM), picking the Structure Chart (SC) for structure description and the Data Flow Diagram (DFD) for behaviour description, is categorized into the non-architectural approach.

- The architectural approach instead of picking many heterogeneous and unrelated models, will use only one single coalescence model. For example, System architecture, using the Architecture Description Language (ADL) for both structure and behaviour descriptions, is categorized into the architectural approach.



3.3 Feasibility Study

3.3.1 Economical Feasibility

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 user satisfaction through programmable control etc.)

3.3.2 Technical Feasibility

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.

As the software is very much economically feasible, then it is really important for it to be technically sound. The software will be built among:

- MySQL Server as Back End
- Laravel Framework

3.3.3 Behavioural Feasibility

Behaviourally also the proposed system is feasible. A particular application may be technically and but may fail to produce the forecasted benefits, because the company is not able to get it to work. For the system, it is not necessary that the user must be a computer expert, but any computer operator given a little bit of knowledge and training can easily operate.

Our proposed project "Movie Ticket Booking System" is operationally feasible since there is no need for special training of staff member and whatever little instructing on this system is required can be done so quite easily and quickly as it is essentially. This project is being developed keeping in mind the general people who one has very little knowledge of computer operation, but can easily access their required database and other related information. The redundancies can be decreased to a large extent as the system will be fully automated.

4. Risk Identification and Management

4.1 Risk Monitoring

Risks which are possible: -

- As we are not much experienced in professional software development, our team might have difficulties in building elegant solution.
- We might have specified or decided to provide some requirement that we are not sure of fulfilling and that may lead to confusion and schedule problems during later stages in project.
- Project might suffer from lack of schedule due to possible breaks in schedule caused by other activity.

Actions which are taken by us: -

- We are trying to study more and more professionally developed online applications so we can include maximum features.
- We have decided to evaluate specifications at regular intervals for feasibility and refine it if necessary.
- We have prepared project schedule in such way that we get enough time for project work along with other preparations.

RMMM (Risk Mitigation, Monitoring and Management Plan):

Risk	Probability	Impact	RMMM
Inappropriate version of packages and development tool	60%	Marginal	Carefully select the specific versions of tools and components to use and ensure that every member will adhere to the choice throughout the entire project.
Failure to meet deadlines for deliverable	20%	Negligible	Setup milestones ahead of the final due date for each deliverable
Occurrences of lots of bugs	30%	Critical	Proper testing technology is used in order to solve most errors.
Technology will not meet expectation.	20%	Moderate	Exploring alternatives for the outdated technologies.

5. Technology Used for Development

We used technology for Front-end tools are PHP & LARAVEL and Back-end tools are MySQL. Also, extra tools are JavaScript, AJAX, jQuery, HTML5 and CSS3.

5.1 Front-End Tools

PHP

LARAVEL

PHP Introduction:

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside the web context, such as standalone graphical applications. PHP code can also be directly executed from the command line.

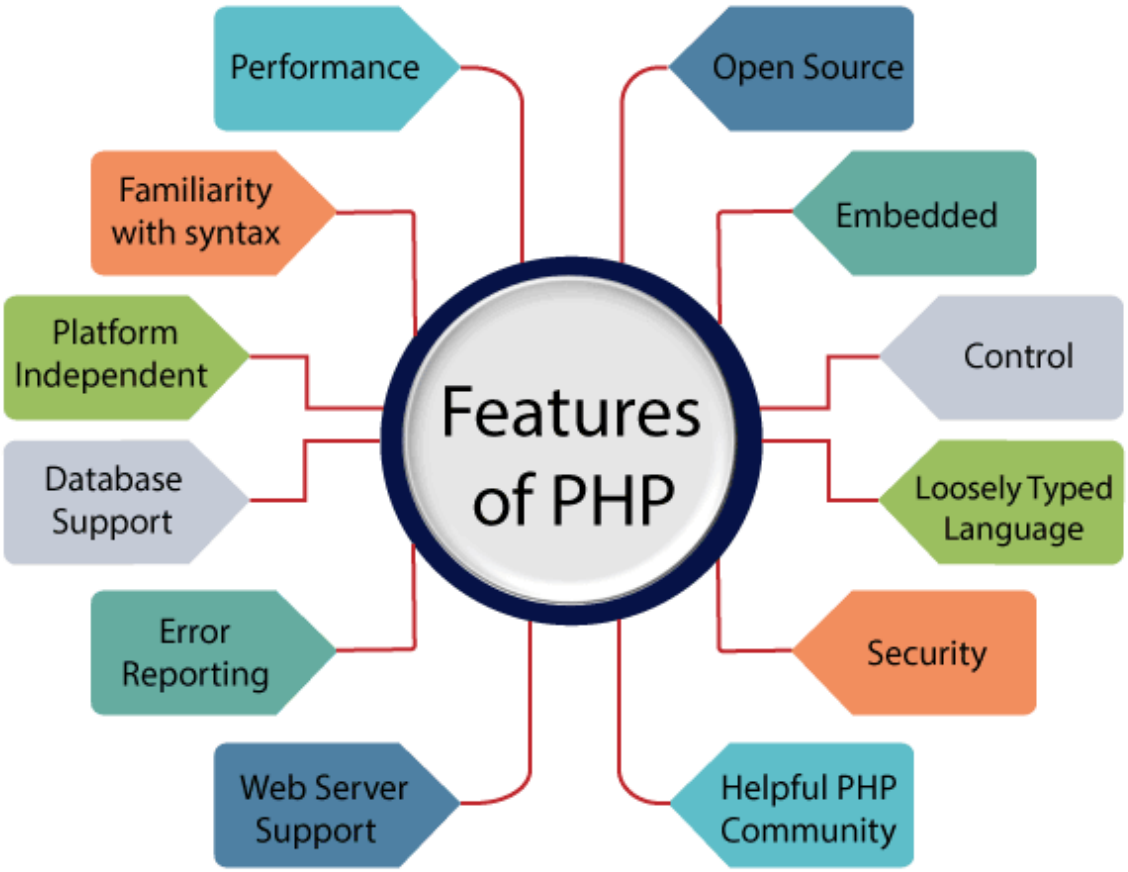
The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on a variety of operating systems and platforms.

Features of PHP

PHP manages freeing all resources users does not require to free file handle resources, database resources, memory etc. unless programmer need to free resource during script execution PHP also have reference count feature. For example, Memory foe variable is shared with it assigned to another variable. If shared with assigned to another variable.

For example, programmers does not have to use pass by reference for large parameter for better performance with PHP. It would be a nice section for new PHP users if there is “Responding Handling” section or like explanation about reference count feature in PHP would be very helpful to write better PHP scripts also.

Features:



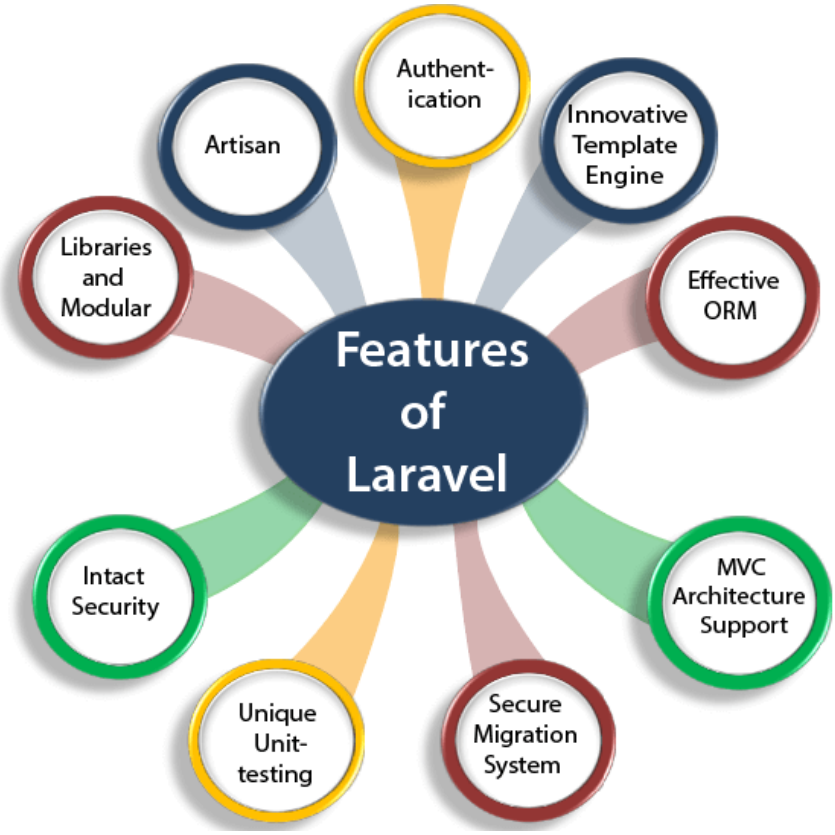
LARAVEL Introduction:

Laravel is a web application framework with expressive, elegant syntax. A web framework provides a structure and starting point for creating your application, allowing you to focus on creating something amazing while we sweat the details.

Laravel strives to provide an amazing developer experience while providing powerful features such as thorough dependency injection, an expressive database abstraction layer, queues and scheduled jobs, unit and integration testing, and more.

Whether you are new to PHP or web frameworks or have years of experience, Laravel is a framework that can grow with you. We'll help you take your first steps as a web developer or give you a boost as you take your expertise to the next level. We can't wait to see what you build.

Features:



5.2 Back-End Tools

MySQL

MySQL Introduction:

MySQL is an open-source Relational Database Management System MySQL is very fast reliable and flexible Database Management System. It provides a very high performance and it is multi-threaded and multi–Relational Database Management System.

MySQL is one of the most popular relational Database Management System on the web. The MySQL Database has become the world's most popular open-source Database, becomes it is free and available on almost all the

platform on UNIX, Windows and Mac OS. MYSQL is used for the internet application as it provides good speed and is very secure MySQL was developed run to manage large volumes of data at very high speed to overcome the problems of existing solution MySQL can be used for verify of application but it is mostly used for the web application on the internet.

The MySQL development project has made its source code available under the terms of the GNU General public License, as well as under a variety of proprietary agreement. MySQL was owned and sponsored by a single for profile firm, the Swedish Company MySQL AB, now owned but Oracle Corporation.

Features:

- MySQL is a relational database management system. This database language is based on the SQL queries to access and manage the records of the table.

- MySQL is easy to use. We have to get only the basic knowledge of SQL. We can build and interact with MySQL by using only a few simple SQL statements.

- MySQL consists of a solid data security layer that protects sensitive data from intruders. Also, passwords are encrypted in MySQL.

- MySQL follows the working of a client/server architecture. There is a database server (MySQL) and arbitrarily many clients (application

programs), which communicate with the server; that is, they can query data, save changes, etc.

- MySQL is free to use so that we can download it from MySQL official website without any cost.

- MySQL supports multi-threading that makes it easily scalable. It can handle almost any amount of data, up to as much as 50 million rows or more. The default file size limit is about 4 GB. However, we can increase this number to a theoretical limit of 8 TB of data.

- MySQL is considered one of the very fast database languages, backed by a large number of the benchmark test.

- MySQL supports a large number of embedded applications, which makes MySQL very flexible.

- MySQL allows transactions to be rolled back, commit, and crash recovery.

5.3 Extra Tools

JAVASCRIPT

HTML5

CSS3

jQuery

AJAX

JAVASCRIPT Introduction:

JavaScript is the prototype-based scripting language that is dynamic, weakly typed and has first class function it is a multi-paradigm language supported objected oriented, imperative and functional programming style.

JavaScript was formalized in the ECSMAS Script language standard and in primary used in the form of client-side JavaScript implements as part of web browser in order to provide enhance used interface and dynamic website this enable programmatic access to the computational object within a host environment.

JavaScript is used in the application outside web pages for example in PDF documents, site specific browser and desktop widgets is also significant newer and faster JavaScript CMS and framework built upon then have also increased the popularity of JavaScript for server-side web application.

JavaScript user influenced but then of C JavaScript copies meant names and naming conversation from Java but the two languages are otherwise unrelated and very difficult semantics the key design principals with JavaScript and taken from the self and scheme programming language.

HTML5 Introduction:

HTML stands for Hyper Text Markup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. A markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the

computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g., HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text.

HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format. HTML was created by Tim Berners-Lee in 1991. The first-ever version of HTML was HTML 1.0, but the first standard version was HTML 2.0, published in 1999.

CSS3 Introduction:

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

CSS is easy to learn and understand, but it provides powerful control over the presentation of an HTML document.

jQuery Introduction:

jQuery is an open-source JavaScript library that simplifies the interactions between an HTML/CSS document, or more precisely the Document Object Model (DOM), and JavaScript. Elaborating the terms, jQuery simplifies HTML document traversing and manipulation, browser event handling, DOM animations, Ajax interactions, and cross-browser JavaScript development.

jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. It is free, open-source software using the permissive MIT License. As of May 2019, jQuery is used by 73% of the 10 million most popular websites.

jQuery is widely famous with its philosophy of “Write less, do more.” This philosophy can be further elaborated as three concepts:

- Finding some elements (via CSS selectors) and doing something with them (via jQuery methods) i.e., locate a set of elements in the DOM, and then do something with that set of elements.

- Chaining multiple jQuery methods on a set of elements

- Using the jQuery wrapper and implicit iteration

AJAX Introduction:

AJAX = Asynchronous JavaScript and XML.

AJAX is a technique for creating fast and dynamic web pages.

AJAX allows web pages to be updated asynchronously by exchanging small amounts of data with the server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.

Classic web pages, (which do not use AJAX) must reload the entire page if the content should change. Examples of applications using AJAX: Google Maps, Gmail, Youtube, and Facebook tabs.

6. Planning

6.1 System Planning

Today, the demands for a new or enhancement of the system exceeds the ability and resources of most organizations to conduct system development projects.

System Planning is the first phase in the system development life cycle. System Planning is where an organization's total information needs are identified, analyzed , prioritized and arranged. Organization creates and assesses the original goals and expectation of a new system.

Planning phase starts with reviewing the request towards system development. The two major activities involved in system planning are :

- **Identifying The System Development Project**
- **Planning The System Development Project**

6.1.1 Identifying The System Development Project

There are two ways on how to identify the needs for system development either by top-down planning and bottom-up planning. Top-down planning is where the top management asks the IT support or unit within their organization to develop a system. They will identify and assesses if there is any possible system development projects organization can be done. Bottom-up planning is also known as a user request planning. User's request is when users need the system in order to fulfill or help their daily job easily. For the following discussion, we'll consider the second option; the system request is from the user. The starting point of information system project is called a system service request. A system service request might propose enhancements for an existing system, the correction of problems or errors, or the development of entirely new information system.

There are several reasons why user sends for the system service request :

Improved services offered

This is the most basic reason why we need a new or enhanced system. A new or enhanced system is important to improve services for users or users within the organization.

Support for new products or new services

New product developed or new services introduced require new types of IT support.

Provide more information

The system might produce information which is not enough in order to support the organization's changing information needs.

6.1.2 Planning The System Development Project

Some other methodologies refer it as preliminary investigation phase, initial study phase, or planning phase. System analysts always conduct a preliminary investigation to study the system service request and recommend the specific action base on that. This activity is important to initiate the project. After getting the approval from the management, the analysts interact with the stakeholders involved such as system owner, project managers and system user to gather information. The analyst responsibility is to gathers the information about the problems or opportunity, project scope and constraints, project benefits, and budget for development time and costs. Then, analyst will prepare a report to the management.

During the preliminary investigation, a system analyst typically follows a series of steps. System analyst might use tool such as Microsoft Project to plan and manage his/her task in this phase. A proper plan of system development

is important to make sure that the system is within the scope, within the budget, and finish at the specific time.

From the system service request, we'll know either the project is a new information system development or upgrading the current information system. The important task in this step is establishing an initial problems, opportunities and directives that triggered the project. The team needs to learn about the current system. System owner, system analyst and system user have a different level of understanding from the system. After learning the entire system, the project team will sit together to analyze the problem and opportunities arise. During this session, project team ask the system owner and system users several type of questions to gain more understanding to leads to possible new system. They analyzed the problems based on cause-and-effect analysis.

Define the project scope and constraints

Determining the project scope means defining the specific boundaries of the project. It's important to define the project scope because it will limit the project development scope. Scope definition activity is concerned primarily with system owners' view of the existing system and what are the problems or opportunities that come out with the interest of system service request. Scope is the boundaries of a project –the areas of a business that a project may (or may not) address.

Along with the project scope, system analyst needs to identify if there is any possible constraints on the system. A constraint is a requirement or condition that the system must satisfy or an outcome that the system must achieve. A constraint can be derived from hardware, software, time, organization policy and others.

After defining the project scope, the team can establish the system development objectives. Normally, system objectives can be derived after identifying the problem and scopes. System objectives is important because

by the end of the system development, a measurement will be conducted to validate either the project has meets the objectives or not.

Perform fact-finding

Fact-finding involves several techniques depends on what types of information will be gathered. It can take several hours or maybe up to several weeks. During this activity, fact-finding techniques are required to gather basic information about the future system.

Present results and recommendation to management

At the end of this activity, a baseline project plan is prepared and presents it to the management. This task is triggered by the completion of the project plan. The project team will write a report and present the result and recommendation to the management. The decision will be made after this presentation either one from this decision:

- authorize the project to be continued
- make an adjustment such as the scope, time, budget and schedule
- cancel the project.

If the project will be continued, it may proceed to the next step; system analysis. If the project should be cancelled, they will stop the task. There are several reasons why the project should be cancelled such as lack of resources, realization that the problem is not too important, or realization that the cost of the development is too high

6.2 Time Line Chart

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Date	3	10	17	24	7	14	21	28	7	14	21	28	1	4
Month	January				February				March				April	
Activity														
Domain Under Standing														
Further Analysis														
Learning Process														
Design														
Coding and Testing														
Documentation														
Final Documentation														

7. System Analysis

7.1 Database Design

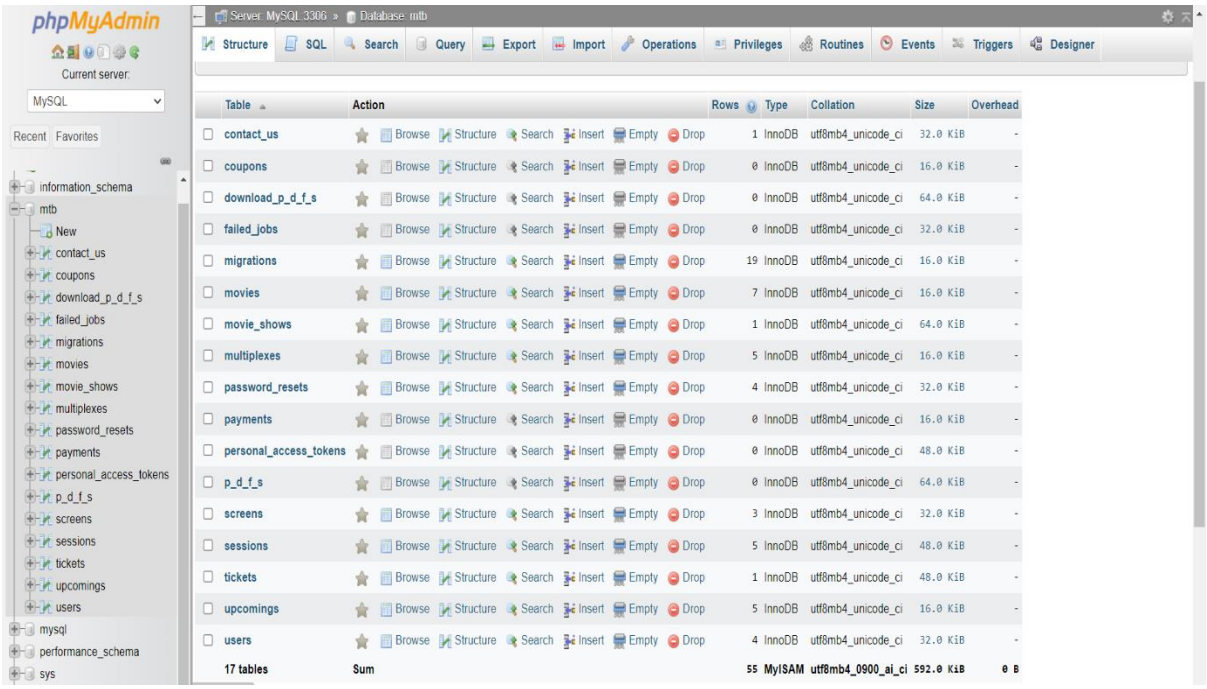


Table Name: users

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (User id, Admin id)
name	Varchar	Not Null	User and Admin Name
email	Varchar	Foreign Key	User email and Admin Email
phone	Varchar	Null	User Phone and Admin Phone
city	Varchar	Null	User City and Admin City
role	Varchar	Not Null	User Role and Admin Role (User=0,Admin=1)
email_verified_at	Timestamp	Null	Time at which email is verified
password	Varchar	Not Null	Encrypted Password
two_factor_secret	Text	Null	Code for Two factor Authentication
two_factor_ recovery_codes	Text	Null	Encrypted Recovery Codes
remember_token	Varchar	Null	Current Session Token
current_team_id	Bigint	Null	Team id

profile_photo_path	Varchar	Null	Profile Photo path
created_at	Timestamp	Null	Row Created at which time
updated_at	Timestamp	Null	Row updated at which time

Table Name: movies

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Movie id)
moviename	Varchar	Not Null	Name of the Movie
description	Varchar	Not Null	Description of the Movie
releasedate	Varchar	Not Null	Release Date of the movie
genre	Varchar	Not Null	Genre of the Movie
type	Varchar	Not Null	Movie Type(2D,3D,4DX)
length	Varchar	Not Null	Length of the movie
trailerlink	Varchar	Not Null	Embedded trailer link of the movie
slug	Varchar	Not Null	Movie Slug Name
rating	Varchar	Not Null	Movie Ratings
cast	Varchar	Not Null	Cast of the movie
image	Varchar	Not Null	Movie Image
lang	Varchar	Not Null	Movie Shows are available at which language
imdb	Varchar	Not Null	IMDB Rating of the movie
rt	Varchar	Not Null	Rotten Tomatoes rating of the movie
created_at	Timestamp	Null	Row Created at which time
updated_at	Timestamp	Null	Row Updated at which time

Table Name: multiplexes

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Multiplex id)
name	Varchar	Not Null	Multiplex Name
address	Varchar	Not Null	Multiplex Address
contact	Varchar	Not Null	Contact information of the multiplex

email	Varchar	Not Null	Email Address of the multiplex
totalscreen	Varchar	Not Null	Total Screen Available in the particular multiplex
created_at	timestamp	Null	Row created at which time
updated_at	Timestamp	Null	Auto generated id (Multiplex id)

Table Name: movie_shows

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Movie Show id)
movieid	Bigint	Foreign Key	Movie id
multiplexid	Bigint	Foreign Key	Multiplex Id
screenid	Bigint	Foreign Key	Screen id
showdate	Date	Not Null	All dates at which movie shows are available
showtime	Time	Not Null	All dates at which movie shows are available
showtype	varchar	Not Null	Show Type (2D,3D,4DX)
showlang	varchar	Not Null	Language available for a particular movie show
normalprice	varchar	Not Null	Normal Ticket Price for a particular movie show
executiveprice	varchar	Not Null	Executive Ticket Price for a particular movie show
premiumprice	varchar	Not Null	Premium ticket Price for a particular movie show
totalseats	Varchar	Not Null	Total Seats available for movie show
created_at	Timestamp	Null	Row created at which time
updated_at	Timestamp	Null	Row updated at which time

Table Name: contact_us

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Contact us id)
userid	Bigint	Foreign Key	User id
fullname	Varchar	Not Null	User Full Name
email	Varchar	Not Null	User email

subject	Varchar	Not Null	Subject of the message
message	Varchar	Not Null	Message user wants to send
created_at	timestamp	Null	Row created at which time
updated_at	timestamp	Null	Row updated at which time

Table Name: password_resets

Field Name	Data Type	Constraint	Description
email	Varchar	Foreign Key	User email
token	Varchar	Not Null	Auto generated token
created_at	Timestamp	Null	Row created at which time

Table Name: upcomings

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Upcoming Movie id)
moviename	Varchar	Not Null	Upcoming Movie Name
description	Varchar	Not Null	Description of the movie
realasedate	Varchar	Not Null	Release Date of the movie
genre	Varchar	Not Null	Movie genre
type	Varchar	Not Null	Movie Type(2D,3D,4DX)
trailerlink	Varchar	Not Null	Trailer Link of the movie
Slug	Varchar	Not Null	Movie slug name
Cast	Varchar	Not Null	All cast of movies
image	Varchar	Not Null	Movie image
lang	Varchar	Not Null	All languages available of the movie
created_at	Timestamp	Null	Row created at which time
updated_at	Timestamp	Null	Row updated at which time

Table Name: screens

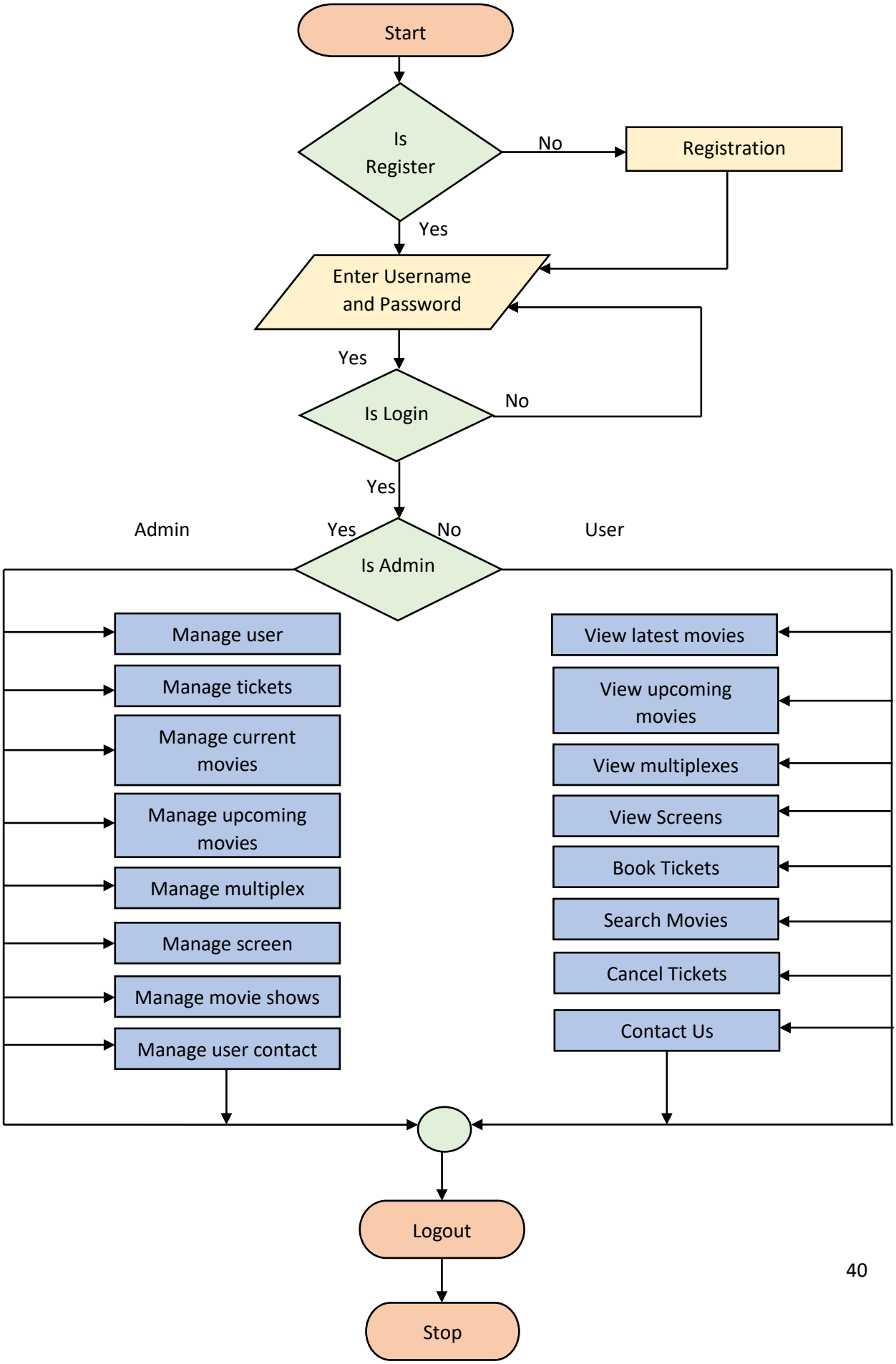
Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Screen id)
screenno	Varchar	Not Null	Screen Number
screenname	Varchar	Not Null	Screen Name
multiplexed	Bigint	Not Null	Multiplex Id

created_at	timestamp	Null	Row created at which time
updated_at	timestamp	Null	Row updated at which time

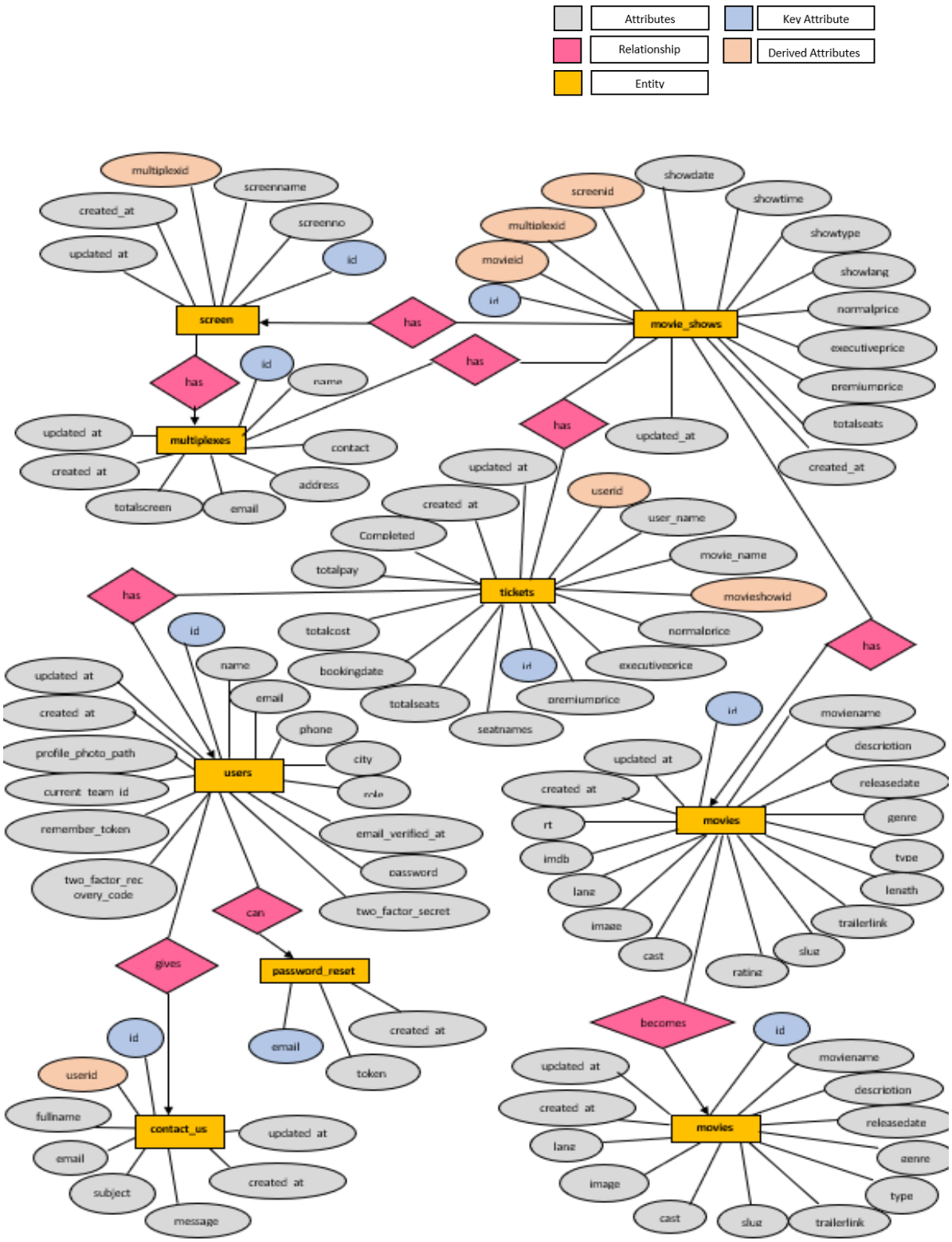
Table Name: tickets

Field Name	Data Type	Constraint	Description
id	Bigint	Primary Key	Auto generated id (Ticket id)
userid	Bigint	Foreign Key	User id
user_name	String	Not Null	User name of the person booking tickets for the show
movie_name	String	Not Null	Name of the movie
movieshowid	Bigint	Foreign Key	Movie show id
normalprice	varchar	Not Null	Normal Price of the movie show
executiveprice	varchar	Not Null	Executive Price of the movie show
premiumprice	varchar	Not Null	Premium Price of the movie show
seatnames	varchar	Not Null	Seat Names which the user had booked for the movie show
totalseats	varchar	Not Null	Total seats which the user has booked for the movie show
bookingdate	Date	Not Null	Booking date of the show
totalcost	varchar	Not Null	Total cost the user had paid for tickets
totalpay	varchar	Not Null	Total Payment which the user had paid
Completed	varchar	Not Null	User had completed the payment of not.
created_at	timestamp	Null	Row created at which time
updated_at	timestamp	Null	Row updated at which time

7.2 System Flow Chart

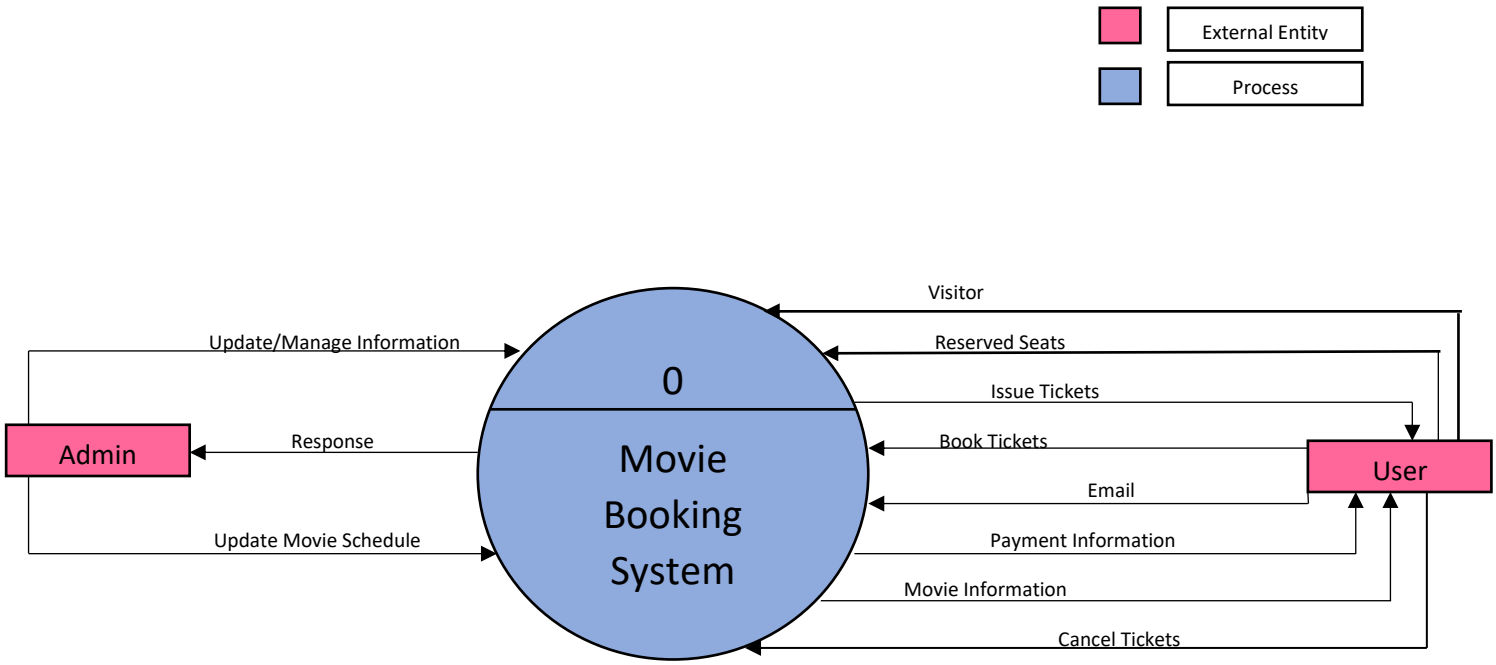


7.3 Entity-Relationship Diagram

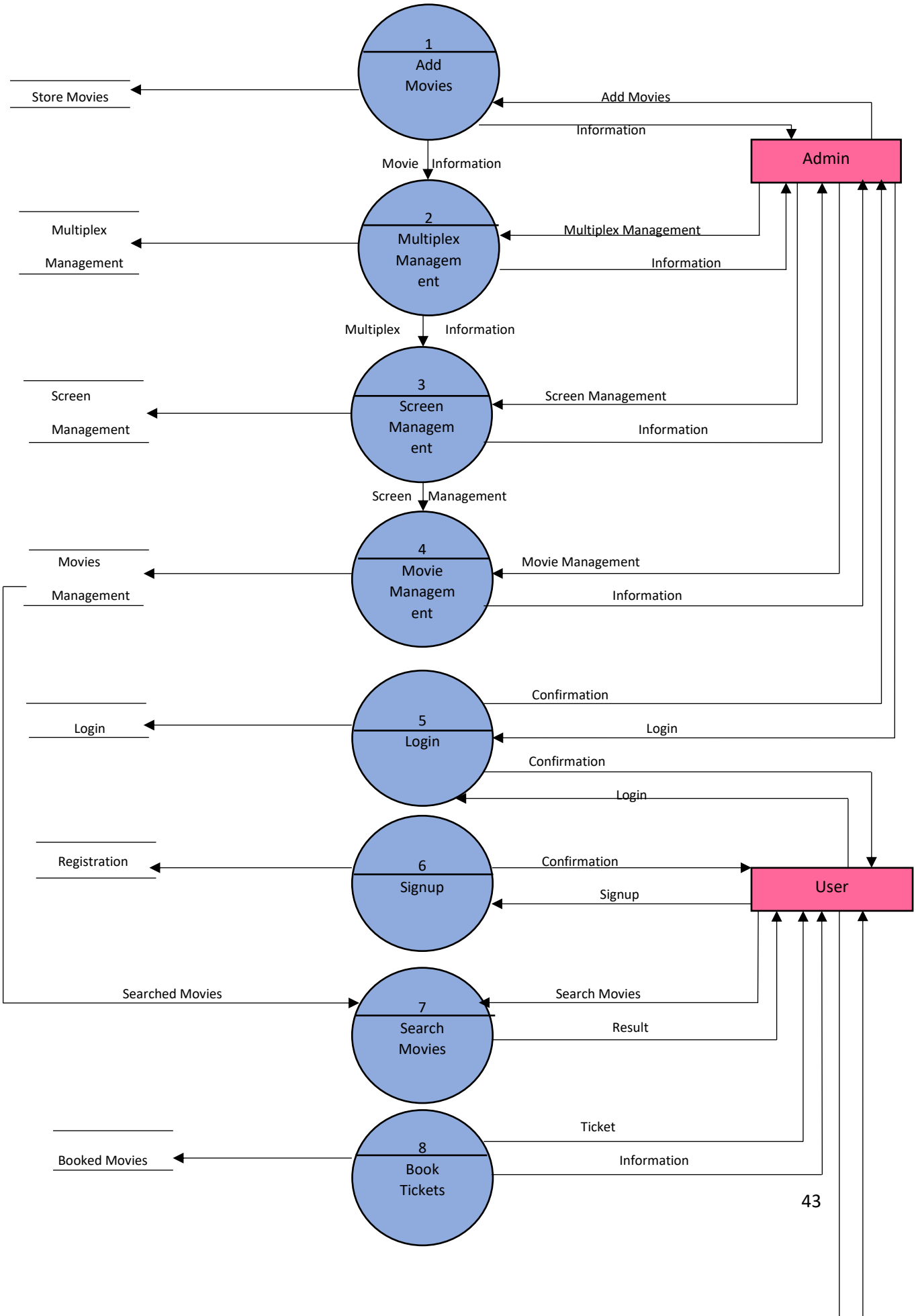


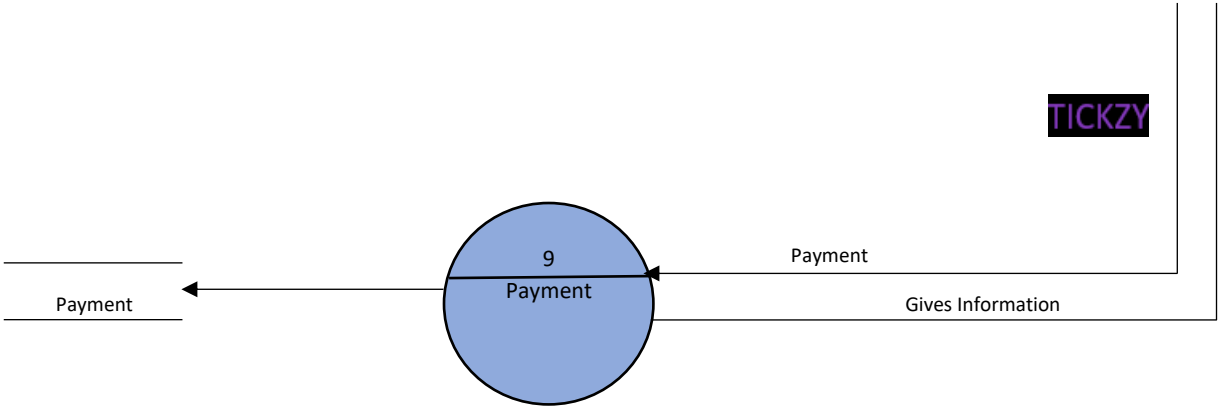
7.4 Data Flow Diagram

0-Level DFD:

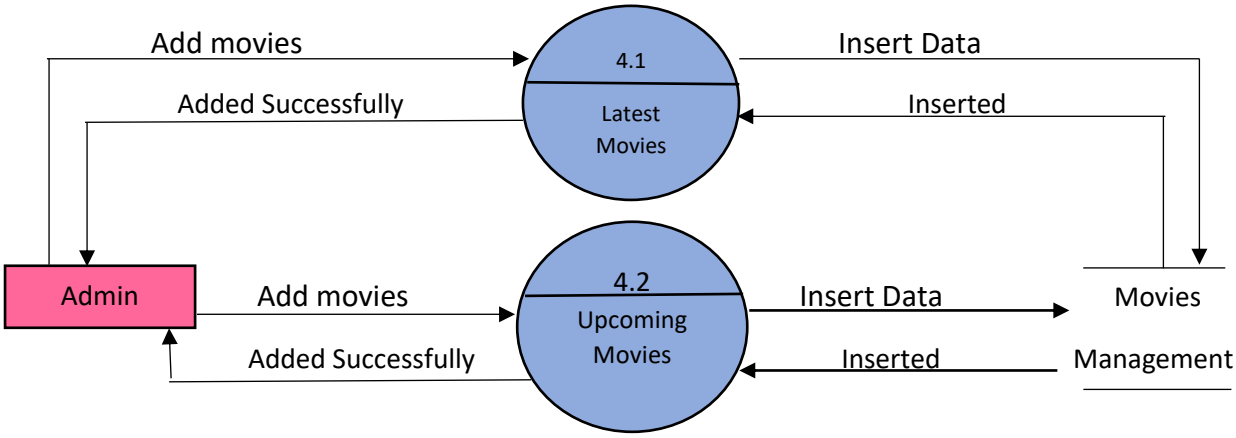


1-Level DFD:

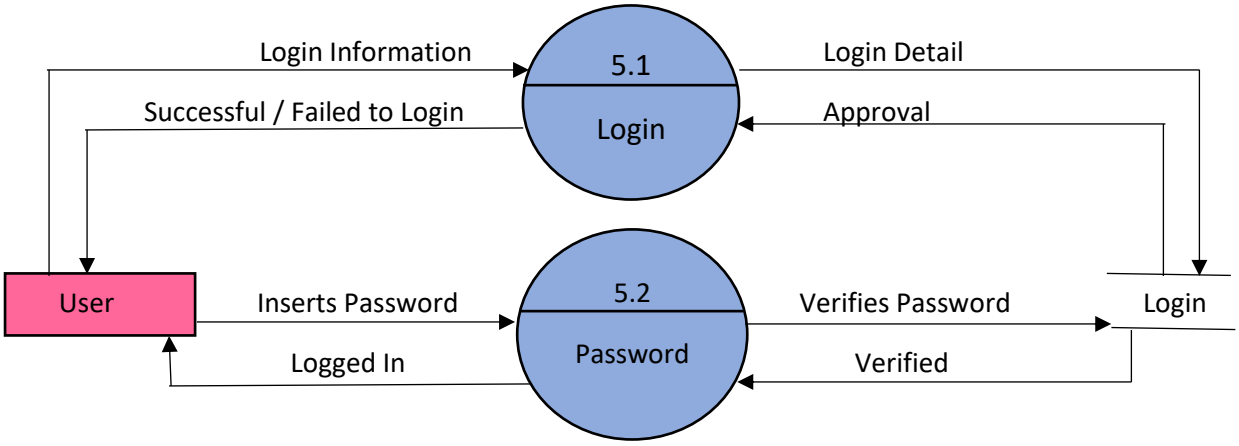

1
Add Movies
Store Movies
Add Movies
Information
Admin
Movie Information
2
Multiplex Managem ent
Multiplex Management
Multiplex
Management
Information
Multiplex Information
3
Screen Managem ent
Screen Management
Screen
Management
Information
Screen Management
4
Movie Managem ent
Movie Management
Movies
Management
Information
Confirmation
5
Login
Login
Login
Confirmation
Login
6
Signup
Confirmation
Signup
Registration
User
Searched Movies
7
Search Movies
Search Movies
Result
Ticket
8
Book Tickets
Information
Booked Movies



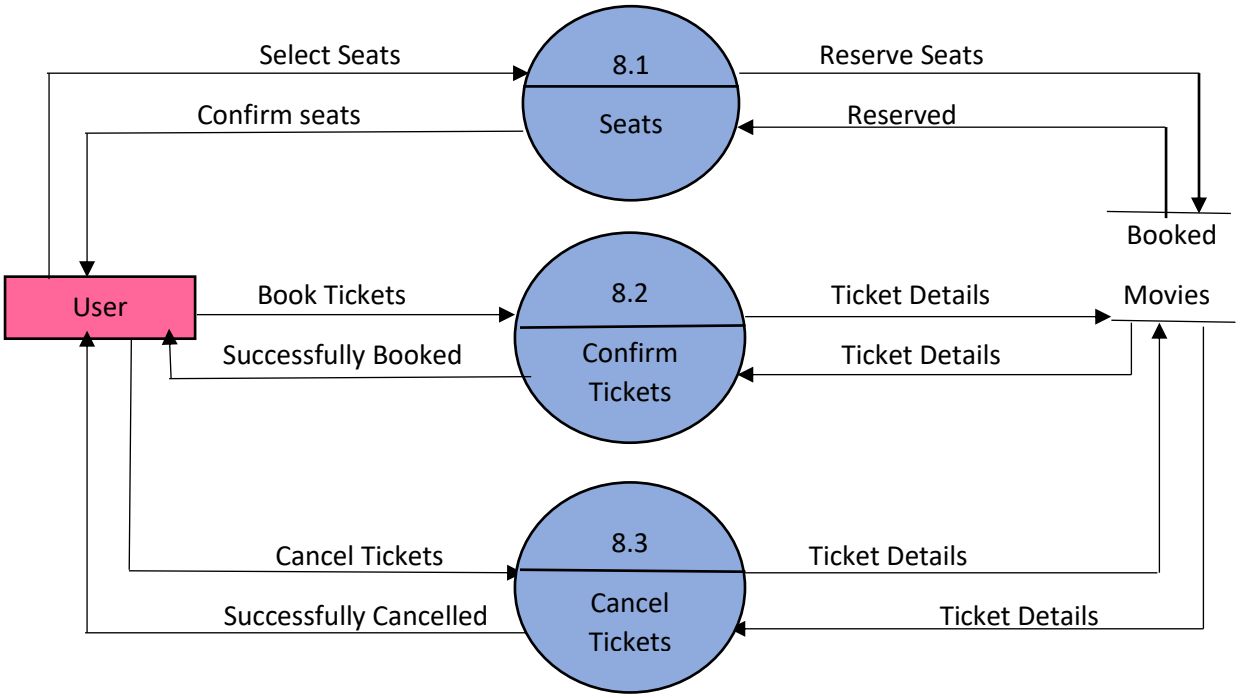
2-Level DFD of Movie Management:



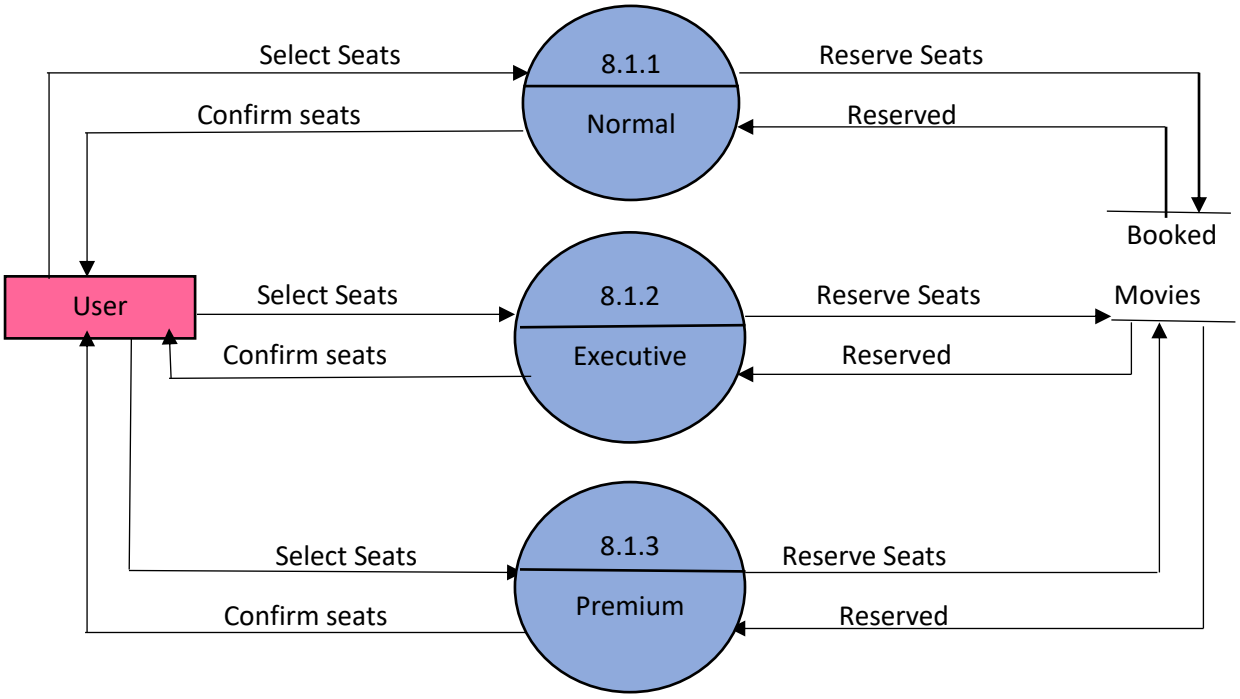
2-Level DFD of Login:



2-Level DFD of Book Tickets:



3-Level DFD of Seats:



7.5 Data Dictionary

Users Table

Table Name	users
Alias Name	users
Source	User, Admin
Destination	Admin
Description	Information about all users and admin detail.

Movies Table

Table Name	movies
Alias Name	movies
Source	Admin
Destination	User
Description	Information about all movies that are available for movie shows.

Upcomings Table

Table Name	upcomings
Alias Name	upcomings
Source	Admin
Destination	User
Description	Information about all upcoming movies.

Multiplexes Table

Table Name	multiplexes
Alias Name	multiplexes
Source	Admin
Destination	User
Description	Information about all multiplex that are available for movie shows.

Screens Table

Table Name	screens
Alias Name	screens
Source	Admin
Destination	User
Description	Information about all screen that are available for movie shows.

Movie Shows Table

Table Name	movie_shows
Alias Name	movie_shows
Source	Admin
Destination	User
Description	Information about all movie shows.

Contact Us Table

Table Name	contact_us
Alias Name	contact_us
Source	Admin,User
Destination	Admin,User
Description	Information to contact admin for any feedback.

Migration Table

Table Name	migrations
Alias Name	migrations
Source	Admin
Destination	User
Description	Information about all columns that have migrated.

Password Resets Table

Table Name	password_resets
Alias Name	password_resets
Source	User
Destination	Admin, User
Description	Information about password reset of user.

Sessions Table

Table Name	sessions
Alias Name	sessions
Source	Admin, User
Destination	Admin
Description	Information about all user or admin logged in.

Tickets Table

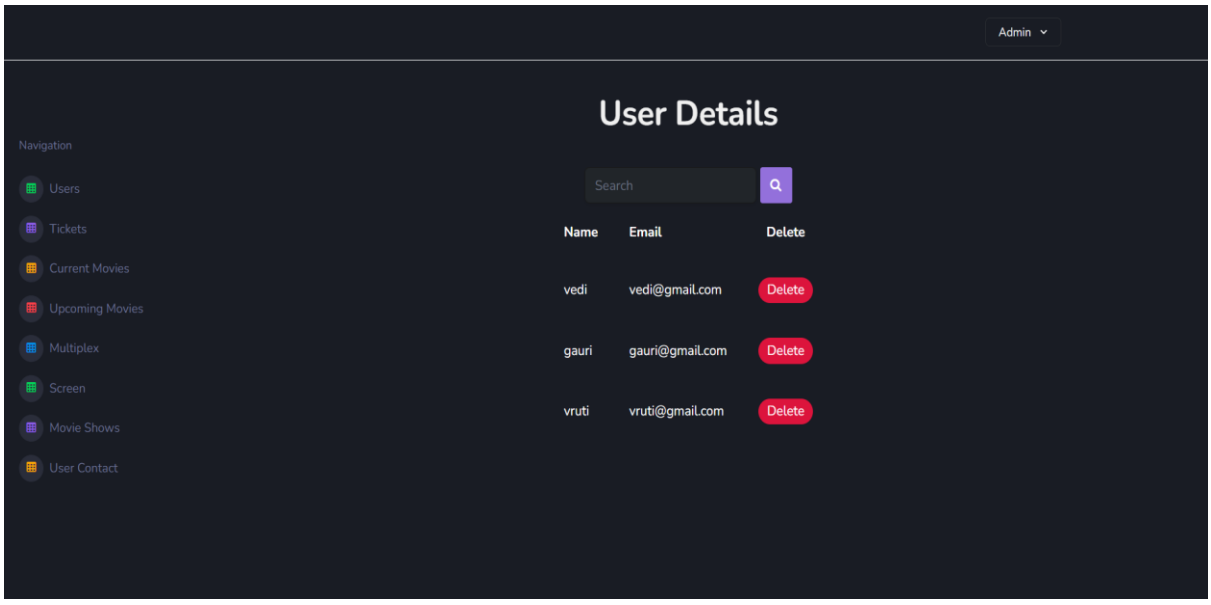
Table Name	tickets
Alias Name	tickets
Source	User
Destination	User
Description	Information about tickets that user has booked.

8. Designing

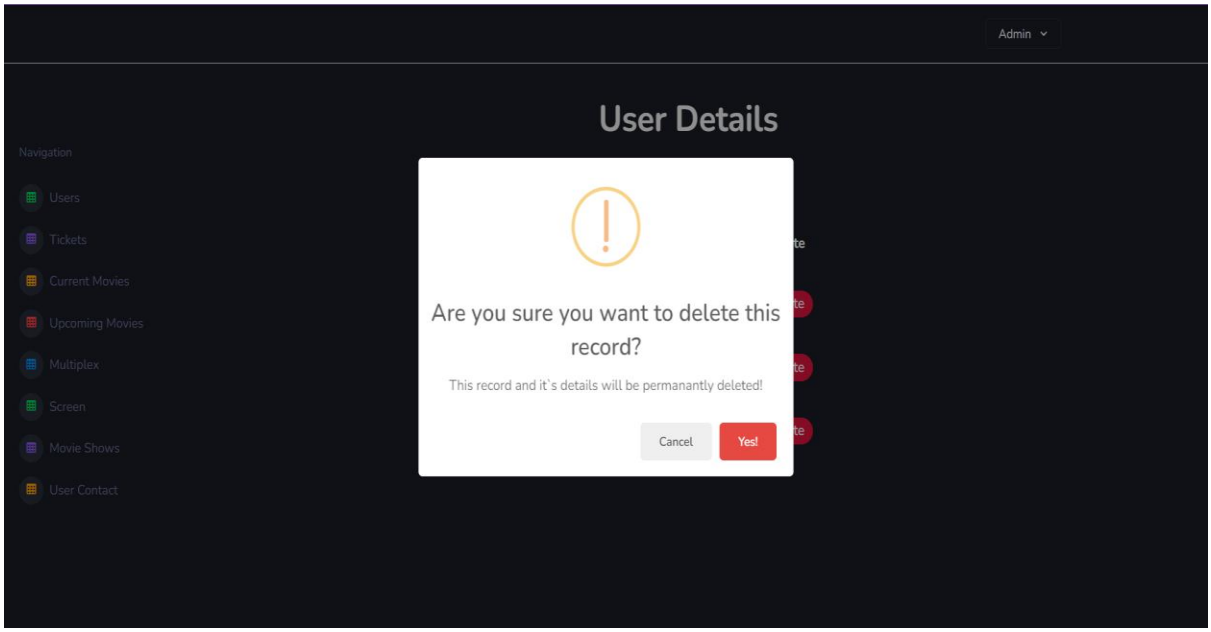
8.1 Admin Panel

Dashboard :-

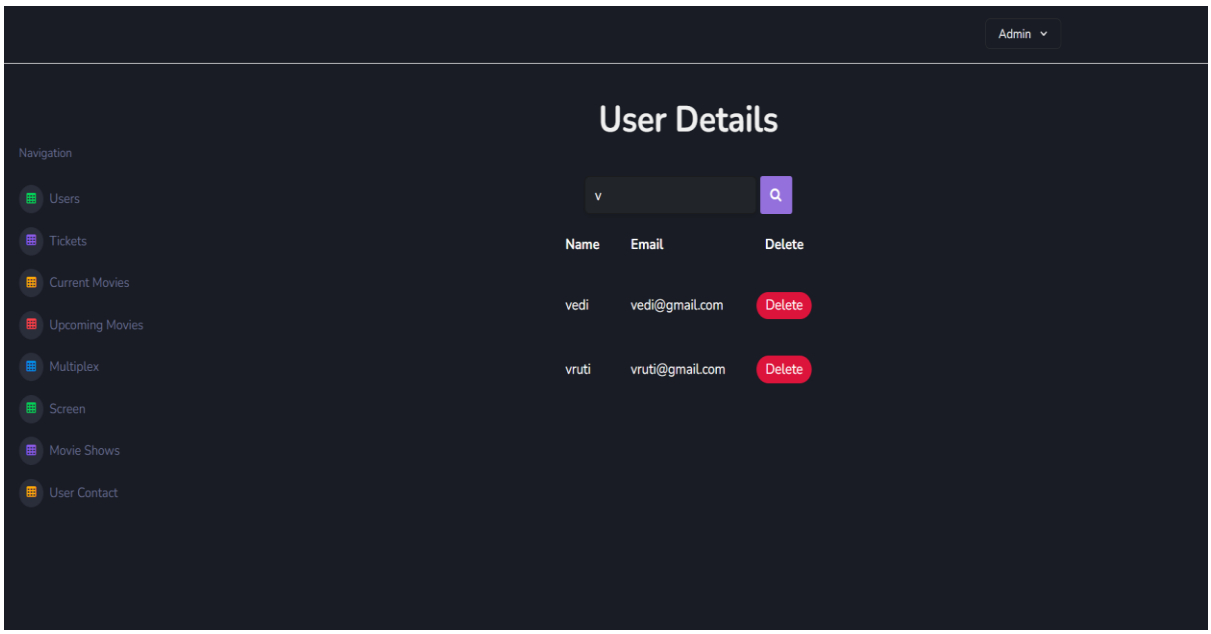
Users :-



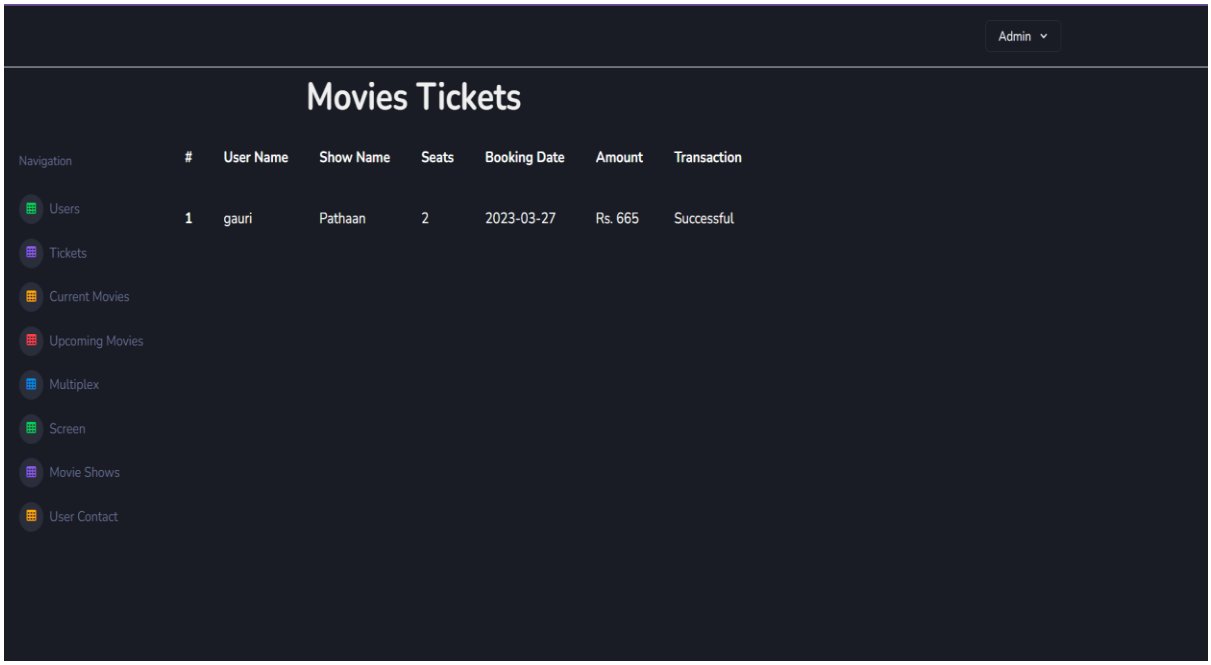
Delete Users :-



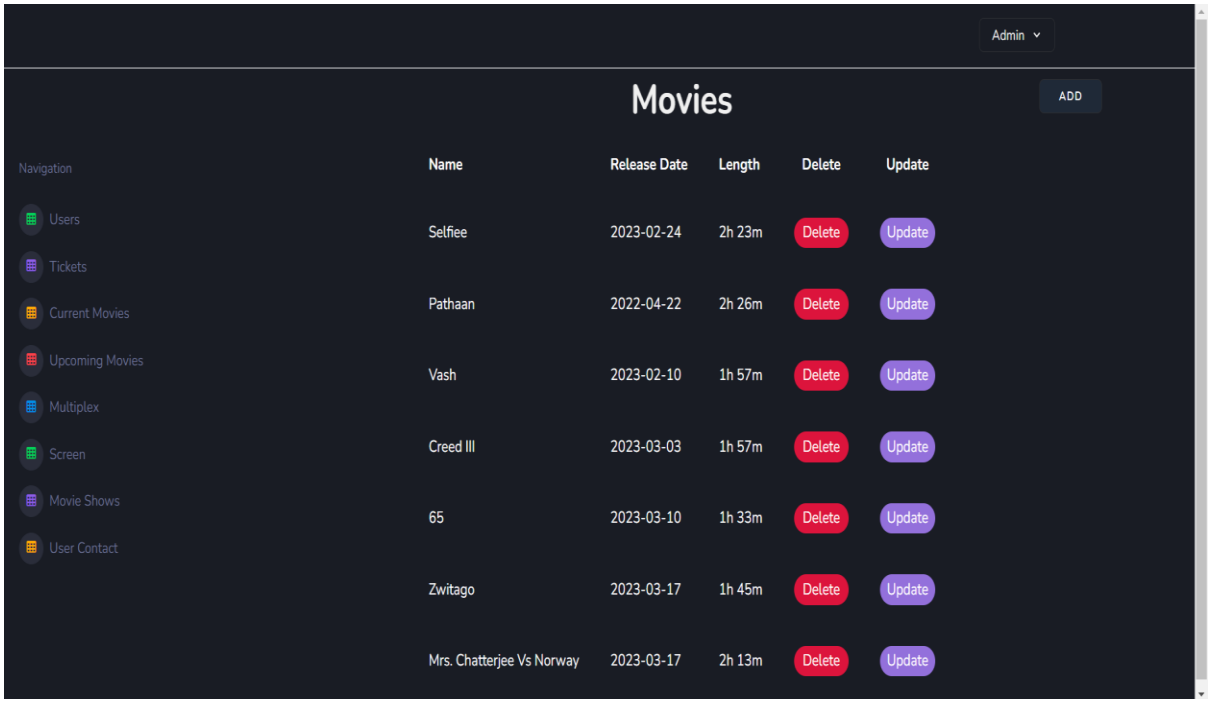
Search Users :-



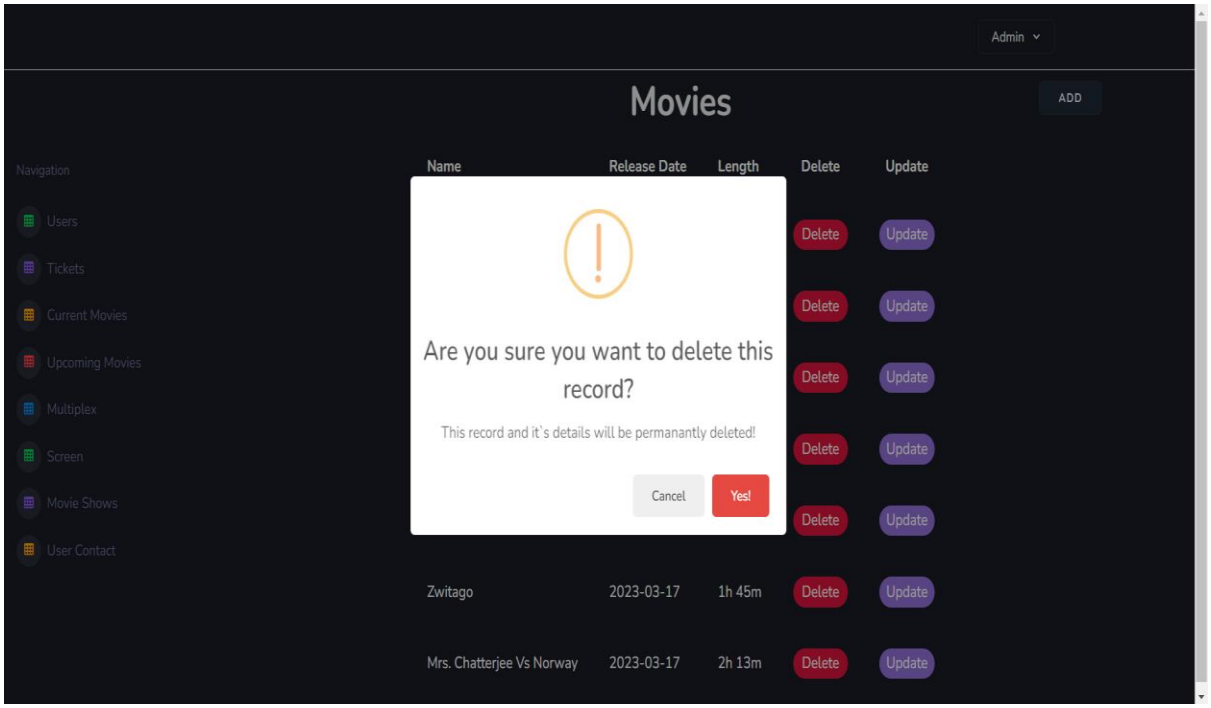
Tickets :-



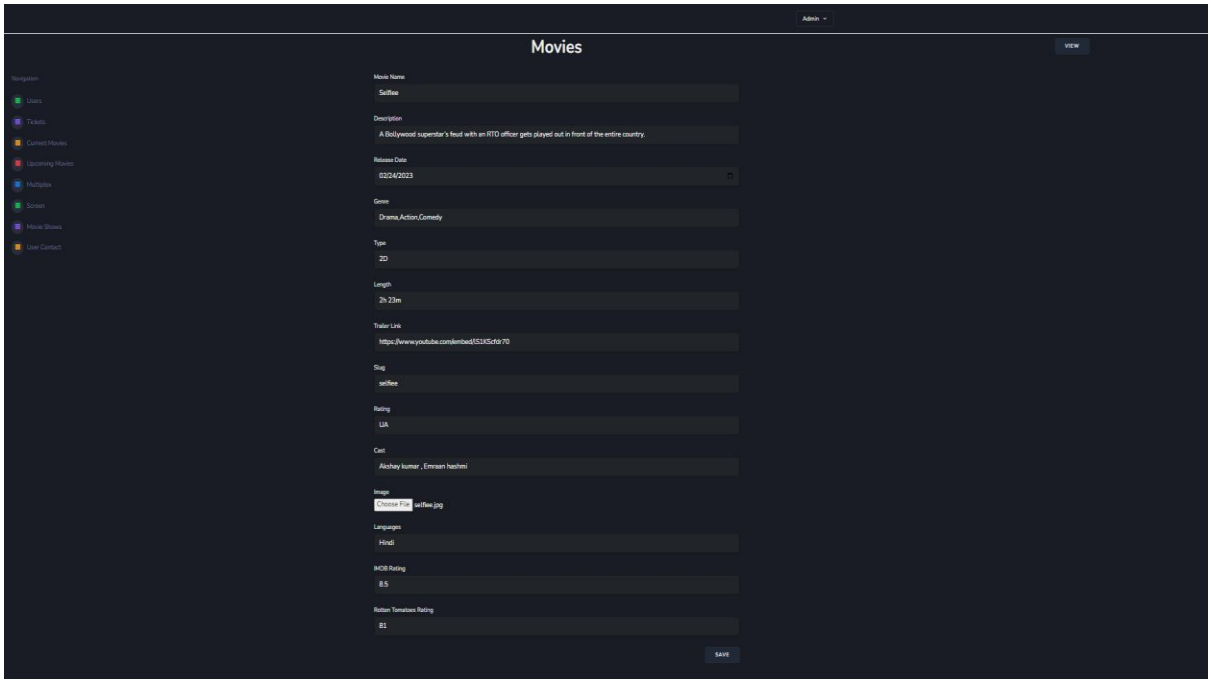
Current Movies :-



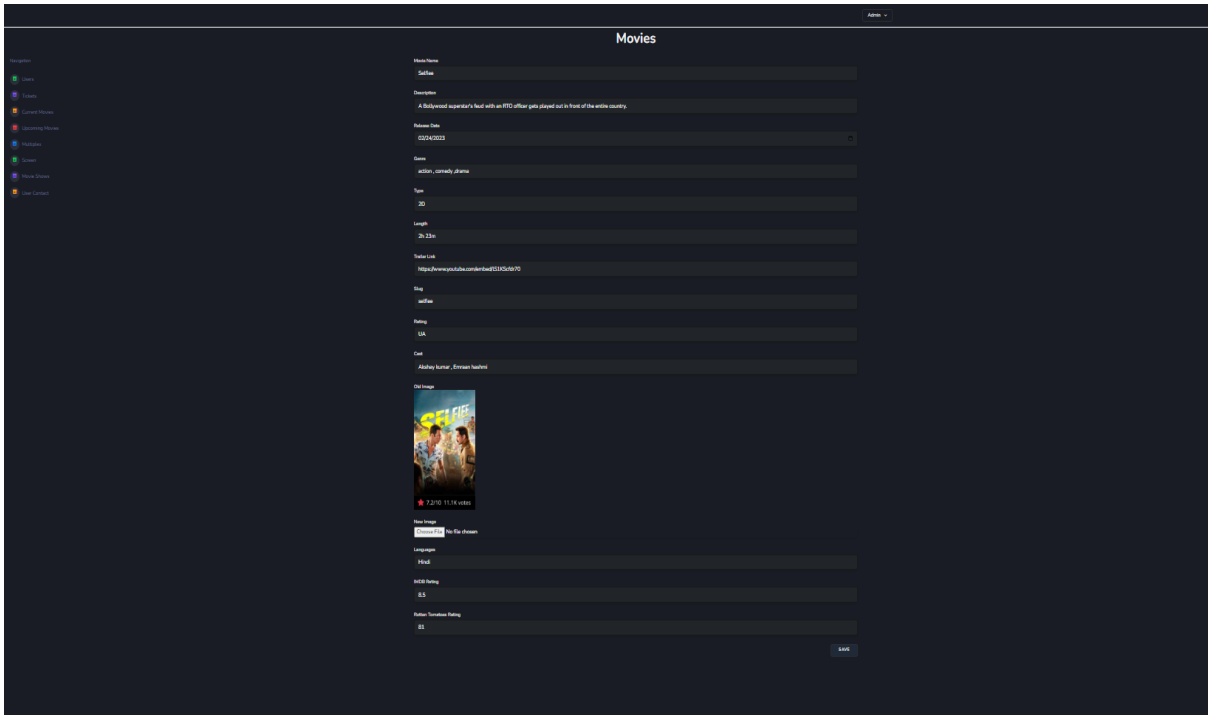
Delete Movies :-



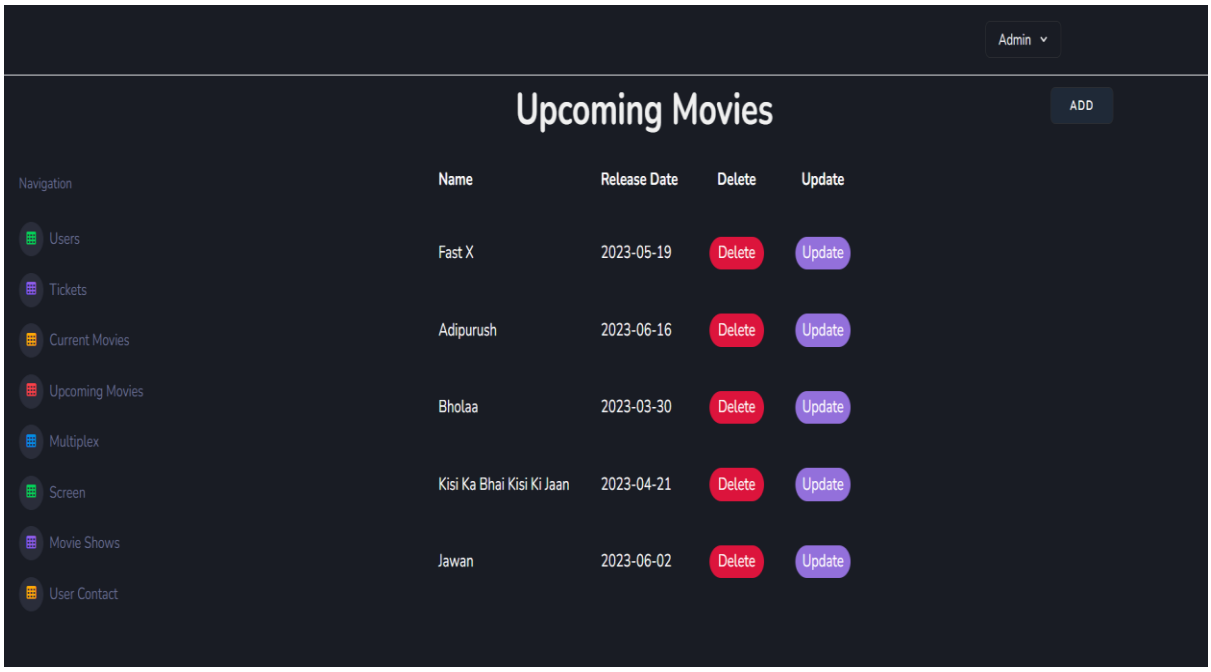
Add Movies :-



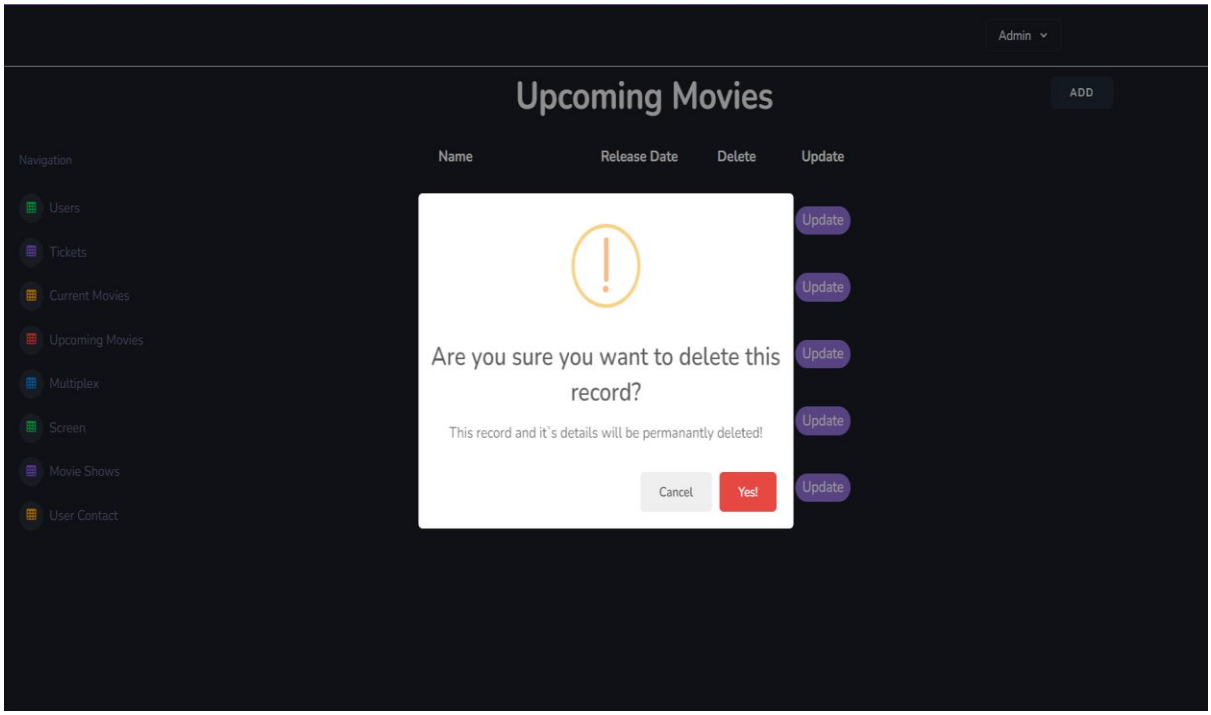
Update Movies :-



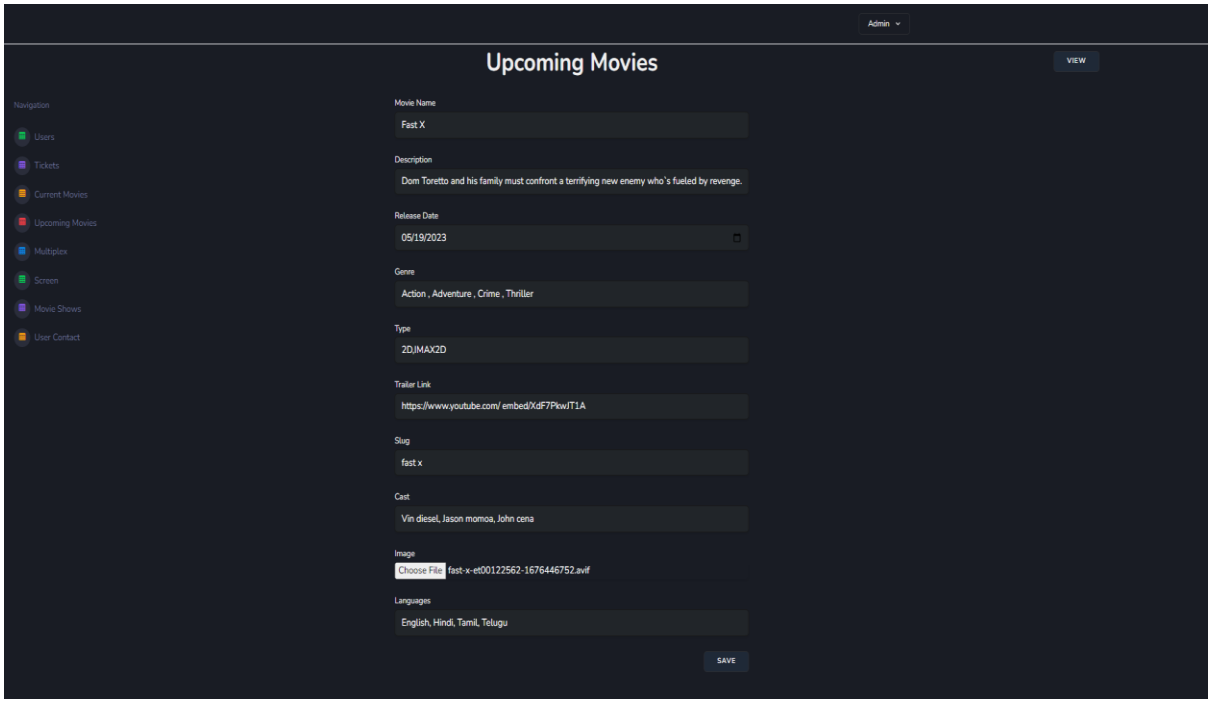
Upcoming Movies :-



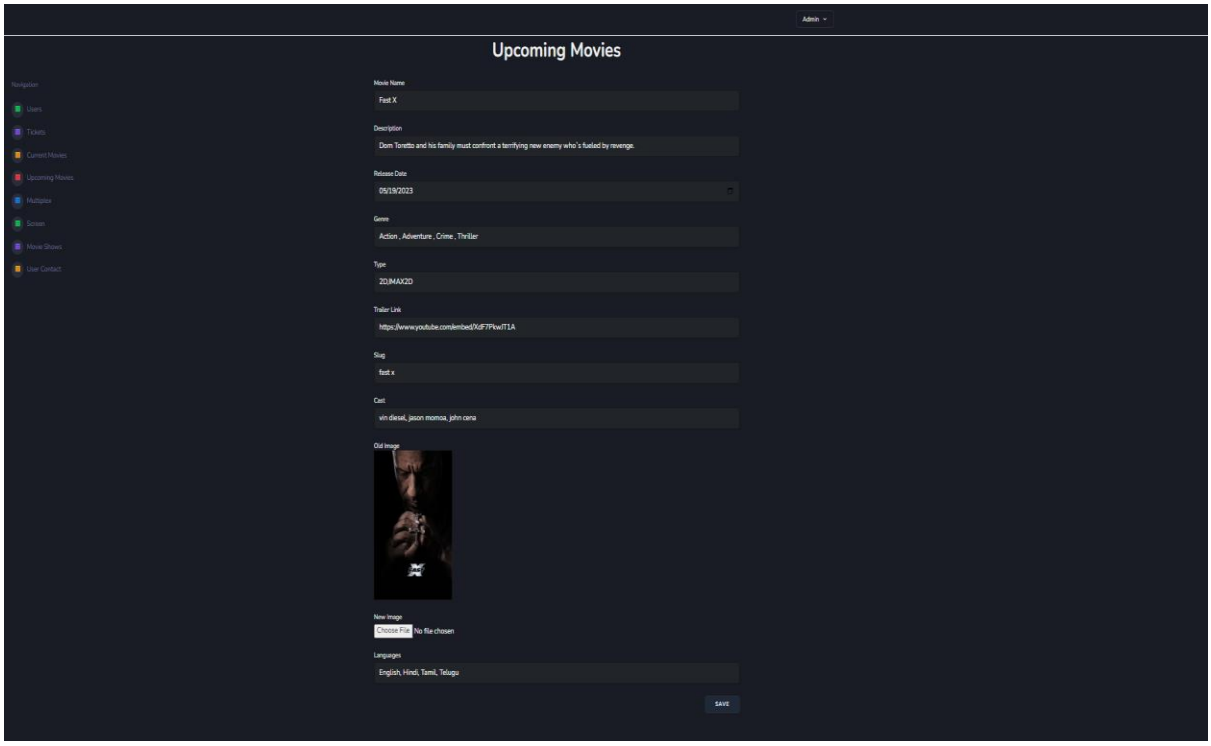
Delete Upcoming Movies :-



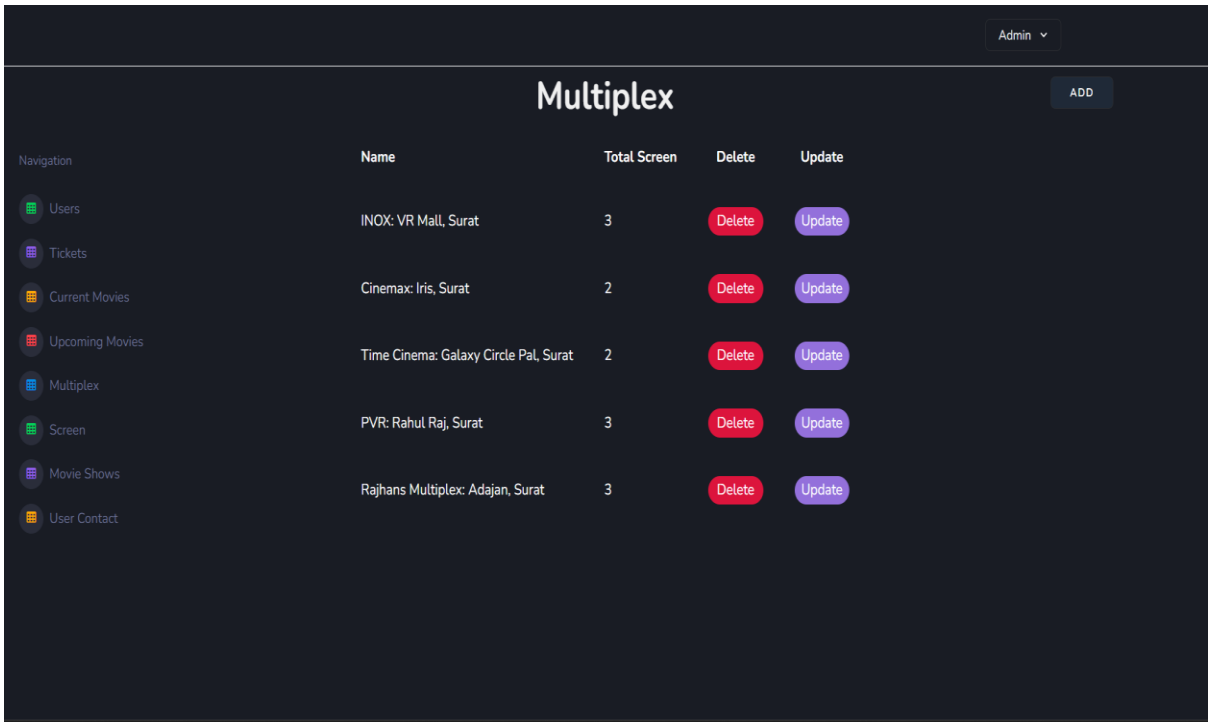
Add Upcoming Movies :-



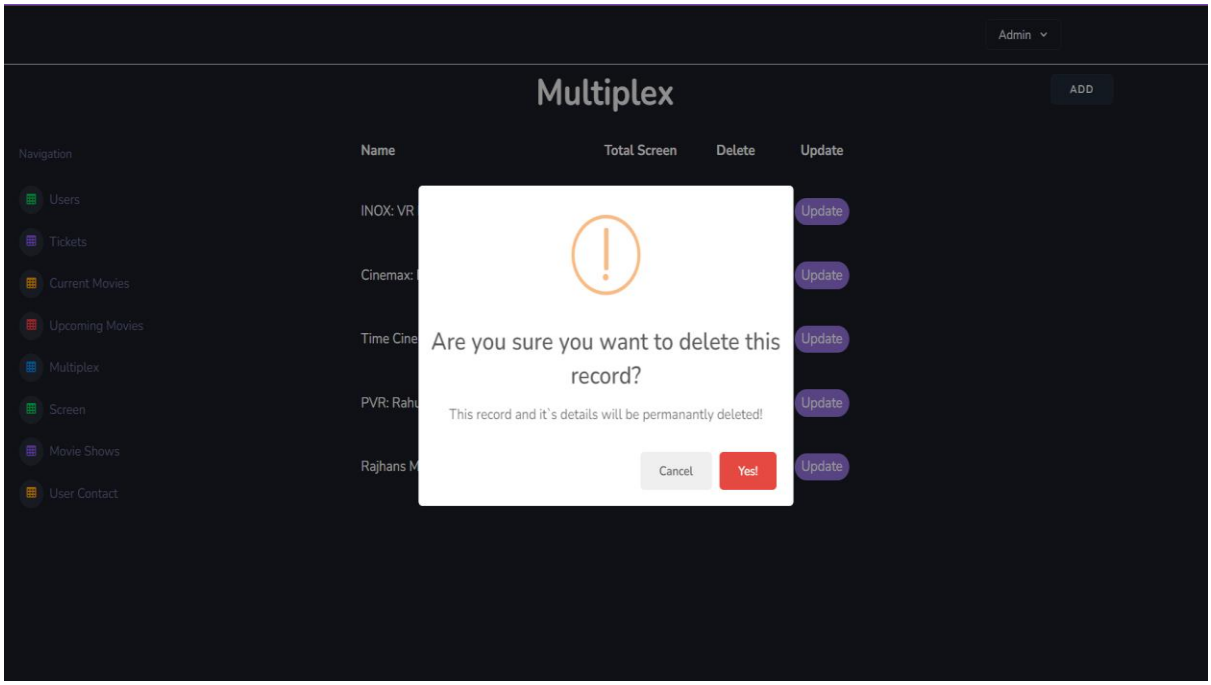
Update Upcoming Movies :-



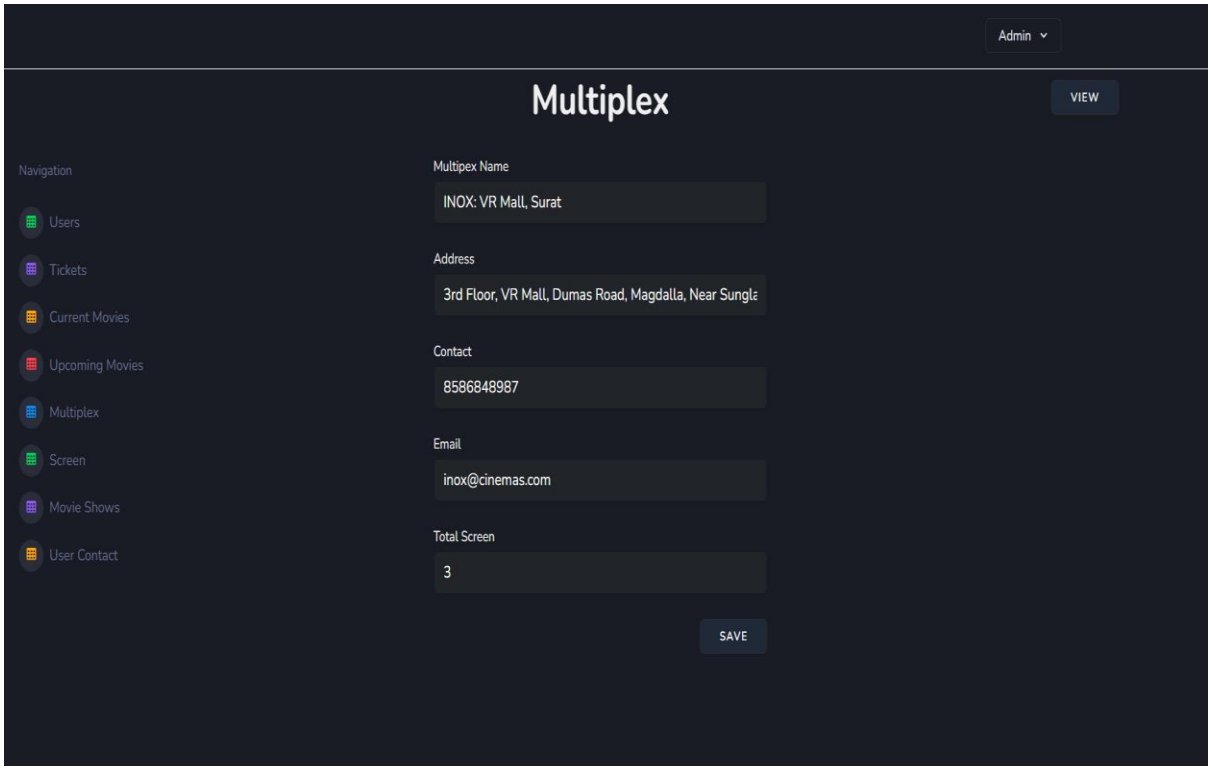
Multiplex :-



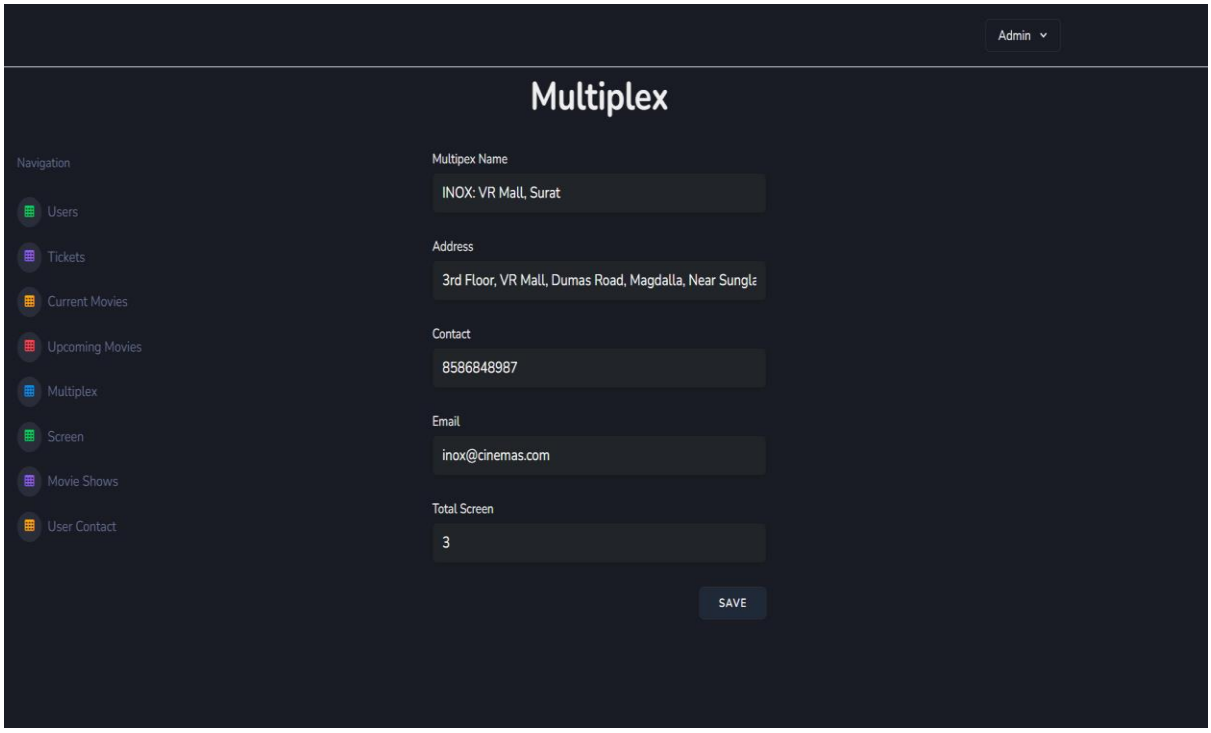
Delete Multiplex :-



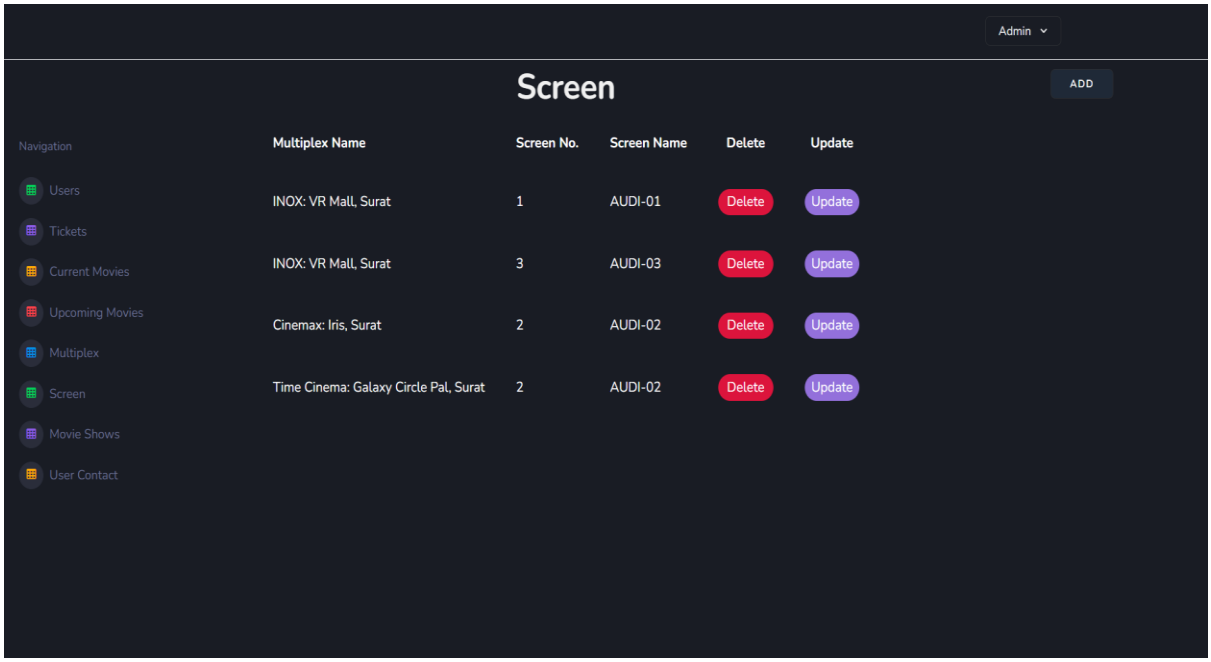
Add Multiplex :-



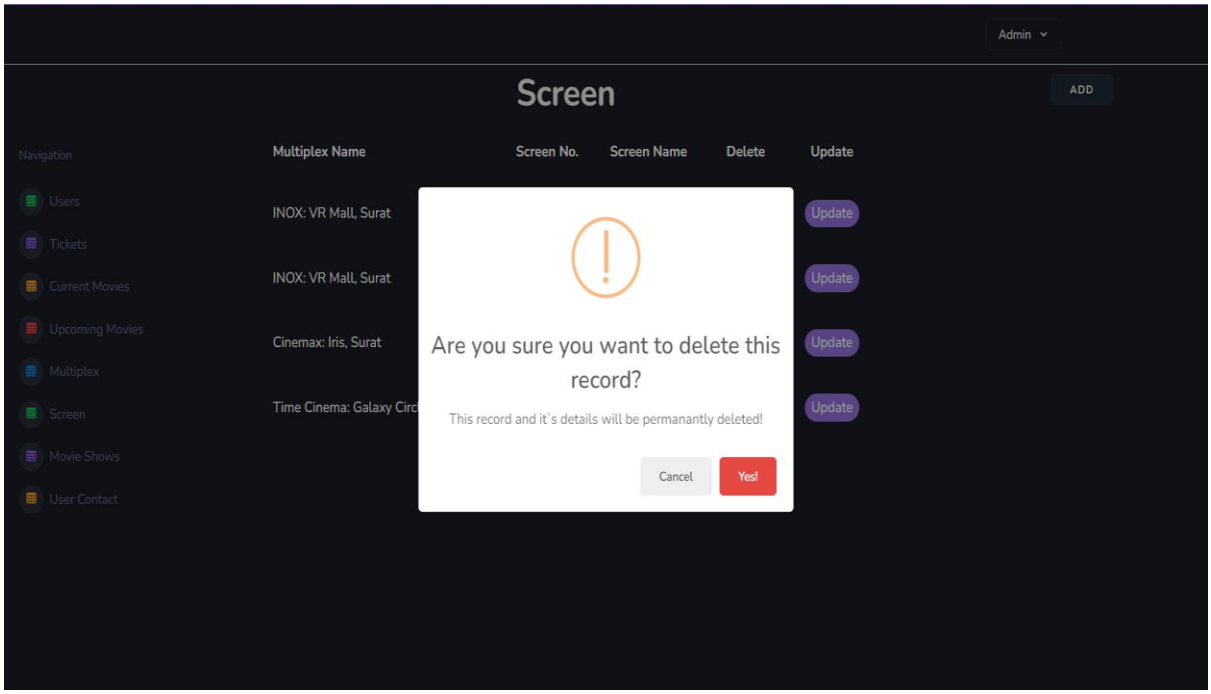
Update Multiplex :-



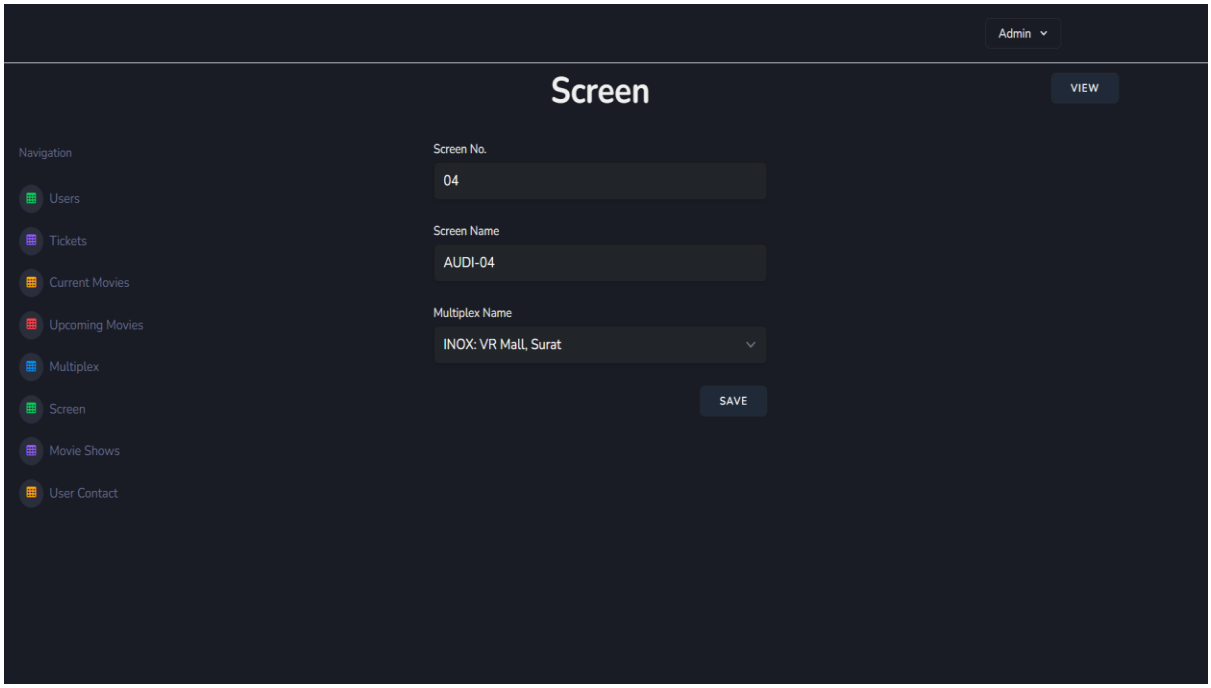
Screen :-



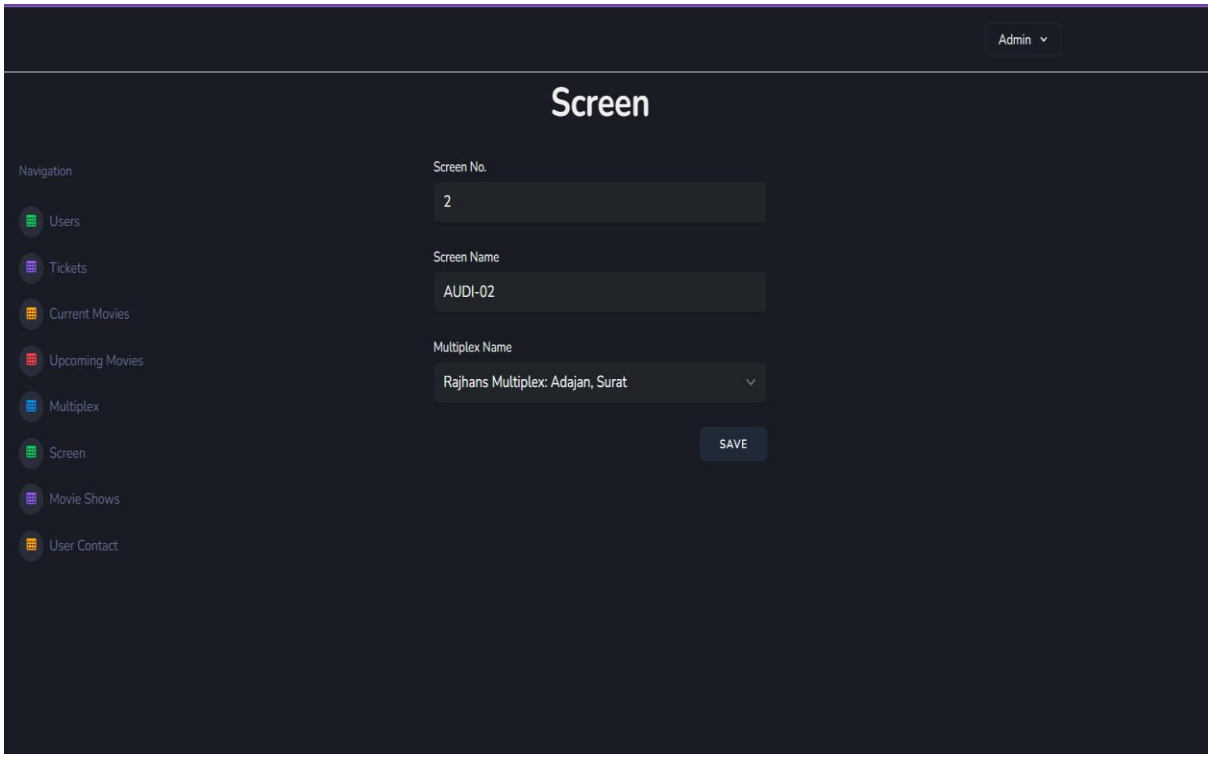
Delete Screen :-



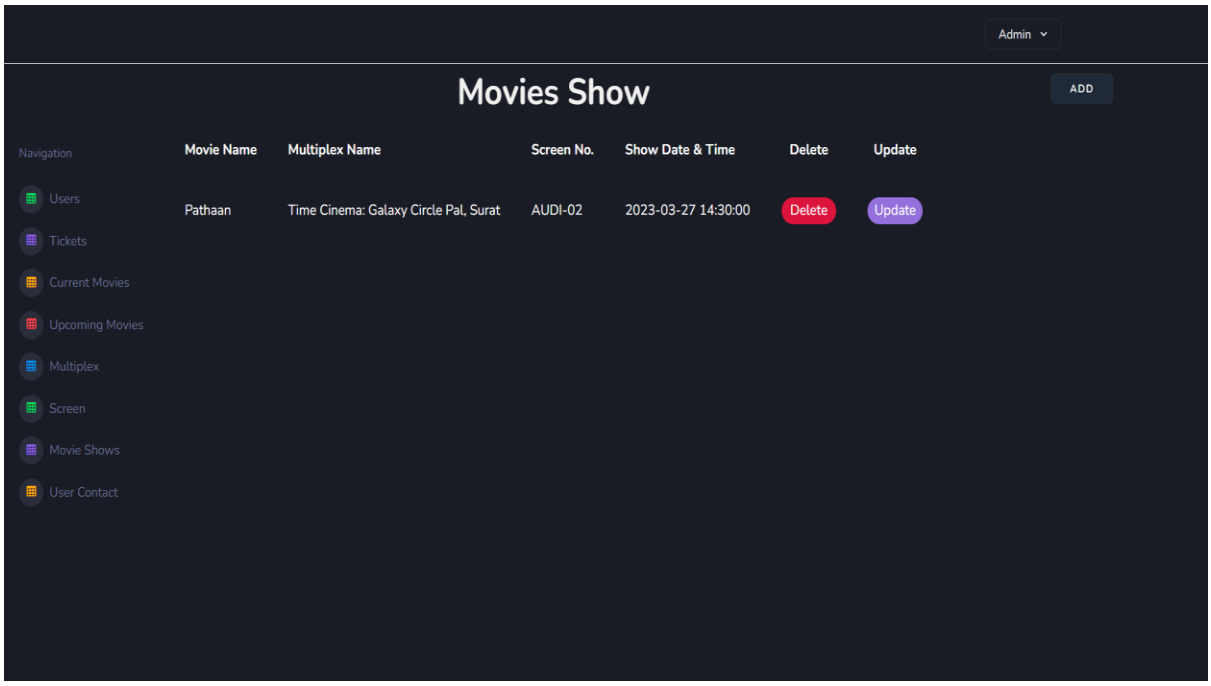
Add Screen :-



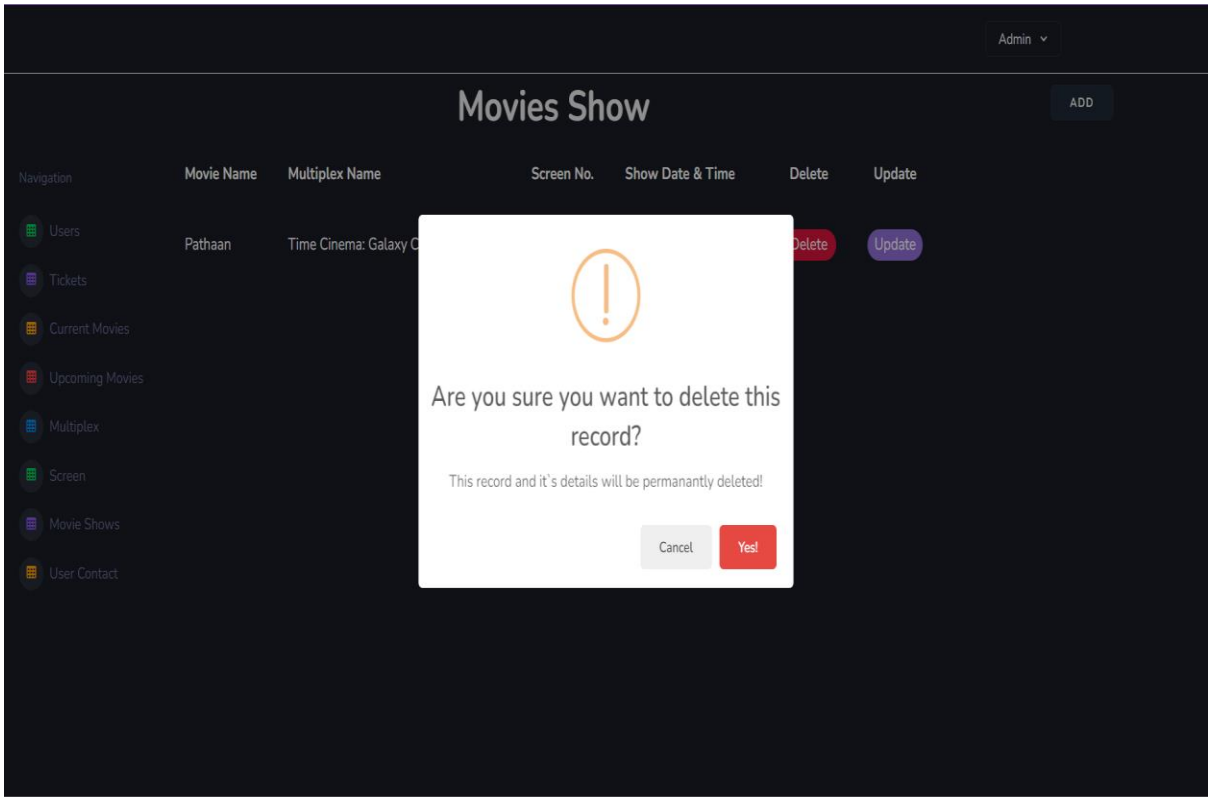
Update Screen :-



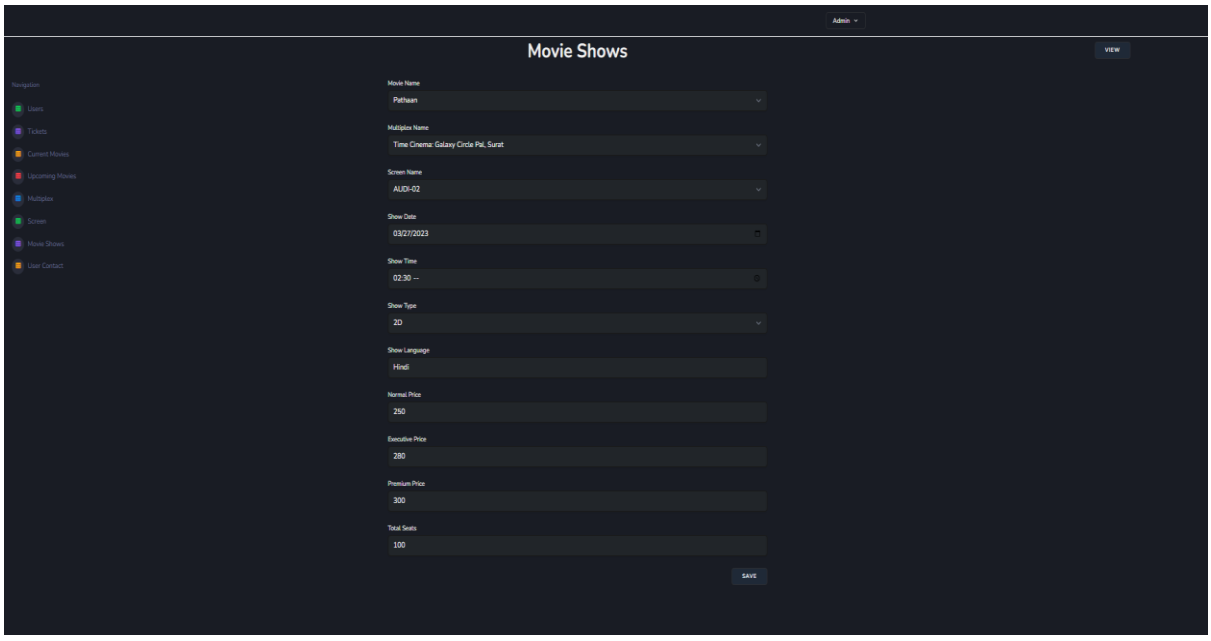
Movie Shows :-



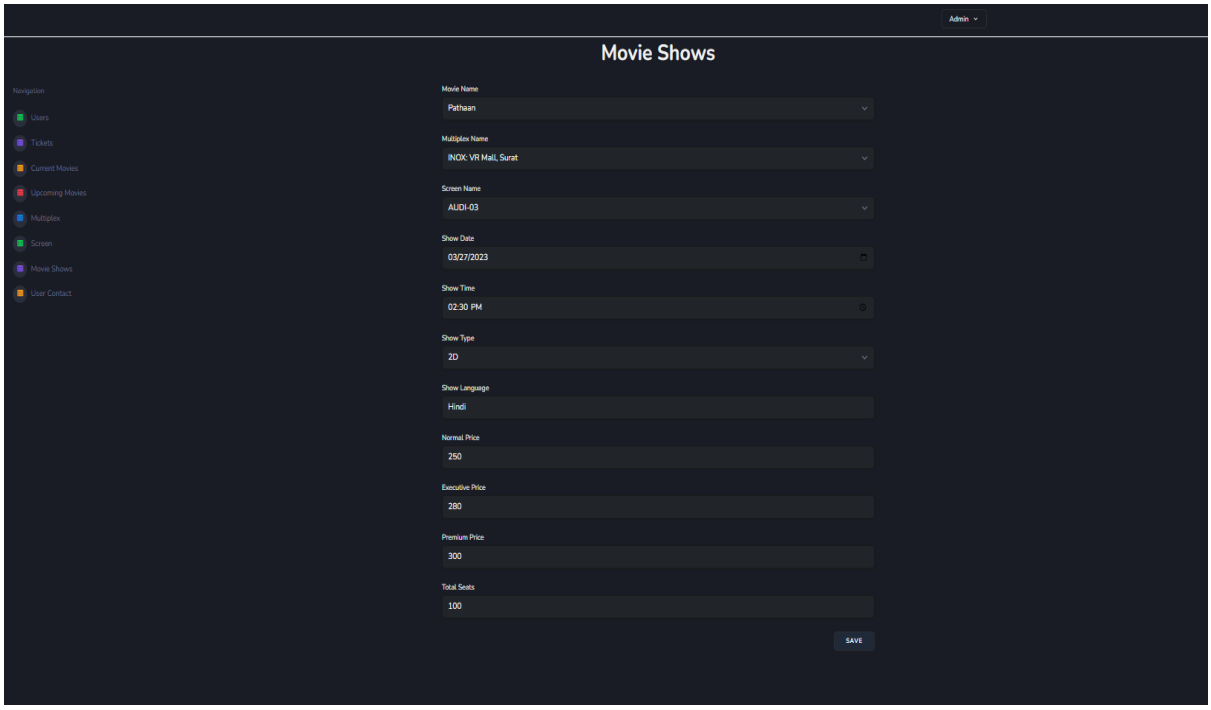
Delete Movie Shows :-



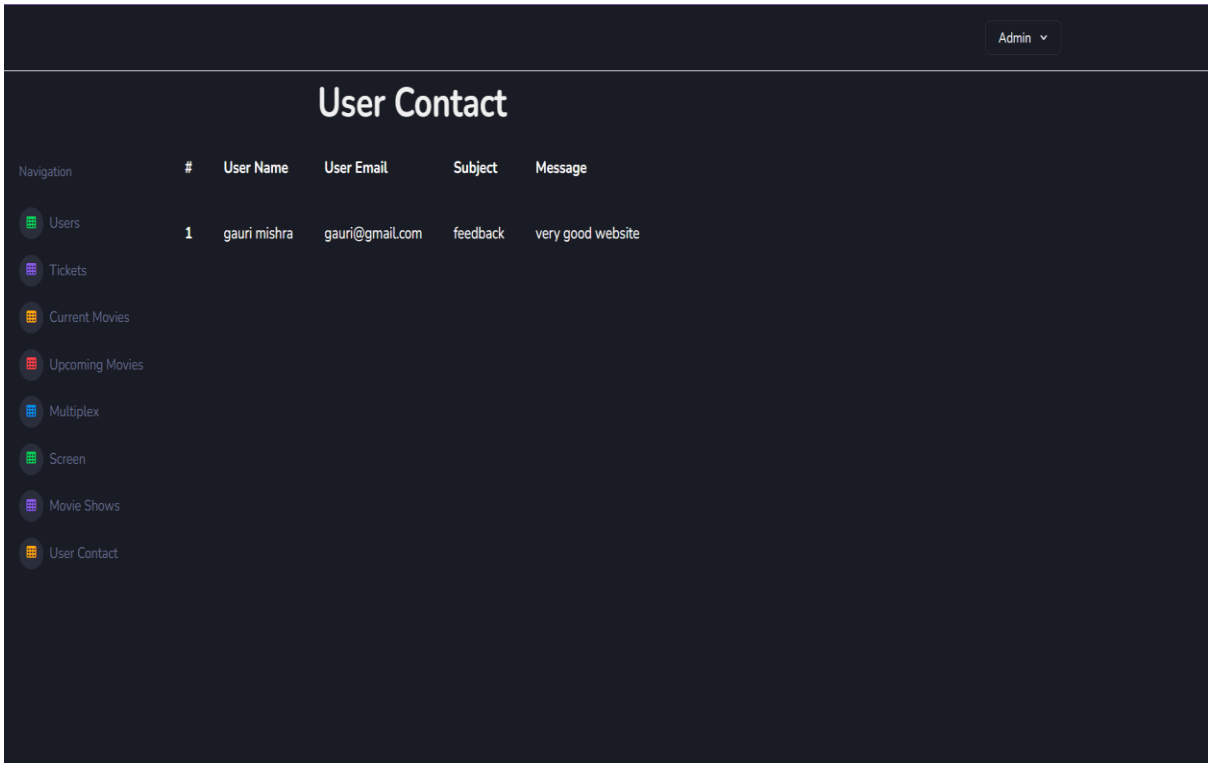
Add Movie Shows :-



Update Movie Shows :-

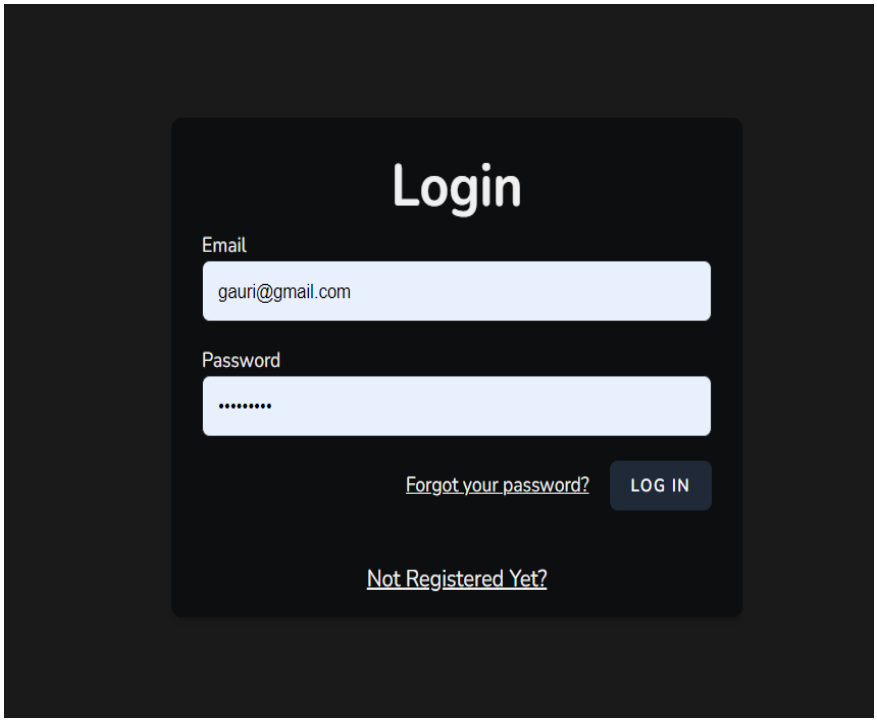


User Contact :-

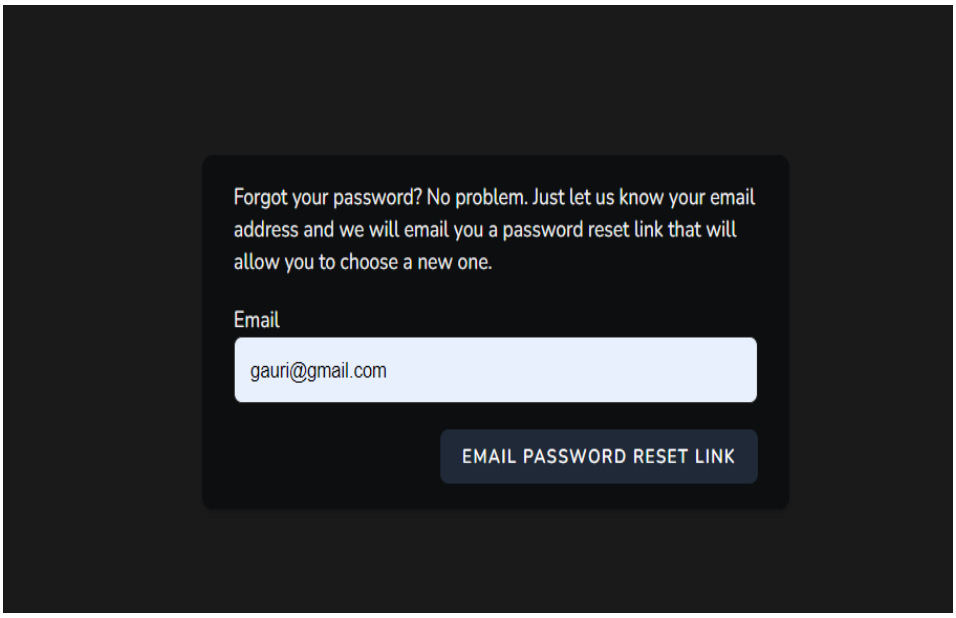


8.2 User Panel

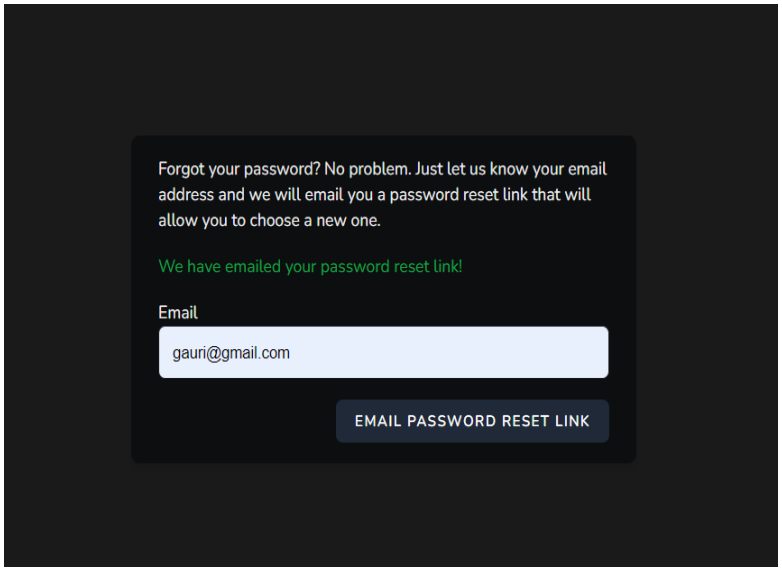
Login :-

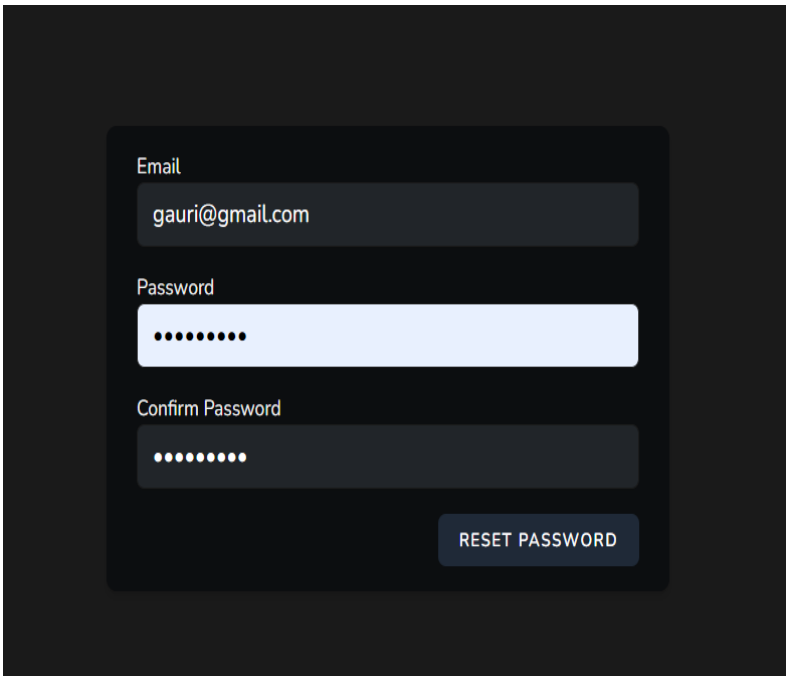


Forgot Password :-

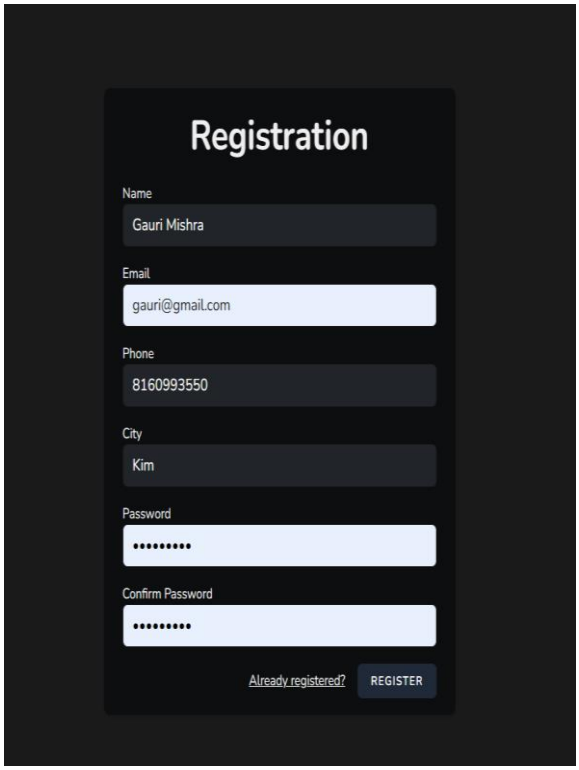


Reset Password :-

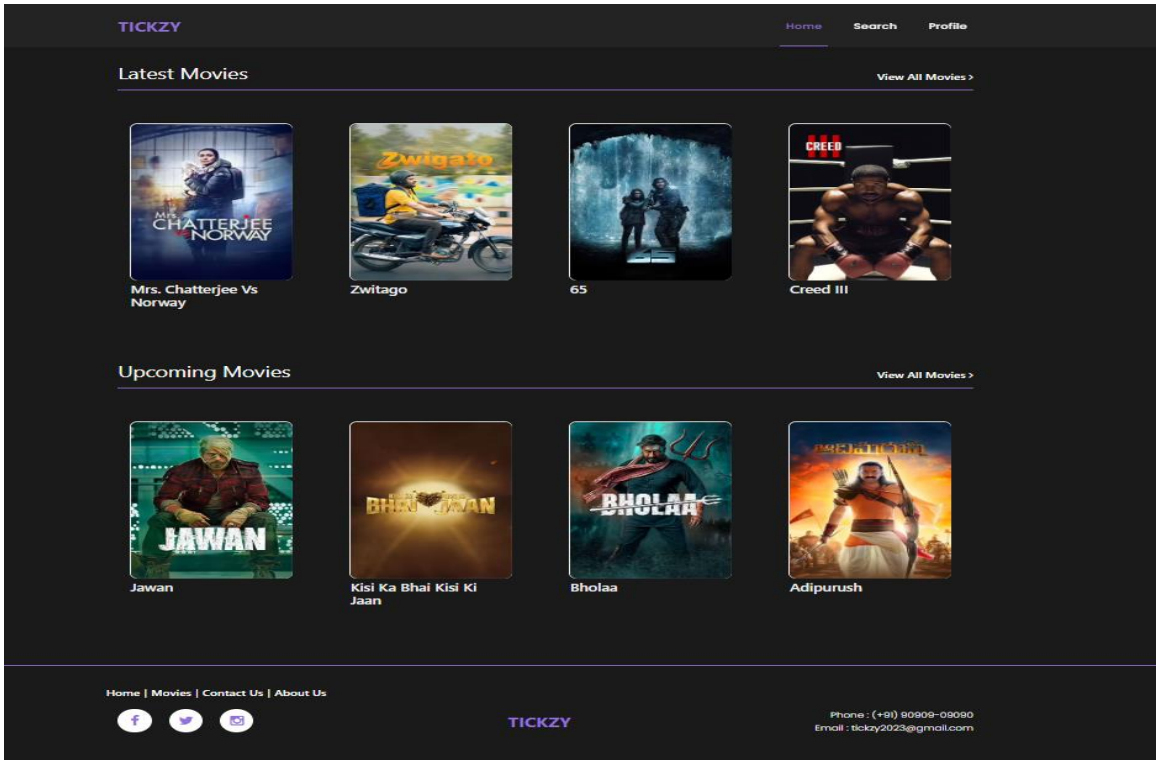




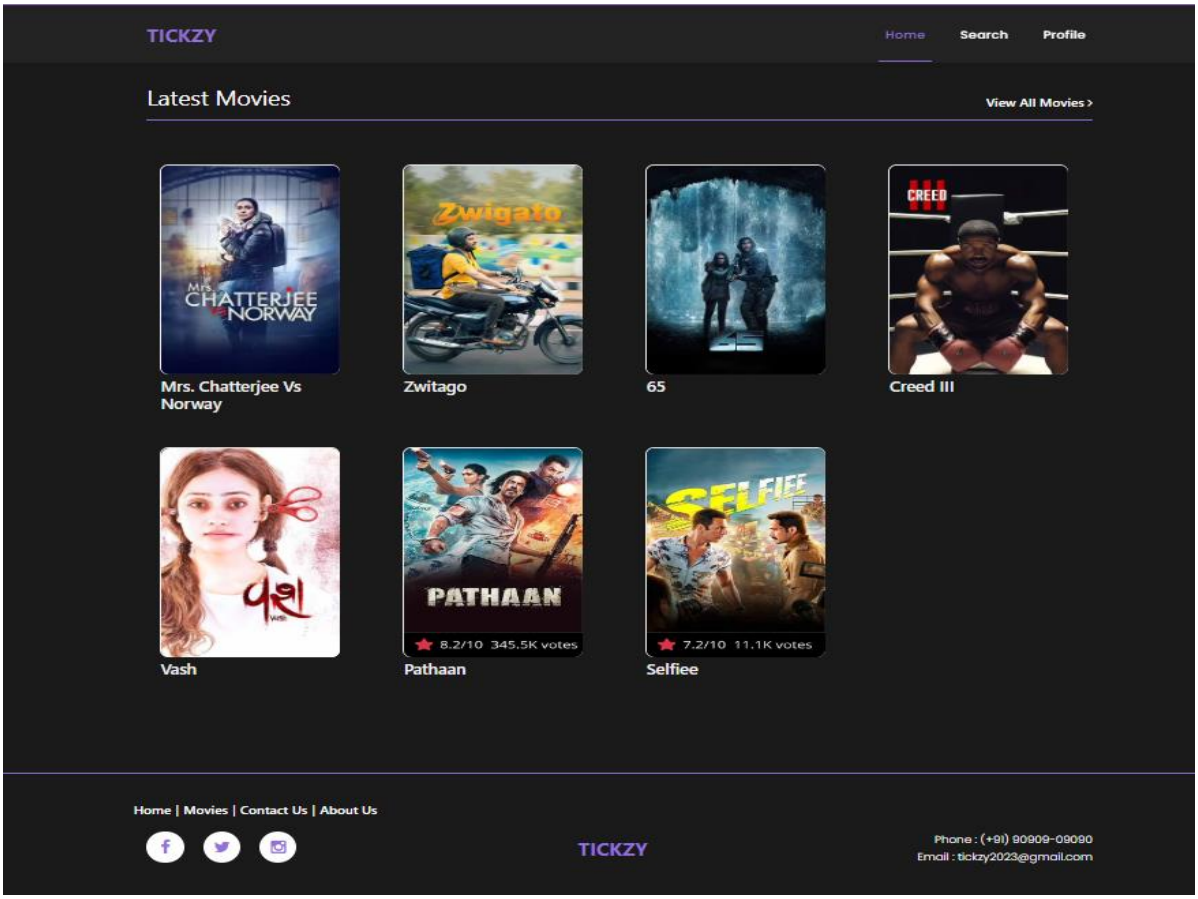
Registration :-



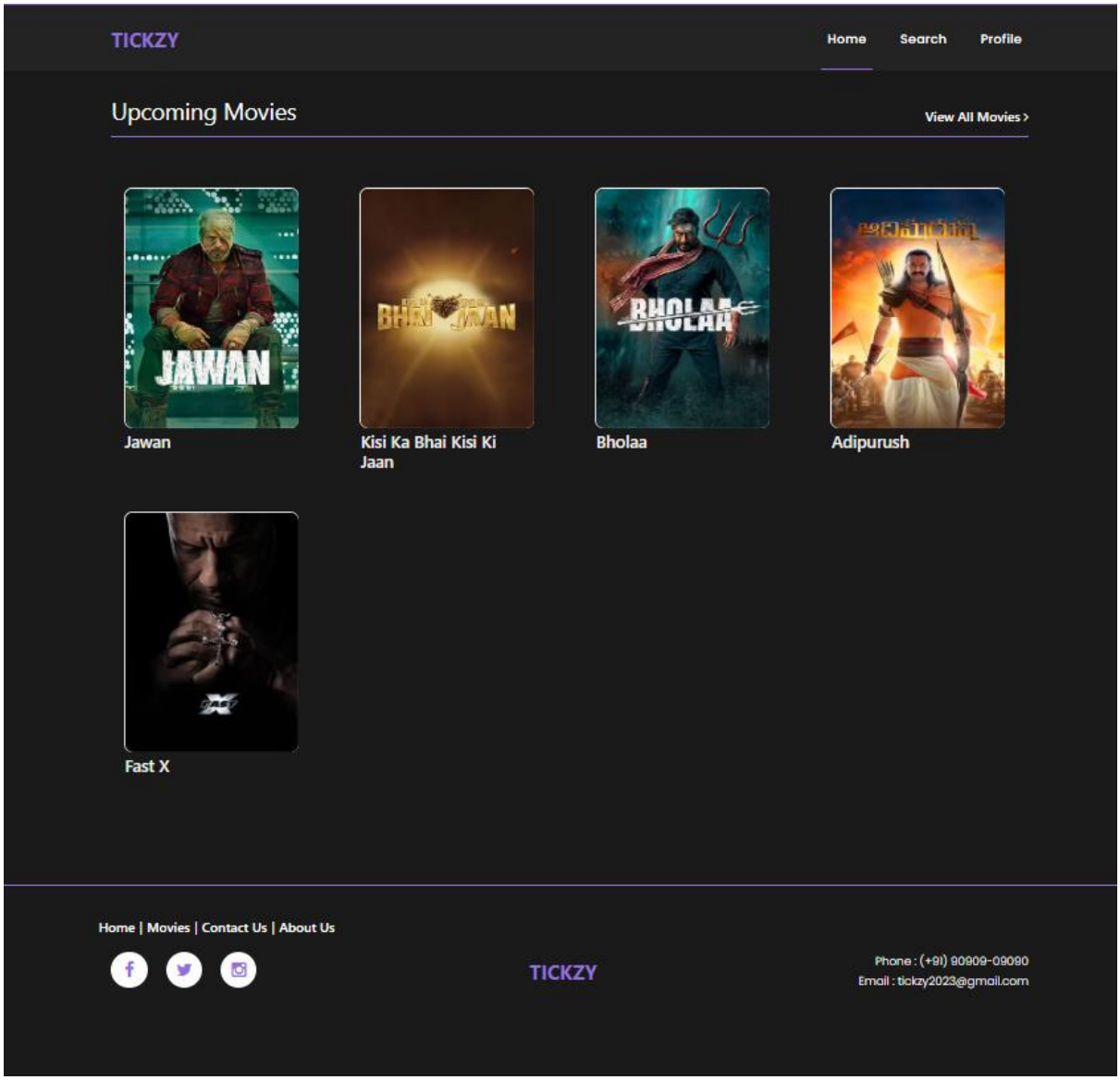
Home :-


TICKZY
Home
Search
Profile
Latest Movies
View All Movies >
Mrs. Chatterjee Vs Norway
Zwitago
65
Creed III
Upcoming Movies
View All Movies >
Jawan
Kisi Ka Bhai Kisi Ki Jaan
Bholaa
Adipurush
Home | Movies | Contact Us | About Us
TICKZY
Phone : (+91) 90909-09090
Email : tickzy2023@gmail.com

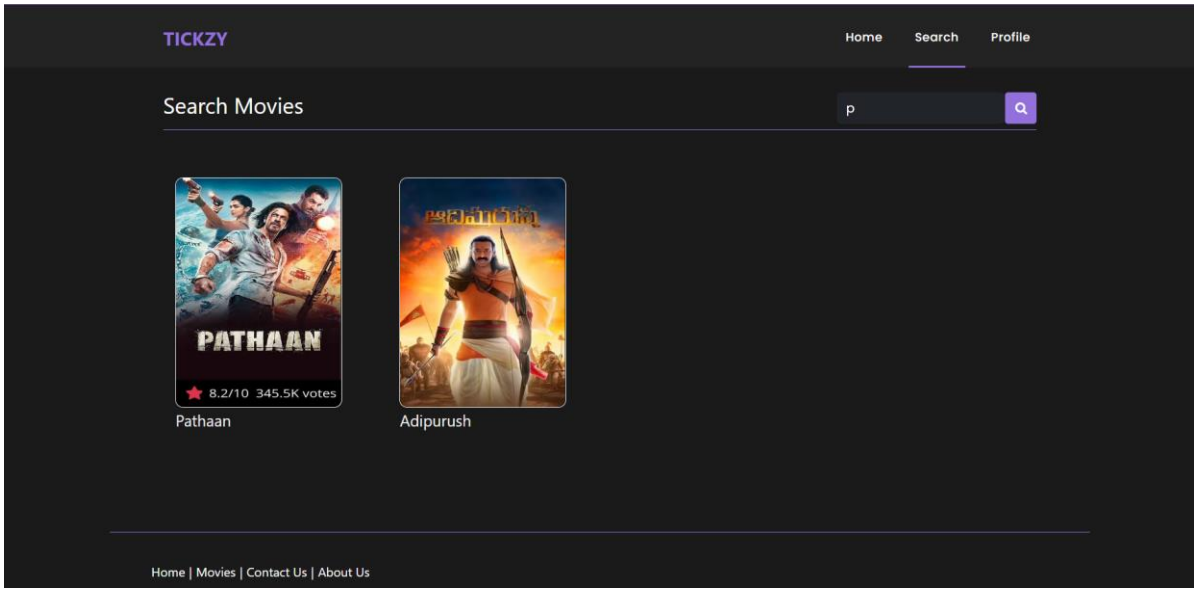
Latest Movies :-



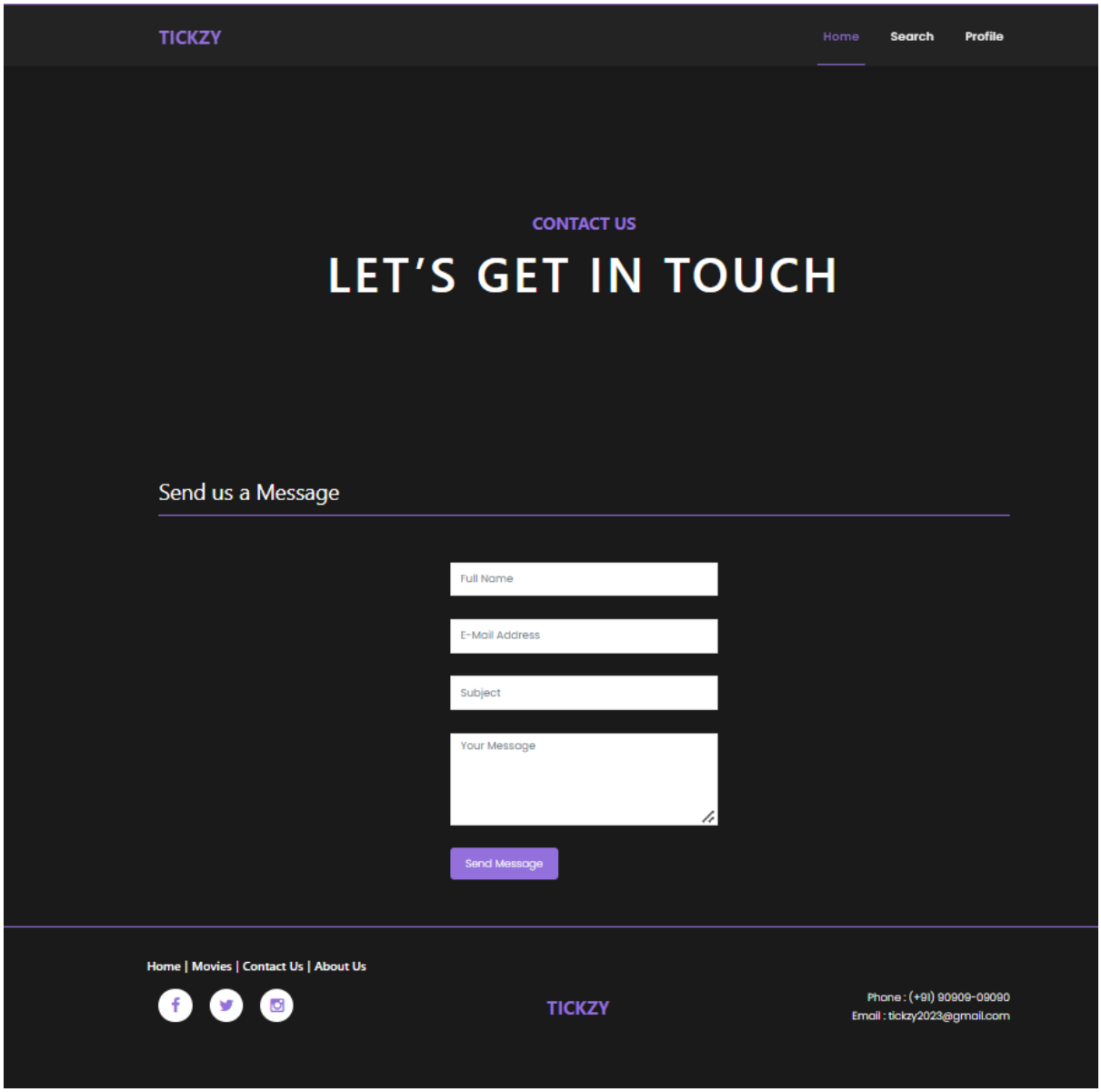
Upcoming Movies :-



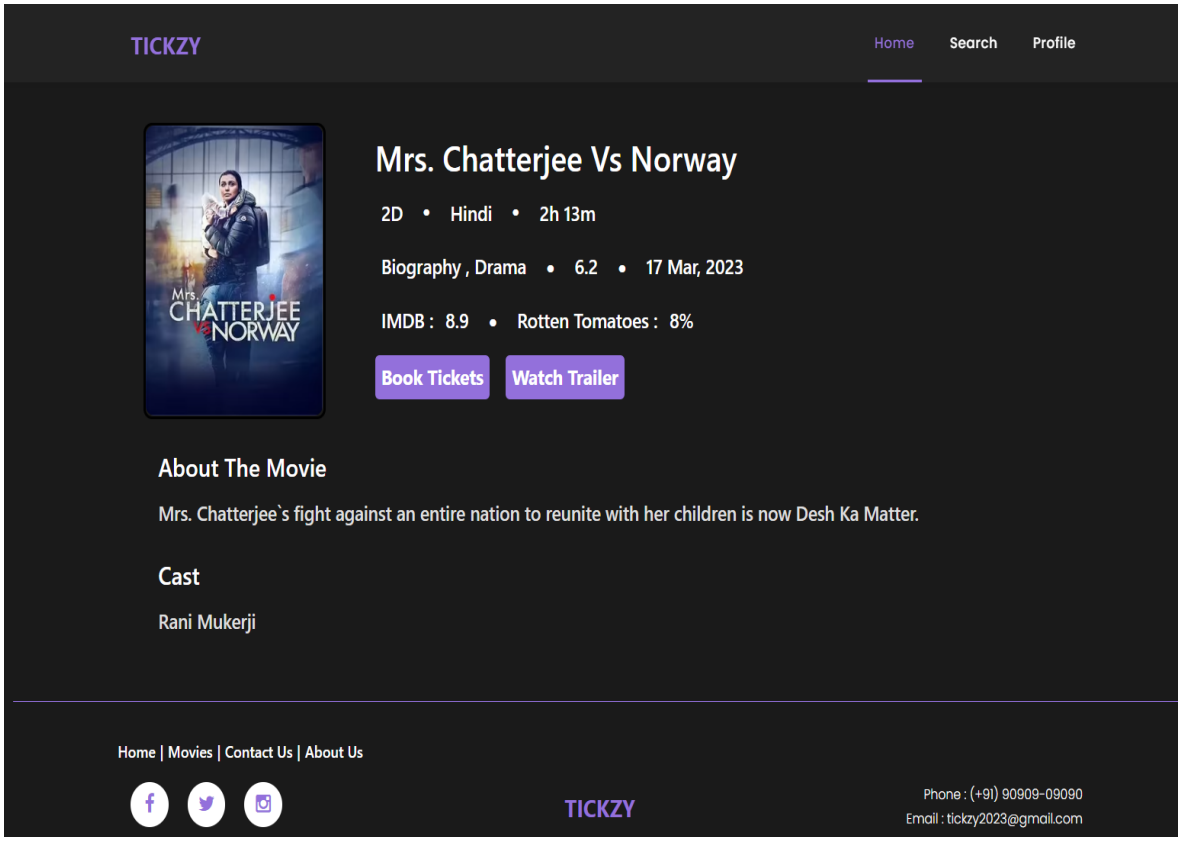
Search :-


TICKZY
Home
Search
Profile
Search Movies
p
PATHAAN
8.2/10 345.5K votes
Pathaan
Adipurush
Home | Movies | Contact Us | About Us

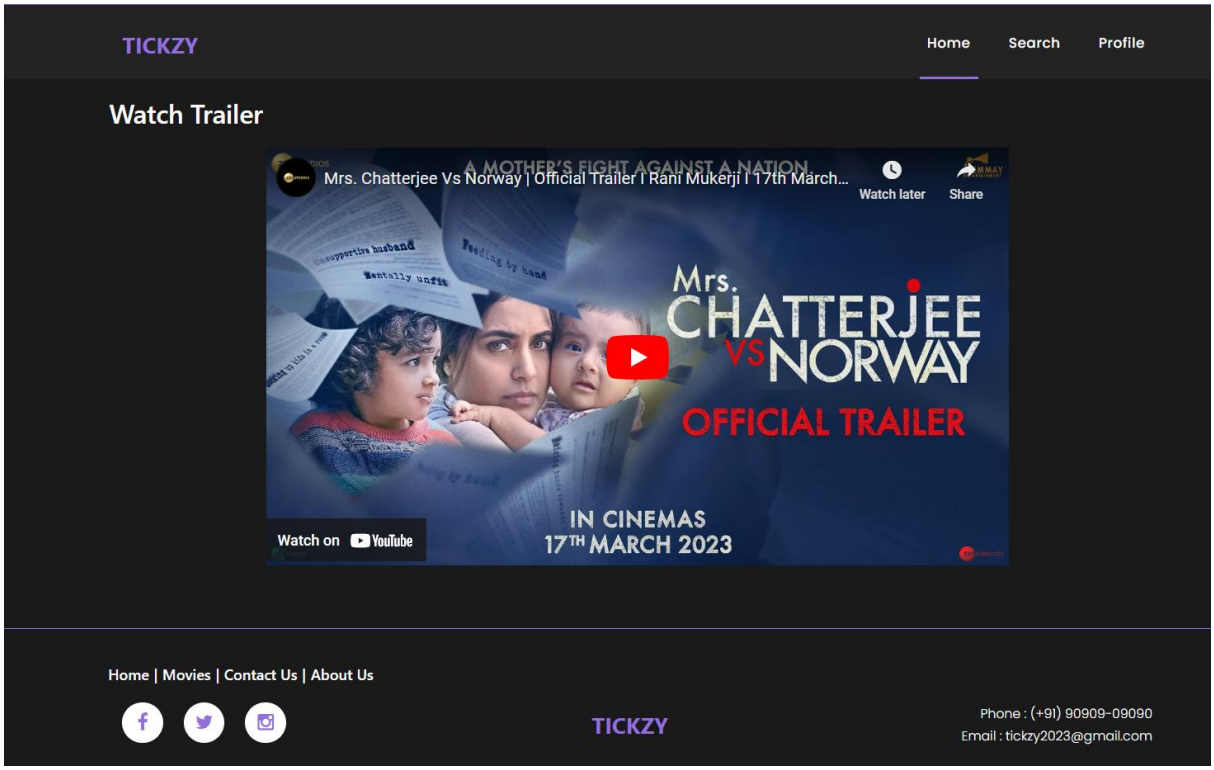
Contact Us :-


TICKZY
Home
Search
Profile
CONTACT US
LET'S GET IN TOUCH
Send us a Message
Full Name
E-Mail Address
Subject
Your Message
Send Message
Home | Movies | Contact Us | About Us
TICKZY
Phone : (+91) 90909-09090
Email : tickzy2023@gmail.com

Movie View :-


TICKZY
Home
Search
Profile
Mrs. Chatterjee Vs Norway
2D • Hindi • 2h 13m
Biography , Drama • 6.2 • 17 Mar, 2023
IMDB : 8.9 • Rotten Tomatoes : 8%
Book Tickets
Watch Trailer
About The Movie
Mrs. Chatterjee`s fight against an entire nation to reunite with her children is now Desh Ka Matter.
Cast
Rani Mukerji
Home | Movies | Contact Us | About Us
TICKZY
Phone : (+91) 90909-09090
Email : tickzy2023@gmail.com

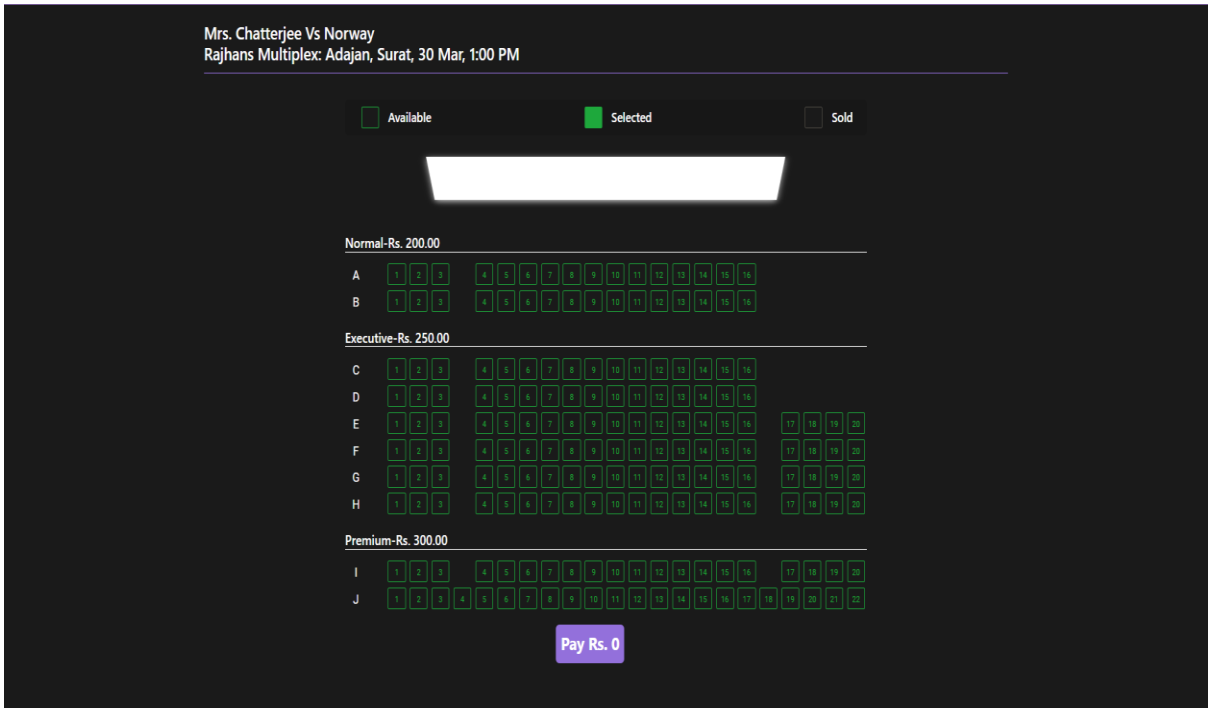
Watch Trailer :-



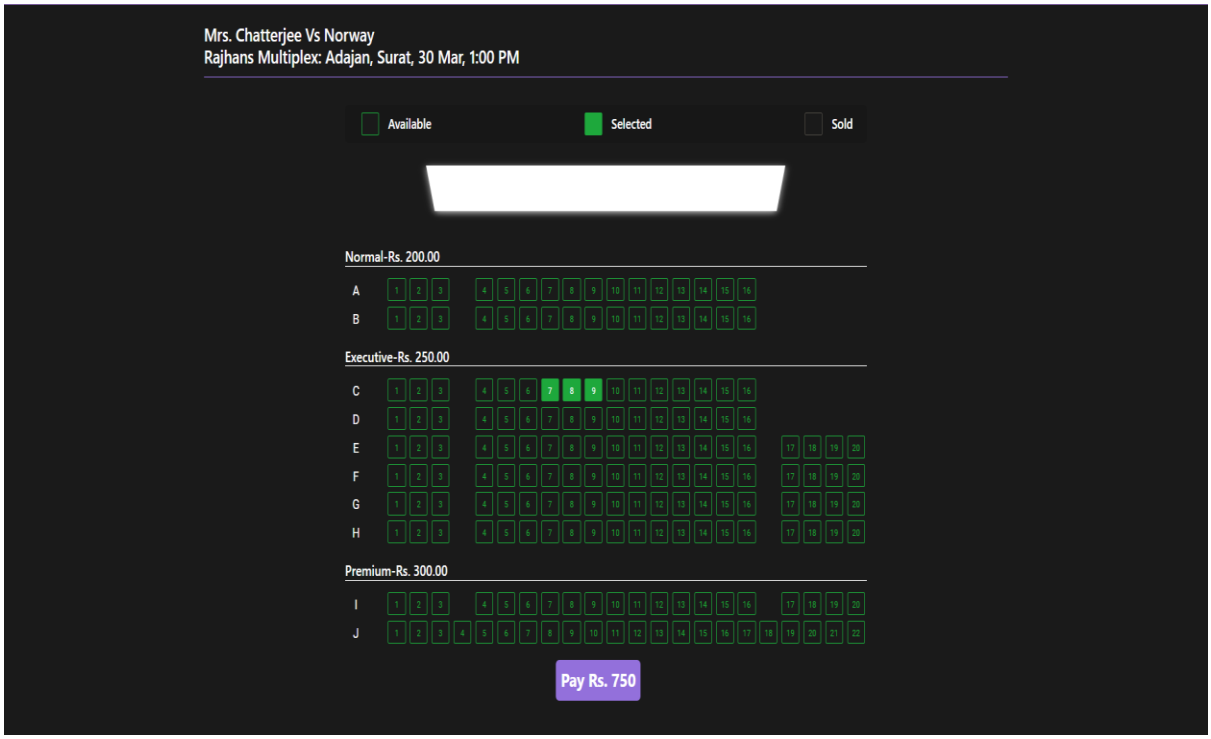
Select Language :-

Select Show By Date :-

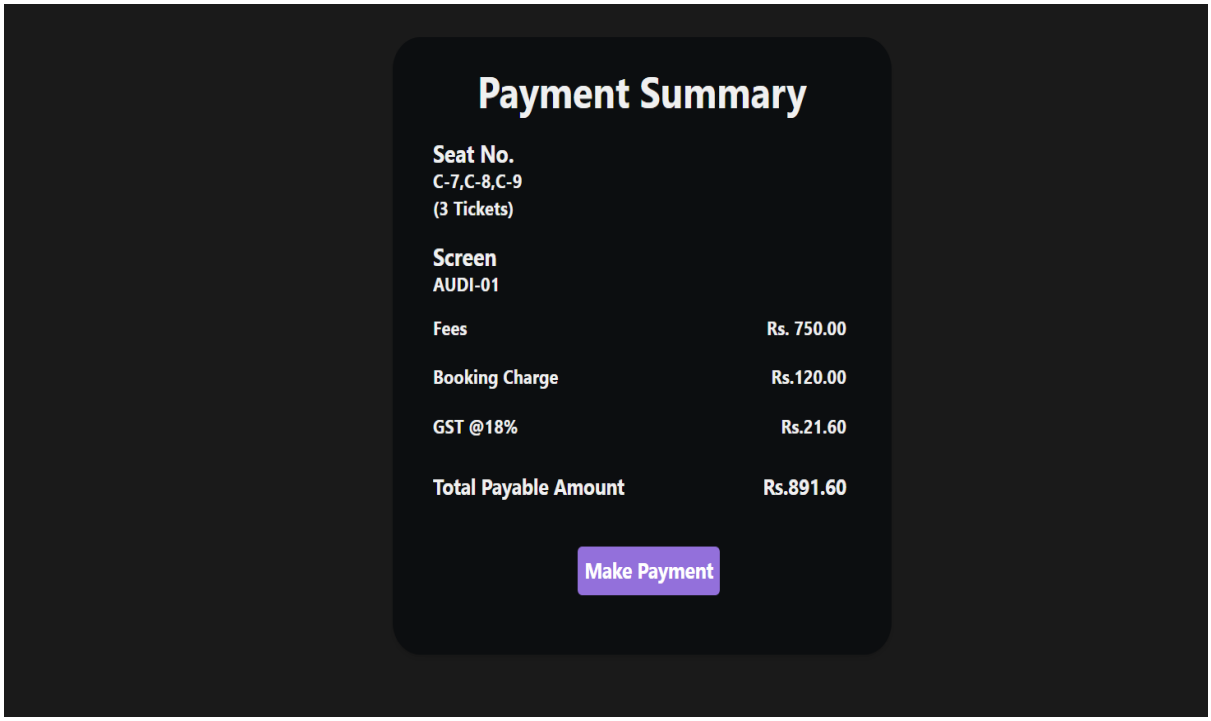
Show Seats Availability :-



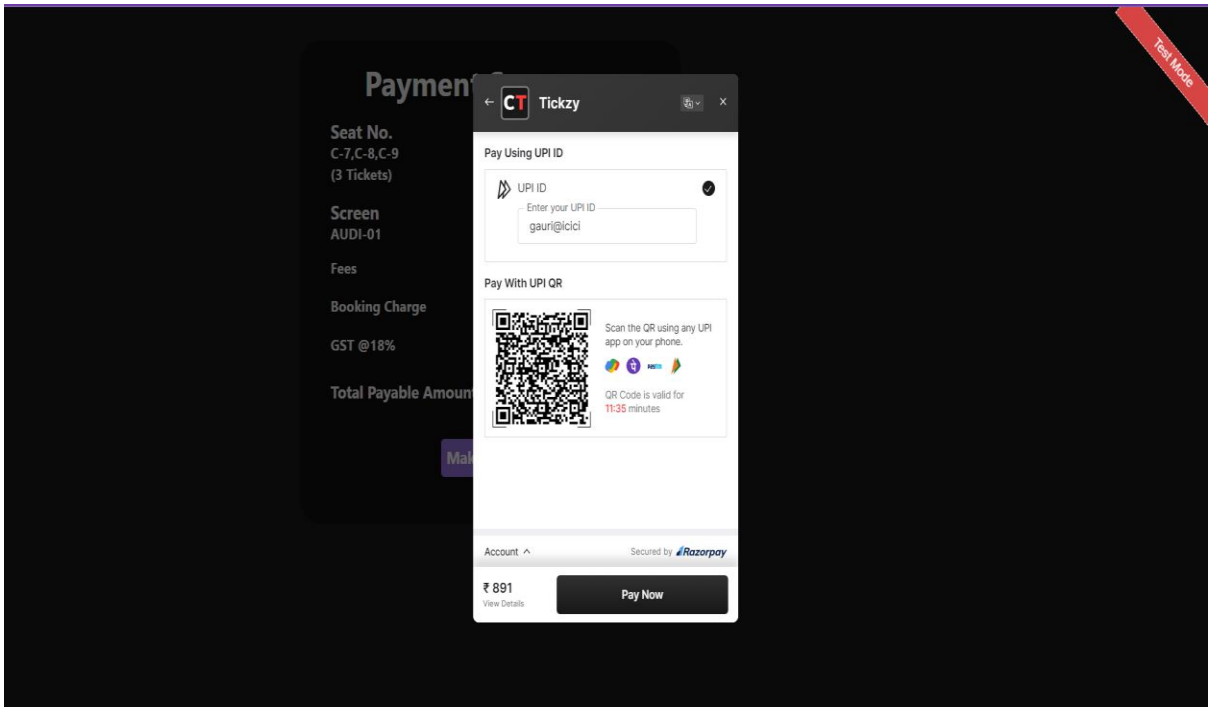
Select Seats :-



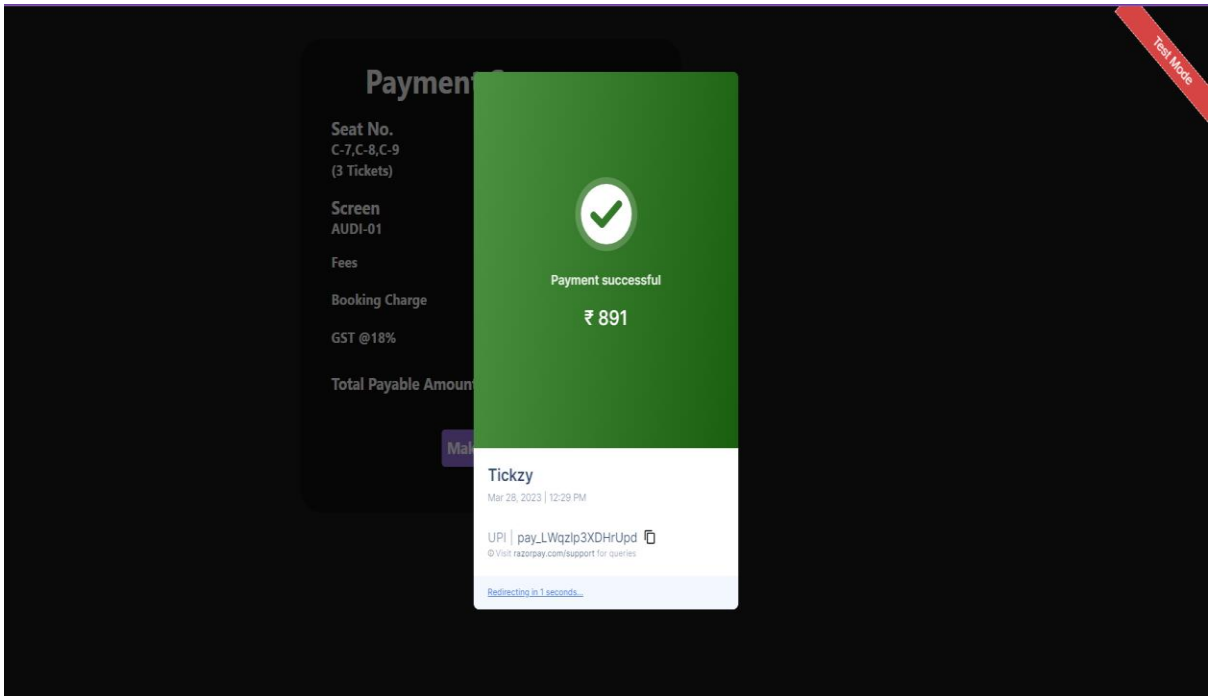
Make Payment :-

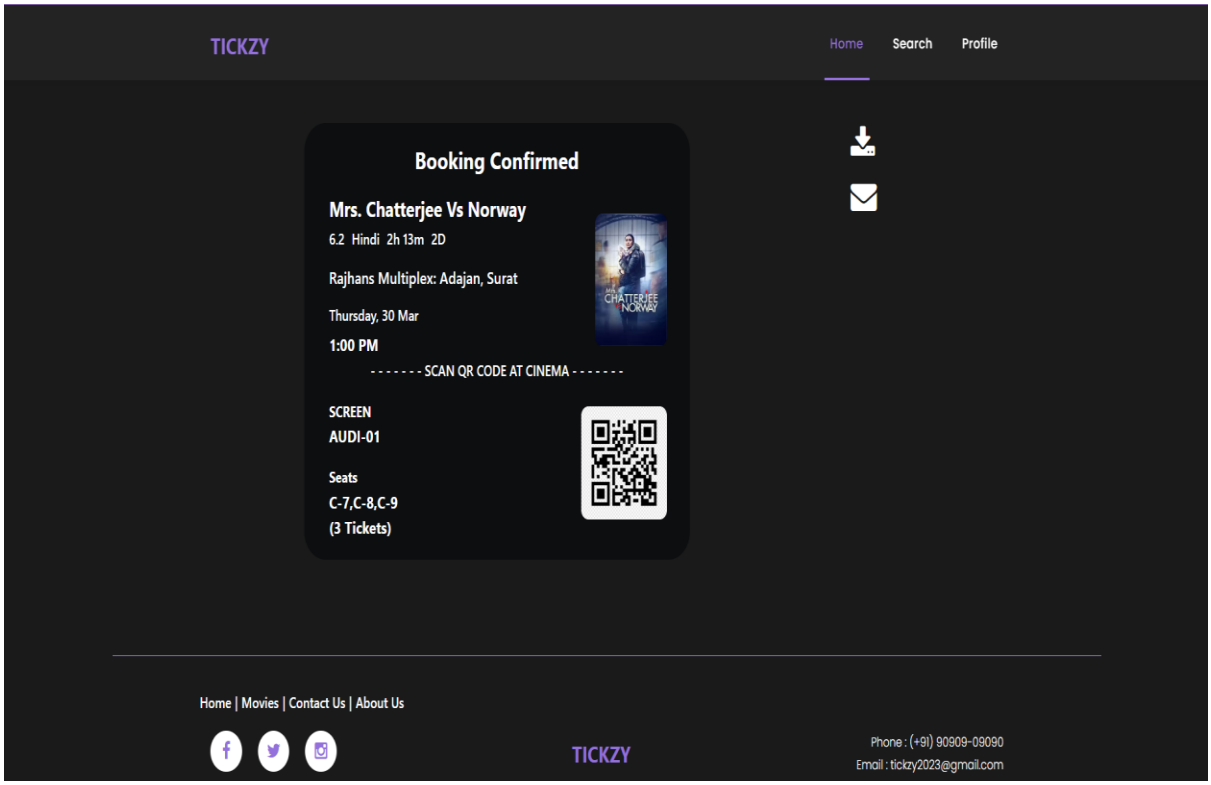


Razorpay Payment :-

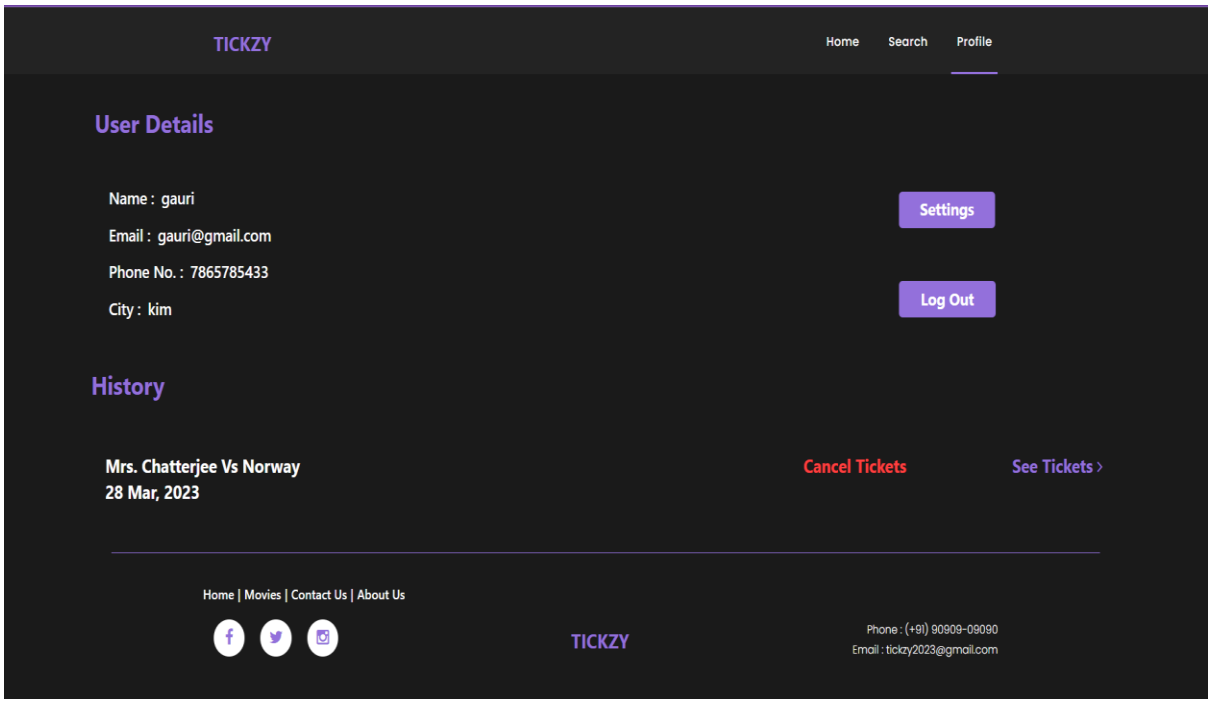


Payment & Booking Successful :-

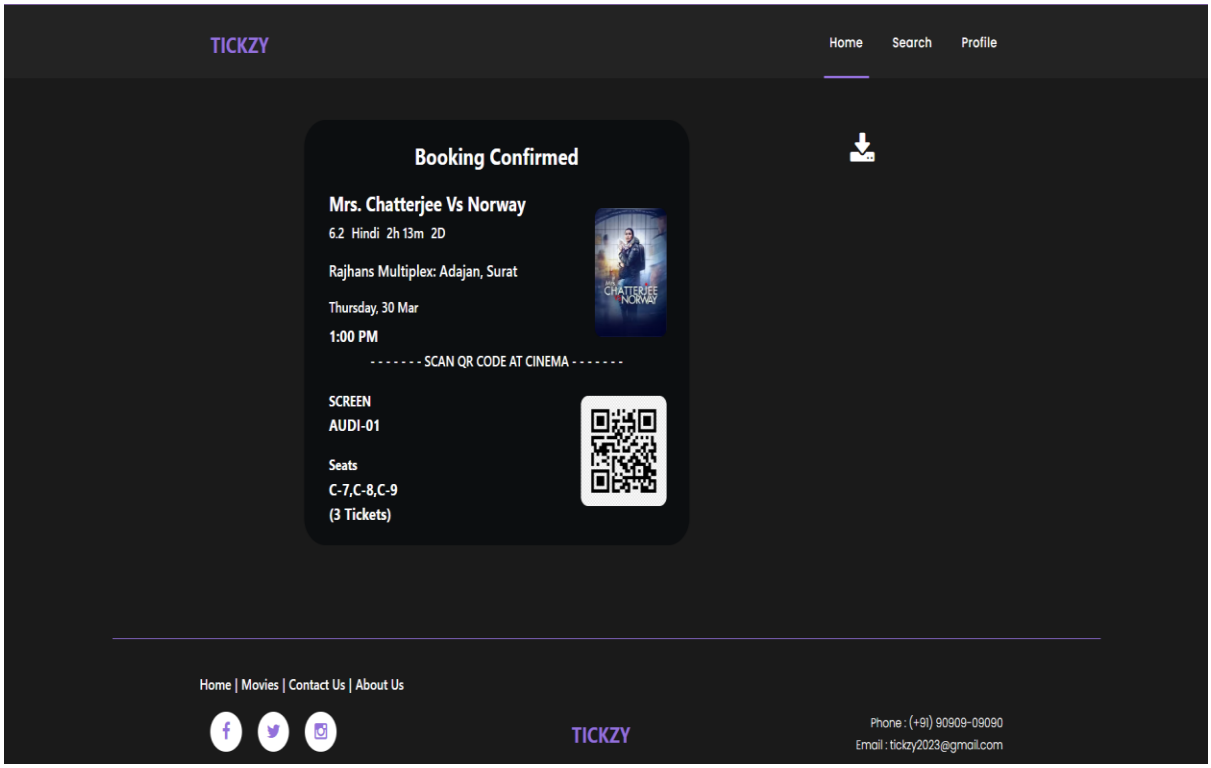




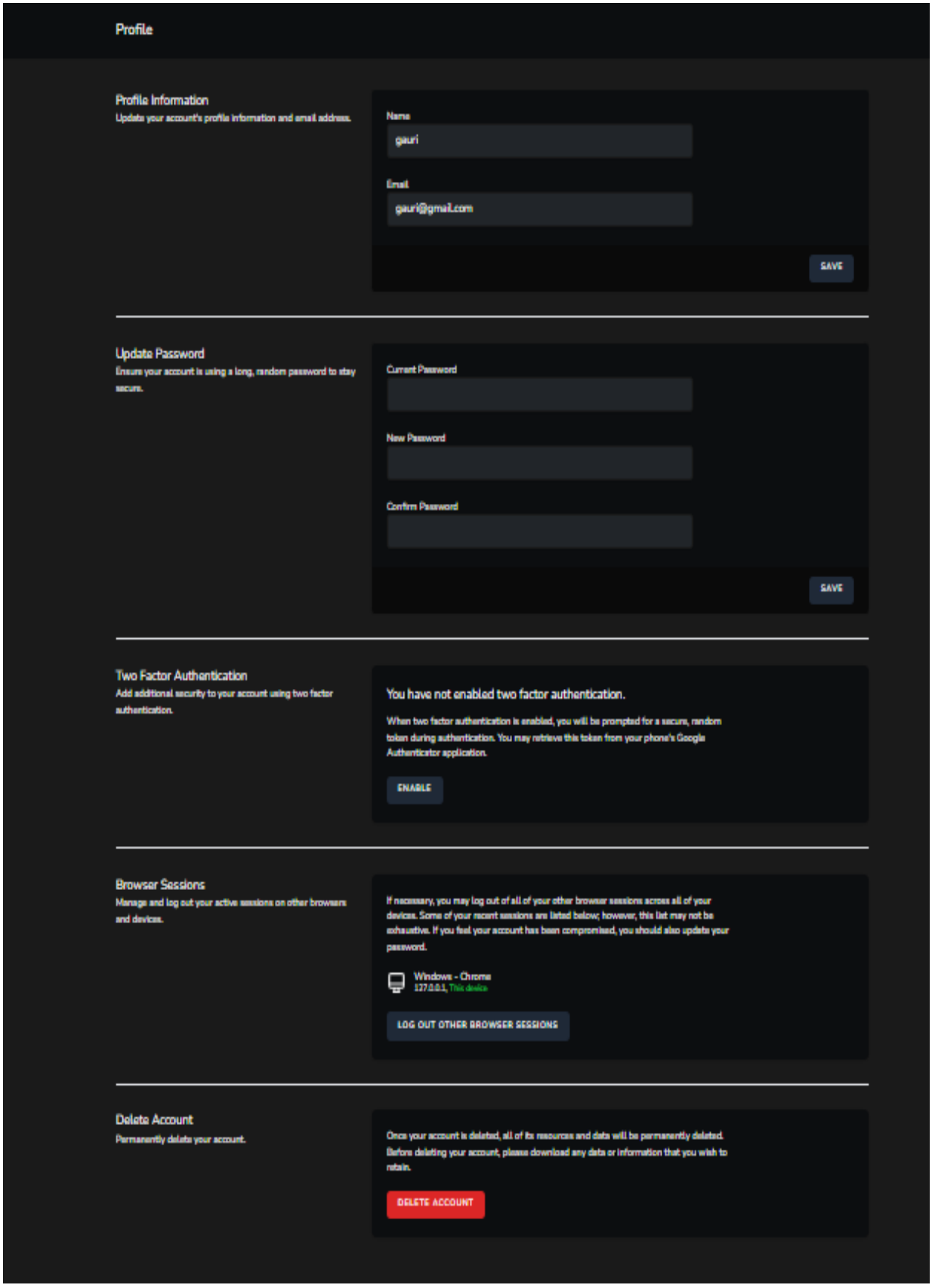
User Profile :-



Booking History :-



Settings :-


Profile
Profile Information
Update your account's profile information and email address.
Name
gauri
Email
gauri@gmail.com
SAVE
Update Password
Ensure your account is using a long, random password to stay secure.
Current Password
New Password
Confirm Password
SAVE
Two Factor Authentication
Add additional security to your account using two factor authentication.
You have not enabled two factor authentication.
When two factor authentication is enabled, you will be prompted for a secure, random token during authentication. You may retrieve this token from your phone's Google Authenticator application.
ENABLE
Browser Sessions
Manage and log out your active sessions on other browsers and devices.
If necessary, you may log out of all of your other browser sessions across all of your devices. Some of your recent sessions are listed below; however, this list may not be exhaustive. If you feel your account has been compromised, you should also update your password.
Windows - Chrome
127.0.0.1, This device
LOG OUT OTHER BROWSER SESSIONS
Delete Account
Permanently delete your account.
Once your account is deleted, all of its resources and data will be permanently deleted. Before deleting your account, please download any data or information that you wish to retain.
DELETE ACCOUNT

9. Testing

9.1 Software Testing

- Software testing is a critical element of software quality assurance and represents the ultimate review of specification design and coding. Testing is an exposure of a system to trial input to see whether it produces correct output.
- In our project, we had to test each unit to make sure it worked properly and there were no bugs.
- Testing finds errors, it does not correct errors. Software success is a quality of service, on time and within cost. Though testing can revel critical (costly) mistakes. Testing should therefore:
  - Validate Performance.
  - Detects Errors.
  - Identify Inconsistencies.

Test Objective

- There is strong evidence that effective requirement management leads to overall project cost savings.
- The system presented here is titled as —Movie Booking System. Various reports and data used for the same are the core of the system. The testing, therefore, becomes important in order to maintain the cost as well as improve performance and consistency.
- The output of one table is the input for other table. In the system, the movies are inserted into movies table, multiplex are inserted into multiplex table, screens are inserted into screens table and all this are transported to movie shows table.
- The testing procedure for the system has been divided in to various parts ranging for single unit testing to entire system testing.

Test Planning

- Test planning was actually to test all the individual modules and then to make the system work flawless and shouldn't create any minor bugs and errors.

Generating Test Cases

- A test case is a unit of testing activity. Test cases have three parts:
- The aspect of the system being tested.
- Input and System State data provided to the system under stated conditions.
- Expected Behaviour the output or action the system should take according to these requirements.

Test Case Selection

- The presented system - Movie Booking System is tested using white-box testing which is based on the internal structure of the system, may also called as testing to code, path-oriented testing, or logical-driven testing. A common goal of white-box testing is to have a test case to exercise every path through a program. This may become exhaustive.

White Box Testing Case Selection

- Because exhaustive white-box testing is infeasible, test or code coverage metrics are used to select test cases, which measure the fraction of code exercised by test cases. Test cases are selected to achieve target test coverage levels.
- Test Coverage Metrics
- Statement Coverage: The fraction of statements executed at least once is running a collection of test cases.
- Branch Coverage: The fraction of total branch directions that have been taken at least once in running a collection of test cases.

- Path Coverage: The fraction of paths taken at least once in running a collection of test cases, where a path is defined in some way to limit the totals of feasible collection.

9.2 Unit Testing

- The presented system is tested first using unit testing. Unit testing is test of code written by a single programmer. A unit is a portion of a system implemented by a single programmer
- Unit testing is exercising a unit in isolation from the rest of the system. The system, then, is tested using Integrating Testing.

9.3 System Testing

- Top-Down: Combine, test and debug top-levelled routines that become the integration test that harms for lower-level units.
- Bottom-Up: Combine, test low-level routines into progressively larger modules and subsystems.
- Sandwich: Mainly top-down with bottom-up integration and testing applied to certain widely used components.

Test Completion

- White-box test coverage targets are met.
- Rate of error discovery reduced the target value.
- Measured reliability of the system achieves its target value.

9.4 Test Cases

Test cases for Sign up module

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass / Fail
TSU-01U	Name	Null	Invalid	Please fill out this field	As Expected	Pass
		Gauri Mishra	Valid	-	As Expected	Pass
TSU-02U	Email	Null	Invalid	Please fill out this field	As Expected	Pass
		gauri@	Invalid	Please enter a following '@'. 'gauri@' is incomplete	As Expected	Pass
		gauri@gmail.com	Valid	-	As Expected	Pass
TSU-03U	Phone	Null	Invalid	Please fill out this field	As Expected	Pass
		8160993550	Valid	-	As Expected	Pass
TSU-04U	City	Null	Invalid	Please fill out this field	As Expected	Pass
		Kim	Valid	City is Valid	As Expected	Pass
TSU-05U	Password	Null	Invalid	Please fill out this field	As Expected	Pass
		12345678	Valid	-	As Expected	Pass
TSU-06U	Confirm Password	Null	Invalid	Please fill out this field	As Expected	Pass
		12345678	Valid	-	As Expected	Pass

Test cases for Login module

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass / Fail
TLI-01U	Email	Null	Invalid	Please fill out this field	As Expected	Pass
		gauri@	Invalid	Please enter a following '@'. 'gauri@' is incomplete	As Expected	Pass
		gauri@gmail.com	Valid	-	As Expected	Pass
TLI-02U	Password	Null	Invalid	Please fill out this field	As Expected	Pass
		12345678	Valid	-	As Expected	Pass

Test cases for Settings module

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass/ Fail
TSE-01U	Name	Null	Invalid	Please fill out this field	As Expected	Pass
		Gauri Mishra	Valid	-	As Expected	Pass
TSE-02U	Email	Null	Invalid	Please fill out this field	As Expected	Pass
		gauri@gmail.Com	Valid	-	As Expected	Pass

Test cases for Upload Current movies

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass/ Fail
TUC-01C	Movie Name	Null	Invalid	Please fill out this field	As Expected	Pass
		Selfiee	Valid	-	As Expected	Pass
TUC-02C	Description	Null	Invalid	Please fill out this field	As Expected	Pass
		A Bollywood superstar's feud with an RTO officer gets played out in front of the entire country.	Valid	-	As Expected	Pass
TUC-03C	Release Date	Null	Invalid	Please fill out this field	As Expected	Pass
		24-02-2023	Valid	-	As Expected	Pass
TUC-04C	Genre	Null	Invalid	Please fill out this field	As Expected	Pass
		Drama,Action,Comedy	Valid	-	As Expected	Pass
TUC-05C	Type	Null	Invalid	Please fill out this field	As Expected	Pass
		2D	Valid	-	As Expected	Pass
TUC-06C	Length	Null	Invalid	Please fill out this field	As Expected	Pass
		2h 23m	Valid	-	As Expected	Pass

TUC-07C	Trailer Link	Null	Invalid	Please fill out this field	As Expected	Pass
		https://www.youtube.com/embed/lS1KScfdr70	Valid	-	As Expected	Pass
TUC-08C	slug	Null	Invalid	Please fill out this field	As Expected	Pass
		selfiee	Valid	-	As Expected	Pass
TUC-09C	Rating	Null	Invalid	Please fill out this field	As Expected	Pass
		UA	Valid	-	As Expected	Pass
TUC-10C	Cast	Null	Invalid	Please fill out this field	As Expected	Pass
		Akshay kumar , Emraan hashmi	Valid	-	As Expected	Pass
TUC-11C	Languages	Null	Invalid	Please fill out this field	As Expected	Pass
		Hindi	Valid	-	As Expected	Pass
TUC-12C	IMDB Rating	Null	Invalid	Please fill out this field	As Expected	Pass
		8.5	Valid	-	As Expected	Pass
TUC-13U	Rotten Tomatoes	Null	Invalid	Please fill out this field	As Expected	Pass
		81	Valid	-	As Expected	Pass

Test cases for Upload Upcoming movies

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass/ Fail
TUU-01U	Movie Name	Null	Invalid	Please fill out this field	As Expected	Pass
		Fast X	Valid	-	As Expected	Pass
TUU-02U	Description	Null	Invalid	Please fill out this field	As Expected	Pass
		Dom Toretto and his family must confront a terrifying new enemy who`s fueled by revenge.	Valid	-	As Expected	Pass
TUU-03U	Release Date	Null	Invalid	Please fill out this field	As Expected	Pass
		19-05-2023	Valid	-	As Expected	Pass
TUU-04U	Genre	Null	Invalid	Please fill out this field	As Expected	Pass
		Action , Adventure , Crime , Thriller	Valid	-	As Expected	Pass
TUU-05U	Type	Null	Invalid	Please fill out this field	As Expected	Pass
		2D,IMAX2D	Valid	-	As Expected	Pass
TUU-06U	Trailer Link	Null	Invalid	Please fill out this field	As Expected	Pass
		https://www.youtube.com/embed/XdF7PkwJT1A	Valid	-	As Expected	Pass
TUU-07U	Slug	Null	Invalid	Please fill out this field	As Expected	Pass
		fast x	Valid	-	As Expected	Pass

TUU-08U	Cast	Null	Invalid	Please fill out this field	As Expected	Pass
		Vin diesel, Jason momoa, John cena	Valid	-	As Expected	Pass
TUU-09U	Languages	Null	Invalid	Please fill out this field	As Expected	Pass
		English, Hindi, Tamil, Telugu	Valid	-	As Expected	Pass

Test cases for Upload Multiplex

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass/ Fail
TUM-01M	Multiplex Name	Null	Invalid	Please fill out this field	As Expected	Pass
		INOX: VR Mall, Surat	Valid	-	As Expected	Pass
TUM-02M	Address	Null	Invalid	Please fill out this field	As Expected	Pass
		3rd Floor, VR Mall, Dumas Road, Magdalla, Near Sunglass Hut, Surat, Gujarat 395007, India	Valid	-	As Expected	Pass
TUM-03M	Contact	Null	Invalid	Please fill out this field	As Expected	Pass
		8586848987	Valid	-	As Expected	Pass
TUM-04M	Email	Null	Invalid	Please fill out this field	As Expected	Pass
		inox@cinemas.com	Valid	-	As Expected	Pass
TUM-05M	Total Screen	Null	Invalid	Please fill out this field	As Expected	Pass

		3	Valid	-	As Expected	Pass

Test cases for Upload Screen

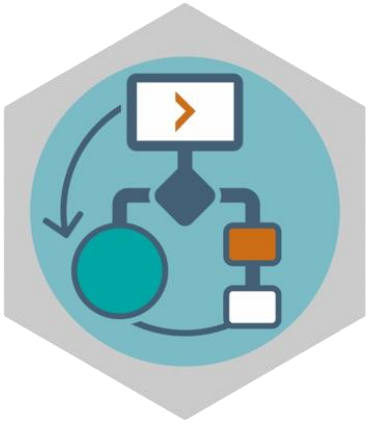
Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass/ Fail
TUS-01S	Screen No	Null	Invalid	Please fill out this field	As Expected	Pass
		1	Valid	-	As Expected	Pass
TUS-02S	Screen Name	Null	Invalid	Please fill out this field	As Expected	Pass
		AUDI-01	Valid	-	As Expected	Pass
TUS-03S	Multiplex Name	Null	Invalid	Please fill out this field	As Expected	Pass
		INOX: VR Mall, Surat	Valid	-	As Expected	Pass

Test cases for Upload Movie Shows

Test Case ID	Field Name	Test Data	Valid/ Invalid	Expected Result	Actual Result	Pass/ Fail
TUS-01S	Movie Name	Null	Invalid	Please fill out this field	As Expected	Pass
		Pathaan	Valid	-	As Expected	Pass
TUS-02S	Multiplex Name	Null	Invalid	Please fill out this field	As Expected	Pass
		Time Cinema: Galaxy Circle, Pal	Valid	-	As Expected	Pass
TUS-03S	Screen Name	Null	Invalid	Please fill out this field	As Expected	Pass

		AUDI-02	Valid	-	As Expected	Pass
TUS-04S	Show Date	Null	Invalid	Please fill out this field	As Expected	Pass
		27-03-2023	Valid	-	As Expected	Pass
TUS-05S	Show Language	Null	Invalid	Please fill out this field	As Expected	Pass
		Hindi	Valid	-	As Expected	Pass
TUS-06S	Normal Price	Null	Invalid	Please fill out this field	As Expected	Pass
		250	Valid	-	As Expected	Pass
TUS-07S	Executive Price	Null	Invalid	Please fill out this field	As Expected	Pass
		280	Valid	-	As Expected	Pass
TUS-08S	Premium Price	Null	Invalid	Please fill out this field	As Expected	Pass
		300	Valid	-	As Expected	Pass
TUS-09S	Total Seats	Null	Invalid	Please fill out this field	As Expected	Pass
		100	Valid	-	As Expected	Pass

10. Limitation and System Enhancement



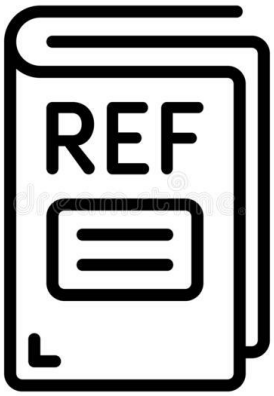
10.1 Limitations

- User cannot choose city for current use.
- User cannot customize theme on their profile page
- User cannot use coupons for current use

10.2 System Enhancement

- We will Provide all cities so that user can choose city.
- We will provide coupons service so that user can get extra discount.
- Add profile customize themes for user can view other user their profile attractive.

11. References



11.1 References

PHP Documentation

Laravel Documentation

MySQL Documentation

JavaScript Documentation

HTML5 Documentation

CSS3 Documentation

jQuery Documentation

AJAX Documentation

Laravel 8

StackOverflow

Draw.io