DATABASE MANAGEMENT SYSTEMS

PROJECT REPORT MOVIE TICKET RESERVATION DATABASE SYSTEM

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Database Management Systems (CSE2004)

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CERTIFICATE

Certified that this project report "MOVIE DATABASE SYSTEM" is the bonafide work of "CHINTHALA HARDHEEK, KALAGARA HARI AND MANUSANI SAI PRANEETH"

who carried out the project work under our supervision.

SIGNATURE

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ABSTRACT:

This project is aimed at developing an online ticket reservation system for a Cinema Hall. 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.

This online ticket reservation system provides a website for a cinema hall where any user of internet can access it. User is required to login to the system and needs a credit card for booking the tickets.

Watching movies with family and friends in theaters is one of the best medium of entertainment after having a hectic schedule. But all this excitement vanishes after standing in hours in long queues to get tickets booked. The website provides complete information regarding currently running movies on all the screens

Our online tickets reservation system is one of the best opportunities for those who cannot afford enough time to get their tickets reserved standing in long queues. People can book tickets online at any time of day or night. Our reservation system also provides option to cancel the tickets which are reserved previously.

PURPOSE:

The main purpose of online ticket booking system is to provide another way for the customer to buy cinema ticket.

The Ticket Reservation System is an Internet based

application that can be accessed throughout the Net and can be accessed by any one who has a net connection. It is an automatic system, where we will automate the reservation of tickets and enquiries about availability of tickets.

After inserting the data to database, staff need not to worry about the orders received through the system and hence reduces the manual labor. One of the best features of the system is to refund the amount on cancellation of tickets by customer.

The goals of the system are:

- > To provide a anytime anyplace service for the customer
- ◆ To minimize the number of staff at the ticket box
- ◆ To promote the film on the internet
- ◆ To increase the profit

DOMAIN OF THIS RESERVATION SYSTEM:

Online Ticket Reservation System for Cinema Hall is a web based application. The technology used is Java Server Pages and these are also can be executed in python Server. The database used is SQL.

SCOPE:

The scope of this project is to provide an easy option for the customer who is willing to book tickets online for a movie. It saves his time and labor. On the other hand half of the tickets of the cinema hall are been provided for booking online. Such that labor of staff is reduced. This system can be accessed anywhere who has net connection at any time of day or night, thus providing customer's comfort. And also plays a major role in promoting the multiplex and the movies.

Keeping in view the customer's benefit, the system also has an additional functionality where the refund is available on cancellation of tickets. This is one of the functionalities where the previous systems were lacking with.

EXISTING SYSTEM:

The existing system has two ways of booking tickets for a movie: one is to book tickets at the ticket counter of respective cinema hall and the other one is through phone called as "Telebooking". Former is one of the hectic processes where one should stand in long queues for hours. Telebooking was introduced keeping in view the user's comfort while booking tickets.

PROPOSED SYSTEM:

The proposed system is a web based application where one can buy tickets with just one click go. An internet user can buy tickets at any time of day or night. He will be guided with all the necessary steps to book tickets and collect tickets at the ticket counter in the website.

Also in the proposed system, customers can cancel seats at a suitable time (2 days before the show to 1hour before the show). If the customer wishes to cancel his tickets he will be given a confirmation details regarding his cancellations. As the customer buys tickets online through his credit card, on cancellation of tickets the refunded amount (30% of the amount will be charged for service charges) will be added back to his credit card account. To enhance the refund function, all the customers have to register and become a member before buying tickets so that he faces no problem while accessing the website

REQUIRED HARDWARE:

RAM: 8 GB

Hard Disk: 100 GB

Processor: Intel CORE i5 2.7 GHz

REQUIRED SOFTWARE:

Operating System: Microsoft WINDOWS 10

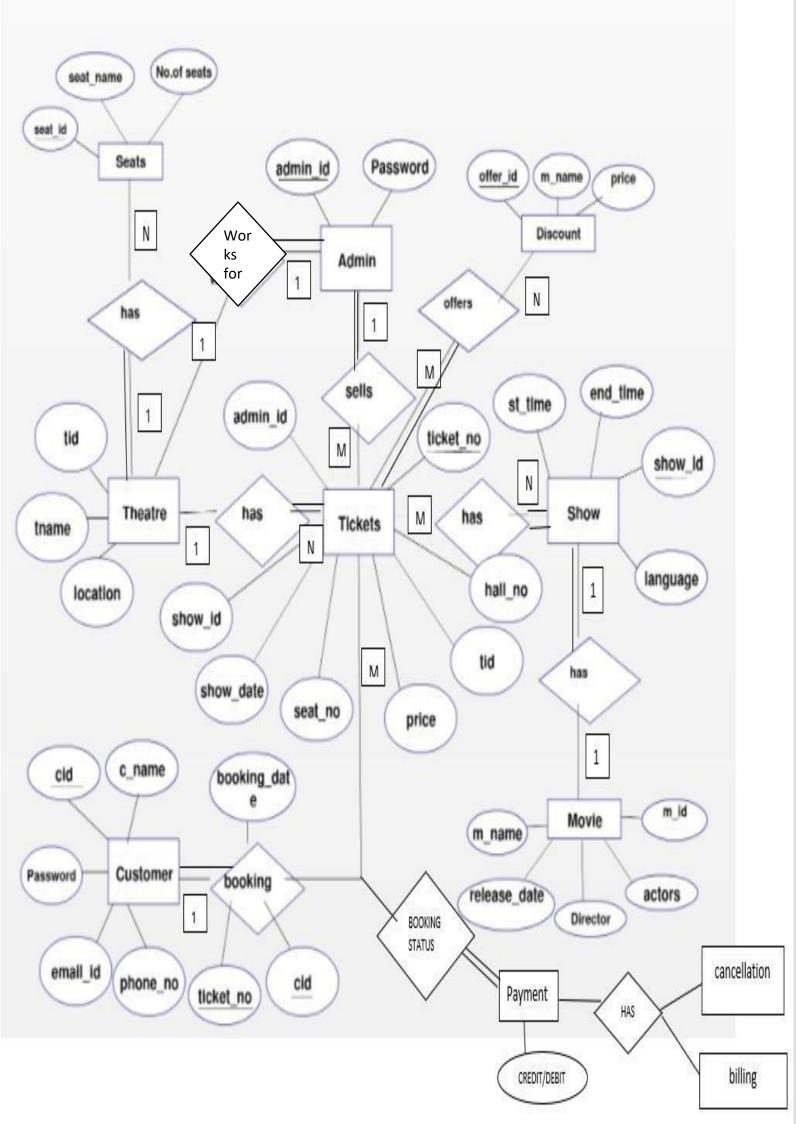
Database: PHPMYADMIN.

Tools: Xampp control panel, Notepad++

Language Requirement: HTML, PHP, CSS

Web server: LOCAL HOST

ER DIAGRAM



RELATIONAL SCHEMA

Relational schema: Admin password SSM admin-9d TPCKETS show-id seat-no price hall-no -t9cket_no TPC_SSN Tic_theatre Tic_custo tid show_date Theatre Theatre_ssn t9d location trane seats No. of seats seat_9d Seat_tid seatrane Discount Price w-rans afferid show end-time show has language st_49me show id m-name movee. disector release date actors m_name m_9d customes. cid crame password emaîl-îd payment payment_id Credit/debit cood. affers cancellation Essn_ticket Essnafel can-date can-id has (tickets-) show) P611820 b911_9d showno tho Total_price

11

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NORMALISATION OF DATABASE

Normalisation of ER-Diagram:

Table Login:

Attributes:

User_9d, username, password, user type (A)

Functional pependency:

1) User id -> username, password, usertype

2) Username -> user_id, password, userty

.: Let, The F-D shows as:

A -> B.C.D

B -> A,CD

Closure:

A* == ABCD

B* == ABCD

(AB* = = ABCD) x

condidate keys = {A/B}

prame Attributes = {AB3

Non-prime Attributes = { C, D}

quere are no multivalued Attributes and there is no postial dependency wire the table is in INF.

checking whether table is in 2 NF: 2NF: 45 % was already in INF, FOR ONF there should be no postfal dependency so, in LHS there is no proper subset of CK Hence 9t 95 in 2NF.

3NF:

RUR:

LHS 98 CK. 08 8K

RHS is a prome attribute.

FOR E.D.

A-> BCD

B -> ACP

LHS PS CK for both F.D

tence it is in 3NF.

RCNE:

LHS must be SK or CK, Hence it also soursfies.

Table_Bookings:

Attributes:

Functional dependency!

- 1) book_id > ticket_id, theatre_id,

 Usel_id, show_id, screening

 movie_id, no. of seats,

 amount, ticket_date,

 date.
- 2) ticket_id > book_id, theatre_id,

 User_id, show_id,

 screen_id, movie_id,

 no-of-seats, amount,

 ticket_date, date
- 3) Show_9d -> theatre_9d, screen_9d,
- 4) screen_id -> theatre_id.

het's F.D be like: A > BCD, EFGH, JJK BOA, CDE, FG, H, I, J.K ES GF,GT JF -> C. "CK = {A,B} PARME Attributes = {A/B} Non-prême Attributes = {c,D,E,F,G, H, I, I, K3.

There is no vouter valued atterabutes Hence 9t is 9n INF.

There is no proper subset of 2NF: candidate key and it violates partial dependency. Hence 9+ 25 80 2 NF.

BNF:

For F-D: 1) LHS has C.K hence 2) LHS PS having C.K hence it is in BNF.

F.D for 3) LHS has no C.K (08) RHS there are no prime attribut 4) LHS has no C.K (or) RHS there ale no prime attributes so it is not an 3NA.11

Bividing the 3NF tables!

Table (A,B,C,D,E,F,G,H,I,J,X)

Table 1: (A,B,D,E,H,I,J,K) Table 2: Take:

Table 1: (A,B,D,E,H,I,J,K) (E,F,G) (C,F,G)

FD: [A -> B,D,E,H,I,J,K] F-D: [E->F,G)

FD: [A-> B,D,E,H,I,J,K] [BAA, D, E, H, F, J, K] C·K:[E] C岭

C.K: [A, B]

Now the tables are an 3NF with THS of C.K.

BCNF:

The tables of rel(1), rel(2), rel(3) one an BONE wath LHS of C.K. SO Pt satisfies all the Normal forms.

```
pable movie:
Attributes:
movie-9d, movie-name, cast, release date
Functional dependency:
movie_9d -> movie_name, cost,
              release_date
2) movie-name -> movie-9d, cost,
                 refuse date.
Let's write as:
  A -> B,C,D
  B -> A, C,D
 candidate keys!
  EA, B3
 Prime attributes = SA, B3
 non-prime Attributes = & C, D3.
INF;
 There are no muttivalued attributes
   Hence it is in INF.
INF:
 There is no postial dependency
 where LHS has no proper subset of
 Candidate Key hence it is in ent.
```

For both F.D's the Litt's has candidate key hence it is in

3NF.

BCNF:

The LHS of both F.D's are C.Kon Sik . so, the table is in BONK. The movie table is satisfies all forms.

table-registration:

Attributes!

user_id, name, email, phone, age, gender. (F)

Functional dependency:

- 1) user_id -> name, email, Phone, age, gender.
- 2) email -> name, user-9d, phone, age, gender.
- 3) Phone usel_id, name, email, age, gender.

set is do = unis us. DA B,C,D,E,F A) C -> A,B, D,E,F 3) D-> A/B/C/E/F. CANDIDATE Keys: & A, C, D3 pame Attributes: {A,C,D} Non-prime Attributes: & B, E, Fg.

There are no multivalued attributes. hence It the table is In INF.

There is no portial dependency where JWE: LHS has no proper subset of CK

Hence table is in 2NF.

3NF:

The CHS of F. D's have C.K hence 9t 95 90 3NF.

BONF:

The Litts of F.D's have C.K.com) Sik. Hence the table is in BCNF.

Table-Screens:

At to butes:

screen_id, theatre_id, screen_ Seats, charge.

Functional dependency:

- 1) Screen_id -> Theatre_Id, Screen_nome seats, charge.
- 2) screen_name -> screen_ld, Theatre's Seats, Charge.

Let's write as!

A -> B,C,D,E

C -> A , B, D, E:

G.K = & A, C3

prime Attributes = &A,C}

MON-brame Attal poster= SB, D, Eg.

There are no multivalued attributes Herce table 98 90 INF-

In both F.D's there are no partial dependency where LHS has no propos guisset of C.K. Hence table is in 2NF. In both F.D's there is a condidate 3NF: key an IHS hence table is in 3NF. BCNF: In both F.D's there is a c.k In L.H.s so table is an BONF. table - shows: show and, shows teme id, theatre id, movre-9d, release-date. (D) Functional dependency: 1) show_id -> show_time_id, theatre_id, movie_id, recease-date.

NF: C.K= {A}; P.A={B,CD,E}

There are no multivalued attributed. Hence table is in INF.

2NF:

. In both F.D's there is no postful dependency where LHS has no Proper subset of C-K. Hence table is in INF.

3NF:

There is no transitive dependency and also there is a C.K in LHS so the table is in BNF.

BCNF:

timese as a key of s. k. or c.k. in.

rable-show-time. Arta? butes! show-tome-9d, screen-9d, show tome, stalt time. (D) Functional dependency: 1) A -> B, C, D 2) C -> D. candidate Keys: &A} pane Attribute: & A} Non-prime Attributes: &B,C,Dg. There are no mentioned Attributes Hence table PS 90 INF. In both F.D's there is no partial dependency where LHS has no Proper subset of C.K. Hence

table PS Pn 2NF.

3NF: considering F.D: A-DBC,D There 9s a transitive dependency where : A > C , C -> D , A > D so, the tables decomposed as: Ruble (A, B, C, D) F-D: C -> D. FD: A -> B,C table 2: (C,D) Table 1: (A,B,C) (K: Cc) [show-time_id, screen_id, [show-name) C.K: (4) Stalt-time show-name] BCNF: In table 4: (A -> B, C) LHS 95 a C.K. - Hence 9t 95 90 BCNF. In table 2: $(C \rightarrow D)$ LHS 98 or C.K. Hence 1+ 98 80 BCNF.

```
rable - theatre:
Artolbutes:
theatre-9d, theatre-name, address (B)
Functional dependency:
theatre-id -> theatre-name, address.
 C.K = {A}
P. A = & A).
 N.PA = & B,C)
The composite attribute address
INF:
 has sub-attrobutes as: Place,
 state, procode.
 Address (state, place, pincode)
The Table 100 kg 19ke:
Theatre_Pd, Theatre_name, Address
 state, place, pincode.
 It 9s decomed (decomposed)
  as INF.
```

2 NF:

There is no partial dependency and LAS has no proper subset of C.K. Hence table is in 2NF.

3NF:

There 95 no transitive dependency and LHS has C.K so 9t PS In 3NF.

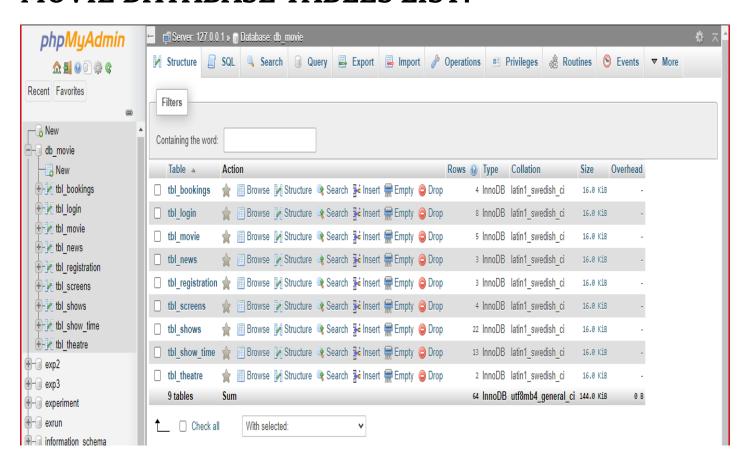
BCNF:

It already satisfies 3NF and The table 9s in BCNF with LHS Of C.K. 00 S.K.

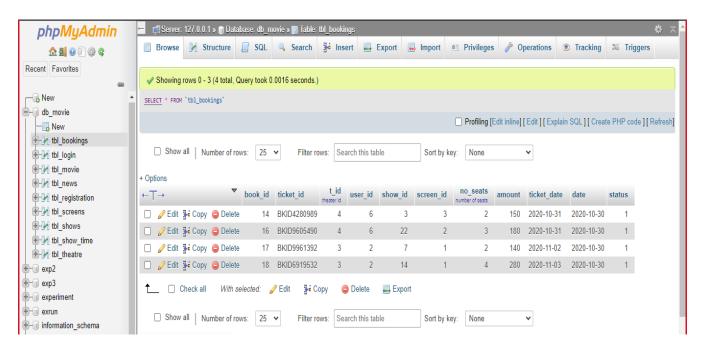
. The tables of all are normalised and decomposed using the rules of named fours.

DATABASE TABLES

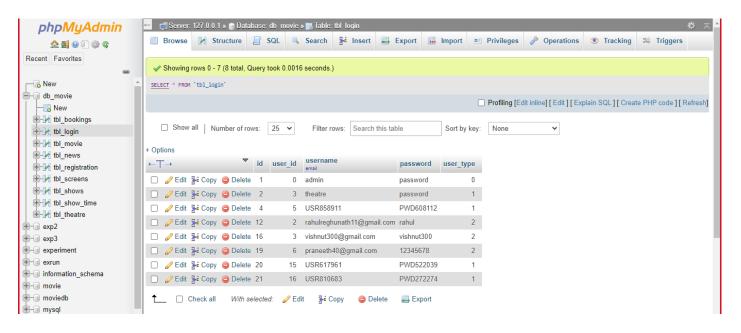
MOVIE DATABASE TABLES LIST:



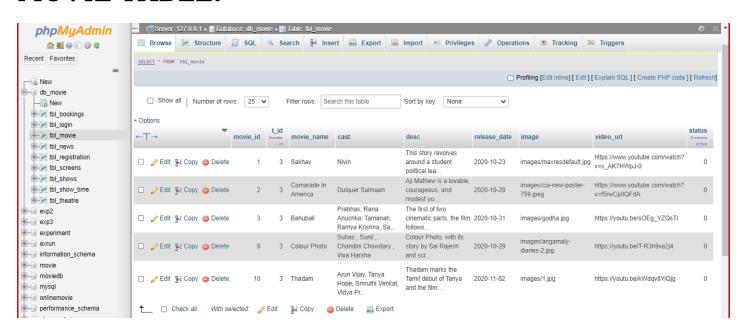
BOOKINGS TABLE:



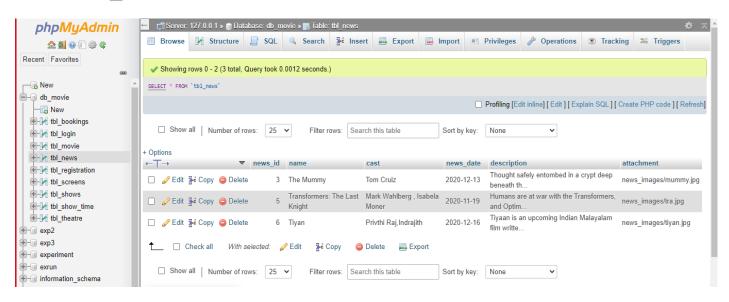
LOGIN TABLE:



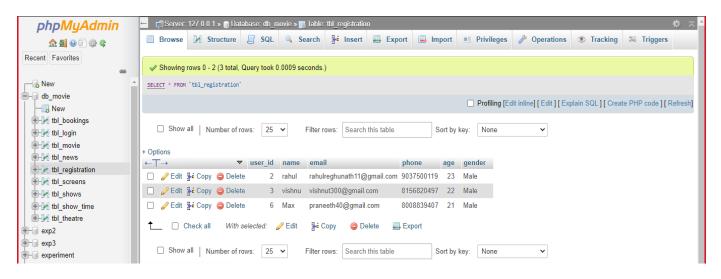
MOVIE TABLE:



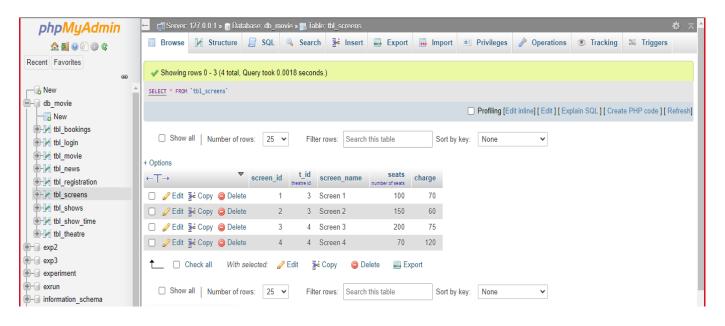
MOVIE_NEWS TABLE:



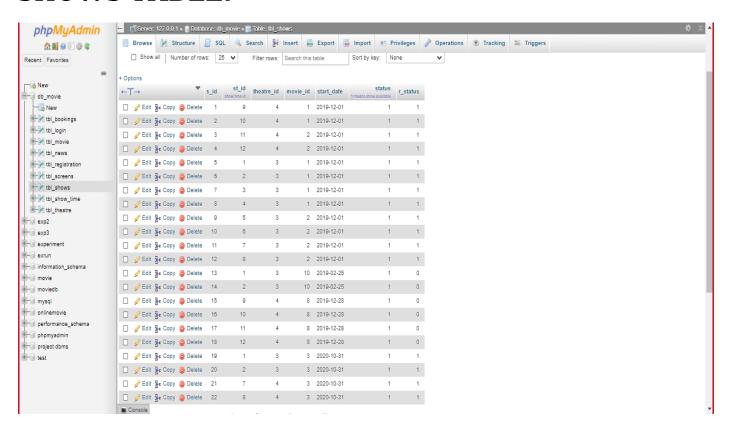
USER_REGISTRATION TABLE:



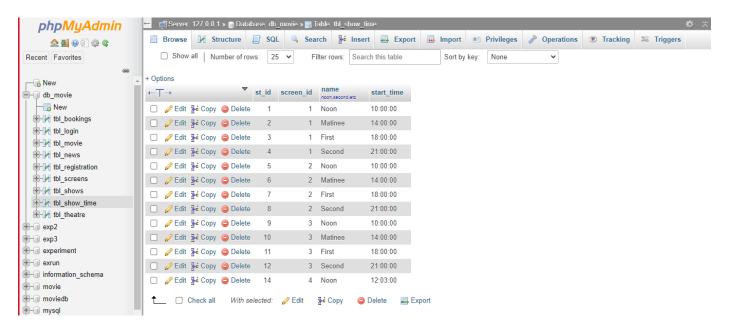
SCREENS TABLE:



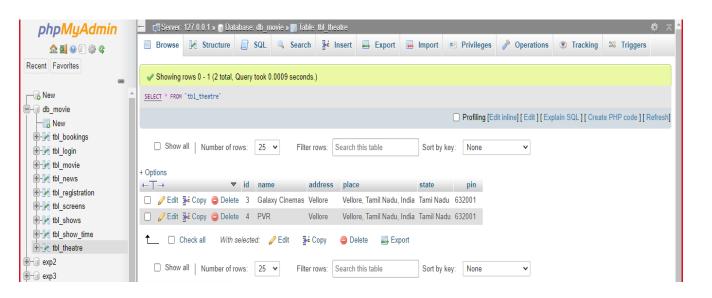
SHOWS TABLE:



SHOW_TIME TABLE:

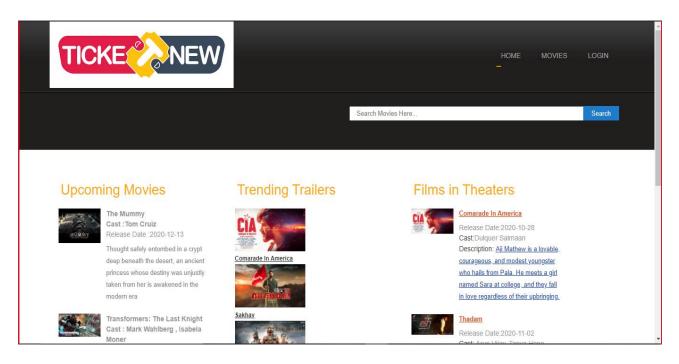


THEATRE TABLE:

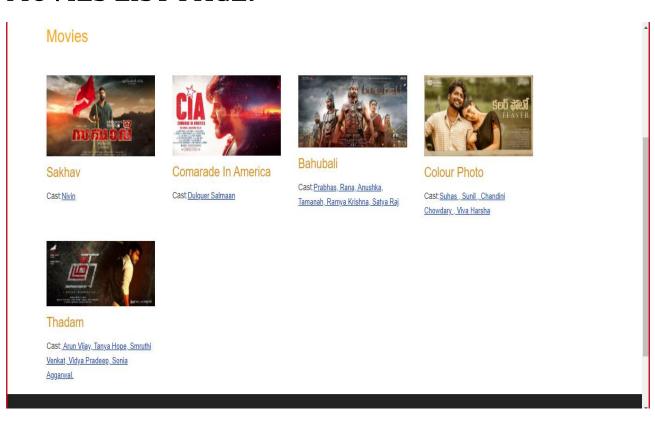


WEB PAGE SCREENSHOTS

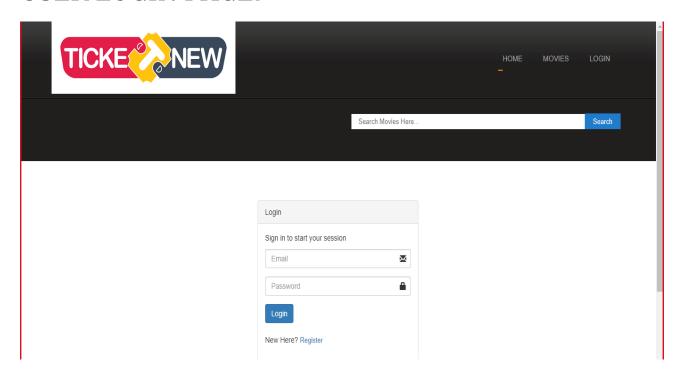
HOME PAGE:



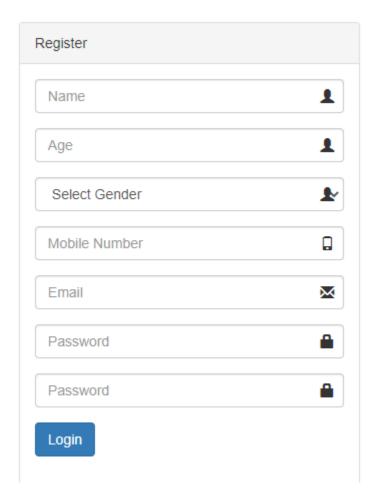
MOVIES LIST PAGE:



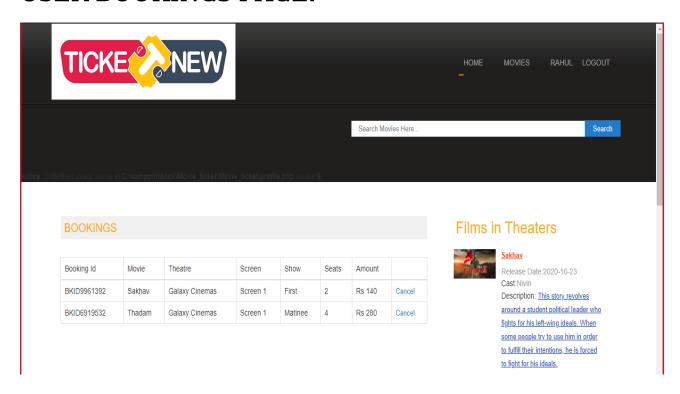
USER LOGIN PAGE:



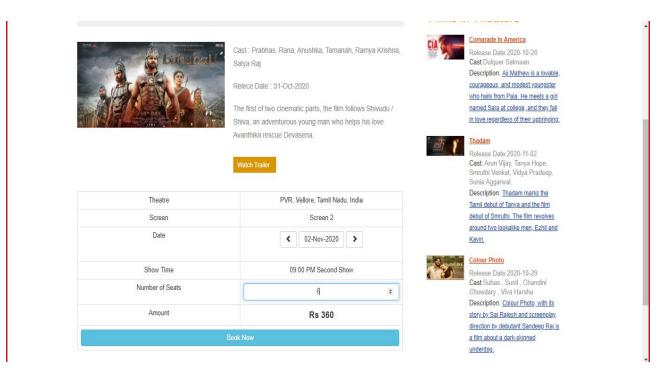
NEW USER REGISTRATION PAGE:



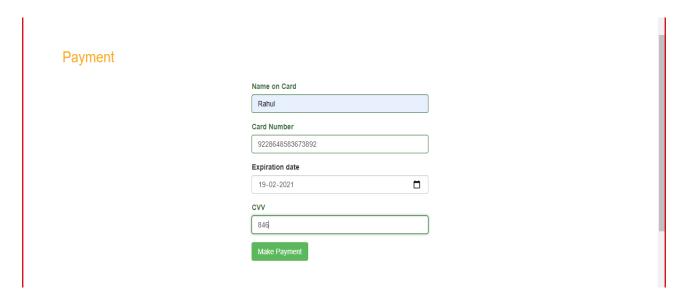
USER BOOKINGS PAGE:



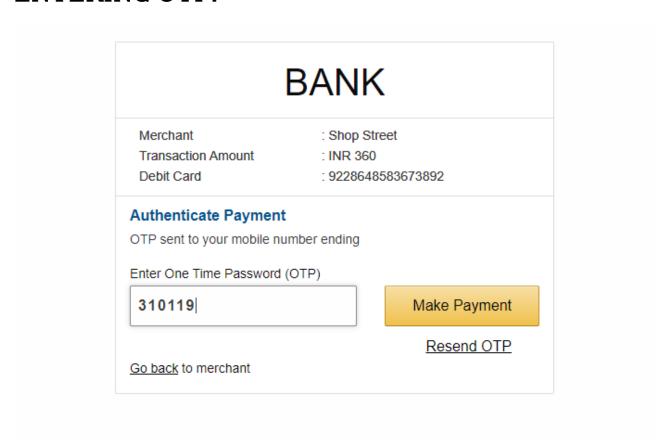
BOOKING A MOVIE:



PAYMENT PAGE:



ENTERING OTP:



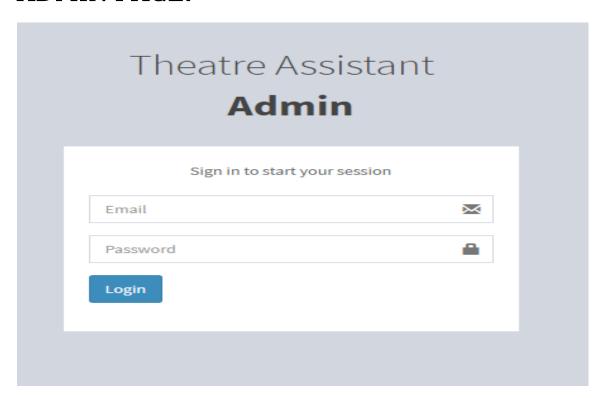
TRANSACTION PROCESSING:

Transaction is being processed,
Please wait (Please do not press 'Refresh' or 'Back' button)

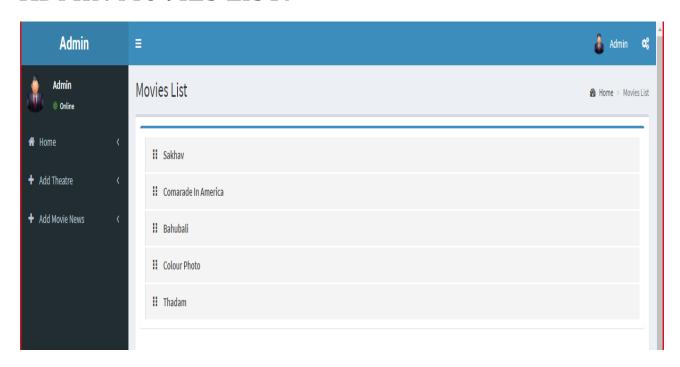
BOOKING CONFIRMATION PAGE:



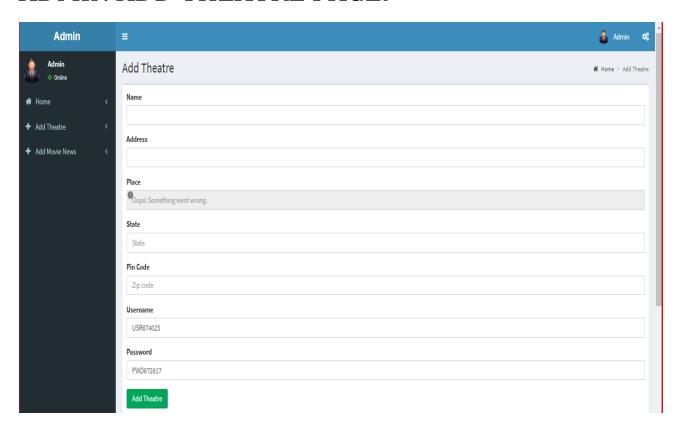
ADMIN PAGE:



ADMIN MOVIES LIST:



ADMIN ADD THEATRE PAGE:



ADMIN ADD MOVIES PAGE:

