A Project Report on Theatre Management System

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DHARMSINH DESAI UNIVERSITY NADIAD-387001, GUJARAT

CERTIFICATE

This is to certify that the project entitled "Theatre management System" is a bonafide report of the work carried out by

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of Department of Information Technology, semester V, under the guidance and supervision for the subject Database Management System. They were involved in Project training during the academic year 2022-2023.

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COMMENDATION

We would like to express our heartfelt gratitude to everyone who contributed to the successful completion of our project "Theatre Management System"

The success and ultimate conclusion of this project necessitated a great deal of advice and support from a large number of individuals, and we are incredibly fortunate to have received it all along with the project's completion.

We owe a debt of appreciation to Prof. Archana N. Vyas, our project guide, who took an interest in our project work and directed us through it till it was completed by giving all of the required assistance for creating a solid Database System.

We'd also want to express our gratitude to all of our speakers. Finally, we express our gratitude to all of our friends and colleagues

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1 SYSYTEM OVERVIEW

1.1 CUREENT SYSTEM

Theatre Management System is to manage the details of Shows, Booking, Payment, Movie, Customer. It manages all the information about Shows, Seats, Customer, Shows. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Shows, Booking, Seats, Payment. It tracks all the details about the Payment, Movie, Customer.

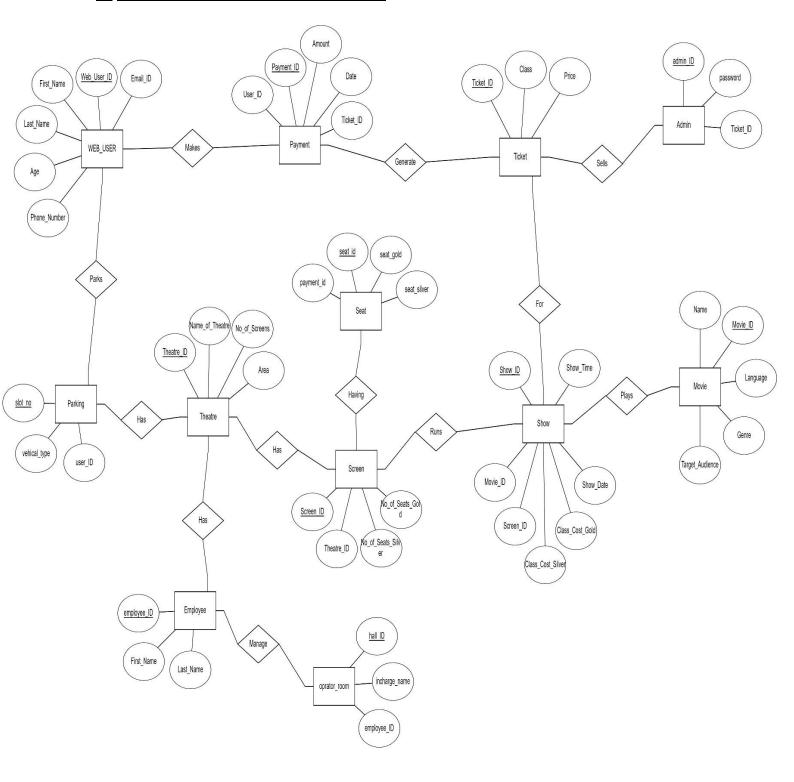
1.2 OBJECTIVE OF PROPOSED SYSTEM

In current tech era most of things happen using internet so with this system user can able to book ticket show seat ,parking slots and can able to book tivket for specific seat and specific movie.

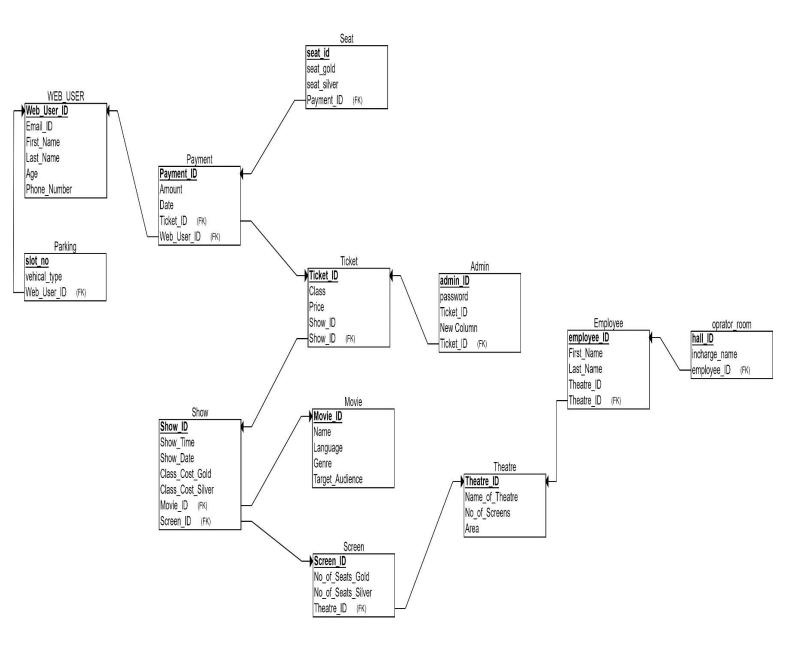
ADVANTAGE OF THE PROPOSED SYSTEM:

- User can able to book tickets online on theatre can able to buy gold silver tickets and also able to check parking slot is available or not.
- Admin can able to analyze how many users come at a day. Which user visits how many times. Admin can able to do all analization of data with this system.

2. ENTITY-RELATIONSHIP MODEL



3. RELATIONAL SCHEMA



4. DATA DICTIONARY

4.1 web user

```
postgres=# \d web user;
                       Table "public.web user"
                       Type
                                     | Collation | Nullable | Default
   Column
web_user_id
               character varying(5)
                                                   not null
first name
               character varying(15)
last name
               character varying(20)
email_id
               character varying(30)
               integer
age
phone number | character varying(10) |
                                                  not null
Indexes:
   "web user pkey" PRIMARY KEY, btree (web user id)
Referenced by:
   TABLE "parking" CONSTRAINT "parking_user_id_fkey" FOREIGN KEY (user_id) REFERENCES web_user(web_user_id)
   TABLE "payment" CONSTRAINT "payment_user_id_fkey" FOREIGN KEY (user_id) REFERENCES web_user(web_user_id)
   check age BEFORE INSERT OR UPDATE ON web user FOR EACH ROW EXECUTE FUNCTION check age()
```

4.2 parking

```
Table "public.parking"

Column | Type | Collation | Nullable | Default

slot_no | character varying(20) | not null |
vehical_type | character varying(20) | |
user_id | character(20) | |
Indexes:
    "parking_pkey" PRIMARY KEY, btree (slot_no)

Foreign-key constraints:
    "parking_user_id_fkey" FOREIGN KEY (user_id) REFERENCES web_user(web_user_id)
```

4.3 theatre

```
postgres-# \d theatre;
                          Table "public.theatre"
                                        | Collation | Nullable | Default
    Column
                           Type
theatre id
                                                       not null
                 | character varying(5)
name_of_theatre | character varying(30)
                                                       not null
no_of_screens
                  integer
area
                 | character varying(30) |
Indexes:
    "theatre_pkey" PRIMARY KEY, btree (theatre_id)
   TABLE "screen" CONSTRAINT "screen theatre id fkey" FOREIGN KEY (theatre id) REFERENCES theatre(theatre id)
   check_location BEFORE INSERT OR UPDATE ON theatre FOR EACH ROW EXECUTE FUNCTION check_location()
```

4.4 movie

```
ostgres-# \d movie;
                           Table "public.movie"
    Column
                           Type
                                        | Collation | Nullable | Default
movie_id
                 character varying(5)
                                                       not null
name
                 | character varying(30)
                                                       not null
language
                 | character varying(10)
                 | character varying(20)
genre
target_audience | character varying(5)
screen_id
                | character varying(5)
Indexes:
    "movie_pkey" PRIMARY KEY, btree (movie_id)
eferenced by:
   TABLE "show" CONSTRAINT "show_movie_id_fkey" FOREIGN KEY (movie_id) REFERENCES movie(movie_id)
```

4.5 show

```
postgres=# \d show;
                            Table "public.show"
                                           | Collation | Nullable | Default
     Column
                             Type
                                                         not null
show id
                   character varying(10)
show_time
                    time without time zone
show date
                    date
                                                         not null
                    integer
class_cost_gold
                                                         not null
class_cost_silver |
                                                         not null
                    integer
screen id
                    character varying(5)
                                                         not null
movie id
                   character varying(5)
                                                         not null
Indexes:
   "show_pkey" PRIMARY KEY, btree (show_id)
oreign-key constraints:
    "show_movie_id_fkey" FOREIGN KEY (movie_id) REFERENCES movie(movie_id)
   "show_screen_id_fkey" FOREIGN KEY (screen_id) REFERENCES screen(screen_id)
Referenced by:
   TABLE "seat" CONSTRAINT "seat_show_id_fkey" FOREIGN KEY (show_id) REFERENCES show(show_id)
   TABLE "ticket" CONSTRAINT "ticket show id fkey" FOREIGN KEY (show id) REFERENCES show(show id)
```

4.6 screen

```
ostgres-# \d screen;
                          Table "public.screen"
                                        | Collation | Nullable | Default
      Column
                             Type
screen_id
                   | character varying(5) |
                                                        not null
no_of_seats_gold
                    integer
                                                        not null
                   integer
no_of_seats_silver
                                                        not null
                   | character varying(5)
theatre_id
indexes:
   "screen_pkey" PRIMARY KEY, btree (screen_id)
oreign-key constraints:
   "screen_theatre_id_fkey" FOREIGN KEY (theatre_id) REFERENCES theatre(theatre_id)
eferenced by:
   TABLE "show" CONSTRAINT "show_screen_id_fkey" FOREIGN KEY (screen_id) REFERENCES screen(screen_id)
```

4.7 seat

```
postgres-# \d seat;
                         Table "public.seat"
  Column
                                     | Collation | Nullable | Default
                       Type
seat id
              character varying(10)
                                                   not null
 seat gold
              integer
                                                   not null
                                                   not null
seat_silver |
              integer
payment id
              character varying(10)
             character varying(10)
show id
Indexes:
    "seat_pkey" PRIMARY KEY, btree (seat_id)
Check constraints:
    "seat seat gold check" CHECK (seat gold <= 50)
    "seat_seat_silver_check" CHECK (seat_silver > 50)
Foreign-key constraints:
    "seat payment id fkey" FOREIGN KEY (payment id) REFERENCES payment(payment id)
    "seat show id fkey" FOREIGN KEY (show id) REFERENCES show(show id)
```

4.8 oprator room

4.9 payment

```
postgres=# \d payment;
                           Table "public.payment"
   Column
                                           | Collation | Nullable | Default
payment_id |
                character varying(20)
                                                           not null
amount
                integer
                                                           not null
date
                date
                                                           not null
user id
                character(20)
ticket_id
               character(20)
indexes:
     "payment_pkey" PRIMARY KEY, btree (payment_id)
 oreign-key constraints:
     "payment_ticket_id_fkey" FOREIGN KEY (ticket_id) REFERENCES ticket(ticket_id)
    "payment_user_id_fkey" FOREIGN KEY (user_id) REFERENCES web_user(web_user_id)
Referenced by:
    TABLE "seat" CONSTRAINT "seat_payment_id_fkey" FOREIGN KEY (payment_id) REFERENCES payment(payment_id)
TABLE "ticket" CONSTRAINT "ticket_payment_id_fkey" FOREIGN KEY (payment_id) REFERENCES payment(payment_id)
```

4.10 ticket

```
postgres=# \d ticket
                        Table "public.ticket"
  Column
                                    | Collation | Nullable | Default
                     Type
             character varying(20)
ticket_id
                                                  not null
             character varying(3)
class
                                                  not null
price
             integer
                                                  not null
show_id
             character varying(10)
payment_id | character varying(10)
Indexes:
    "ticket_pkey" PRIMARY KEY, btree (ticket_id)
oreign-key constraints:
    "ticket_payment_id_fkey" FOREIGN KEY (payment_id) REFERENCES payment(payment_id)
   "ticket_show_id_fkey" FOREIGN KEY (show_id) REFERENCES show(show_id)
Referenced by:
   TABLE "payment" CONSTRAINT "payment_ticket_id_fkey" FOREIGN KEY (ticket_id) REFERENCES ticket(ticket_id)
```

4.11 employee

4.12 admin

5. DATA IMPLEMENTATION

5.1 SCHEMA

5.1.1 web_user

```
CREATE Table Web_user(
Web_User_ID varchar(5),
First_Name varchar(15),
Last_Name varchar(20),
Email_ID varchar(30),
Phone_Number varchar(10) NOT NULL,
Primary Key(Web_User_ID));
```

5.1.2 parking

```
CREATE Table parking(
slot_no varchar(20),
vehical_type varchar(20),
user_ID_char(20),
primary Key(slot_no),
Foreign Key (User_ID) REFERENCES Web_User (Web_User_ID));
```

5.1.3 <u>theatre</u>

```
Create Table Theatre(
Theatre_ID varchar(5),
Name_of_Theatre varchar(30) NOT NULL,
No_of_Screens int,
Area varchar(30),
Primary Key(Theatre_ID));
```

5.1.4 **movie**

```
Create Table Movie(
Movie_ID varchar(5),
Name varchar(30) NOT NULL,
Language varchar(10),
Genre varchar(20),
Target_Audience varchar(5),
Primary Key(Movie_ID));
```

5.1.5 **show**

```
CREATE Table Show(
Show_ID varchar(10),
Show_Time TIME,
Show_Date date NOT NULL,
Class_Cost_Gold int NOT NULL,
Class_Cost_Silver int NOT NULL,
Screen_ID varchar(5) NOT NULL,
Movie_ID varchar(5) NOT NULL,
Primary Key(Show_ID),
Foreign Key (Screen_ID) REFERENCES Screen(Screen_ID),
Foreign Key (Movie_ID) REFERENCES Movie(Movie_ID));
```

5.1.6 <u>screen</u>

```
CREATE TABLE Screen(

Screen_ID varchar(5),

No_of_Seats_Gold int NOT NULL,

No_of_Seats_Silver int NOT NULL,

Theatre_ID varchar(5),

Primary Key(Screen_ID),

Foreign Key(Theatre_ID) REFERENCES Theatre(Theatre_ID));
```

5.1.7 SEAT

```
CREATE Table SEAT(

seat_id vachar(10),

seat_gold int NOT NULL CHECK(seat_gold <=50),

seat_silver int NOT NULL CHECK(seat_silver >50),

payment_id varchar(10),

primary key(seat_id),

Foreign key(payment_id) REFERENCES PAYMENT(payment_id));
```

5.1.8 oprator room

```
CREATE Table oprator_room(
hall_ID varchar(20)
,incharge_name varchar(20),
employee_ID varchar(20),
primary Key(hall_ID),
Foreign Key (employee_ID) REFERENCES employee (employee_ID));
```

5.1.9 payment

```
CREATE Table Payment(
Payment_ID varchar(20),

Amount int NOT NULL,

Date DATE NOT NULL,

User_ID char(20),

Ticket_ID char(20),

Primary Key(Payment_ID),

Foreign Key (User_ID) REFERENCES Web_User (Web_User_ID),

Foreign Key(Ticket_ID) REFERENCES Ticket(Ticket_ID));
```

5.1.10 ticket

```
CREATE Table Ticket(
Ticket_ID varchar(20),
Class varchar(3) NOT NULL,
Price int NOT NULL,
Primary Key(Ticket_ID));
```

5.1.11 <u>employee</u>

```
CREATE Table employee(
employee_ID varchar(20),

First_Name varchar(15),

Last_Name varchar(20),

primary Key(employee_ID));
```

5.1.12 <u>admin</u>

```
CREATE Table admin(
admin_ID varchar(20),
password varchar(10),
primary Key(admin_ID));
```

5.2 INSERTING DATA VALUES

5.2.1 web user:

web_user_id	first_name	last_name	email_id	age	phone_number
100	Amit	Sinha	amitsinhT04@gmail.com	35	9846273634
101	Raghav	Seth	seth.raghav987@gmail.com	26	7845279834
102	Anjali	Gupta	anjali23g@gmail.com	30	8849273345
103	Harsh	Patel	harsh001@gmail.com	25	9846212166
104	Yagnik	Mehta	yagnikmehta@gmail.com	30	9156547567

5.2.2 <u>parking:</u>

```
postgres=# select * from parking;
slot_no | vehical_type | user_id
7 | honda | 101
6 | jaguar | 100
2 | kia | 103
5 | skoda | 102
(4 rows)
```

5.2.3 <u>theatre:</u>

```
postgres=# select * from theatre;
theatre_id | name_of_theatre | no_of_screens |
                                                         area
TØ1
             PVR Cinemas
                                            4 | Koramangala, Bangalore
T02
             INOX Movies
                                            4
                                                Katpadi, Vellore
             Cinepolis
                                                Meera Marg, Gurgaon
T03
T04
             PVR Cinemas
                                            4
                                                Surat, Gujarat
             INOX Movies
T05
                                            2 |
                                                Baroda, Gujarat
T111
             PVR Cinemas
                                           44 | Surat, Gujarat
(6 rows)
```

5.2.4 <u>movie:</u>

movie_id	name	language	genre	target_audience	screen_id
001	Hichki	Hindi	Drama/Comedy	U/A	t011
002	Pacific Rim Uprising	English	Fantasy/SciFi	U/A	t012
003	Strangers : Prey at night	English	Horror	U/A	t013
004	Raado	Hindi	Action	U/A	t014
005	Red	English	Action/Thriller	U/A	t015

5.2.5 show:

_	·			class_cost_silver	_	_
SHT0110001		2021-04-04		350		001
SHT0120001	09:00:00	2021-04-04	400	350	T012	002
SHT0130001	09:00:00	2021-04-04	400	350	T013	003
SHT0140001	11:30:00	2021-04-05	400	350	T012	002
SHT0150001	13:00:00	2021-04-05	300	250	T015	004
5 rows)						

5.2.6 <u>screen:</u>

screen_id	no_of_seats_gold	no_of_seats_silver	theatre_id
T011	20	60	T01
TØ12	20	60	T01
TØ13	20	60	T01
T014	15	50	T02
TØ15	15	50	T02

5.2.7 <u>seat:</u>

and the same of	The second secon	seat_silver		the state of the s
s101	5	55	PAY00001	SHT0110001
s102	j 3 j	61	PAY00002	SHT0120001
s103	25	67	PAY00004	SHT0130001
s104	13	70	PAY00005	SHT0140001

5.2.8 oprator room:

5.2.9 **payment**:

payment_id	amount	date	user_id	ticket_id
PAY00001	1000	2021-04-02	100	
PAY00002	500	2021-04-03	101	
PAY00003	100	2021-04-03	102	1
PAY00004	400	2021-04-03	103	į.
PAY00005	800	2021-04-04	104	
PAY00006	500	2021-04-04	100	1

5.2.10 ticket:

```
postgres=# select * from ticket;
ticket_id | class | price |
                                       show_id
                                                  | payment_id
S0059SHT0110001
                    SLV
                               350
                                      SHT0140001
S0057SHT0110001
                    GLD
                               400
                                      SHT0120001
                                                    PAY00001
S0056SHT0110001
                    GLD
                                      SHT0120001
                                                    PAY00002
                               400
                                      SHT0110001
                                                    PAY00003
S0058SHT0110001
                    SLV
                               350
S0060SHT0110001
                    SLV
                               350
                                     SHT0130001
                                                    PAY00004
(5 rows)
```

5.2.11 <u>employee:</u>

```
postgres=# select * from employee;
employee_id | first_name | last_name
E101
               Raju
                            Gupta
E102
               Aksh
                            Talati
E103
               Deep
                            Sutariya
E104
               Hemant
                            Patel
E105
              Krish
                            Patel
(5 rows)
```

5.2.12 <u>admin:</u>

5.3 QUERIES USING BASIC DBMS CONSTRUCTS.JOIN AND SUBQUERIES:

Queries:

5.3.1 Display name of movie where genre is horror or action.

```
postgres=# select name from movie where genre='Horror' or genre='Action';
name
------
Strangers : Prey at night
Raado
(2 rows)
```

5.3.2 Display name of movie where language is hindi.

```
postgres=# select name as movie_name from movie where language='Hindi';
movie_name
------
Hichki
Raado
(2 rows)
```

5.3.3 Display name of theatre, area and screen id where theatre id is same.

```
postgres=# select name_of_theatre,area,screen_id from theatre left join screen on theatre.theatre_id=screen.theatre_id;
name_of_theatre
                         area
                                      | screen_id
PVR Cinemas
                | Koramangala, Bangalore | T011
                 Koramangala, Bangalore | T012
PVR Cinemas
PVR Cinemas
                 Koramangala, Bangalore | T013
                 Katpadi, Vellore
INOX Movies
                                          T014
                 Katpadi, Vellore
                                         T015
INOX Movies
Cinepolis
                 Meera Marg, Gurgaon
PVR Cinemas
                 Surat, Gujarat
INOX Movies
                 Baroda, Gujarat
PVR Cinemas
                Surat, Gujarat
(9 rows)
```

JOIN Queries:

5.3.4 Display all details of user where user paid more than 500 amount.

```
oostgres=# select * from web_user where web_user_id in (select user_id from payment group by user_id having sum(amount) >500);
web_user_id | first_name | last_name |
                                             email_id
                                                              | age | phone_number
100
              Amit
                           Sinha
                                       amitsinhT04@gmail.com
                                                                     9846273634
104
              Yagnik
                           Mehta
                                                                30
                                                                     9156547567
                                       yagnikmehta@gmail.com
(2 rows)
```

5.3.5 Display name of movie which shown on screen id 1 on date 4.

```
oostgres=# select movie.name from show inner join movie on show.movie_id=movie.movie_id where show.screen_id='T011' and extract(day from show_date)=4;
name
-------
Hichki
(1 row)
```

5.3.6 Display details of user where class is gold.

```
postgres=# select First_Name, Last_Name, Email_Id, Phone_Number, Age from web_user u left join payment p on u.web_user_id=p.user_id left join ticket t on t.payment_id=p.payment_id where class='GLD';
first_name | last_name | email_id | phone_number | age

Amit | Sinha | amitsinhT04@gmail.com | 9846273634 | 35
Raghav | Seth | seth.raghav987@gmail.com | 7845279834 | 26
(2 rows)
```

5.3.7 Display count of customer who paid more than 500 payment on date 4.

Basic queries:

5.3.8 Display total amount collected on month april.

5.3.9 Display theatre name of screen which has no of seats gold is 20.

5.3.10 Display ticket price where class is gold.

```
postgres=# select price from ticket where class='GLD';
price
-----
400
400
(2 rows)
```

5.3.11 Display name of movie according to its id in descending orders.

```
postgres=# select count(no_of_seats_gold) as gold_count from screen group by theatre_id;
gold_count
------
2
3
(2 rows)
```

5.3.12 Display count of gold_count of screens according grouping of theatre id.

5.3.13 Display first name and last name of employee whose id is E101.

5.3.14 Display finding day of show where show time is 9 am.

```
postgres=# select slot_no from parking where vehical_type='kia';
slot_no
------
2
(1 row)
```

5.3.15 Display in which slot kia car is parked.

```
postgres=# select area from theatre where name_of_theatre='PVR Cinemas';
area

Koramangala, Bangalore
Surat, Gujarat
Surat,Gujarat
(3 rows)
```

5.3.16 Display areas where pvr cinema is located

```
postgres=# select name_of_theatre from theatre where area='Baroda, Gujarat';
name_of_theatre
------INOX Movies
(1 row)
```

5.3.17 Display name of theatres located in baroda.

5.4 PL/SQL

VIEW:

ROWTYPE:

```
postgres=# do $$
postgres$# declare total web_user%rowtype;
postgres$# begin
postgres$# select * from web_user
postgres$# into total where web_user_id='100';
postgres$# raise notice 'the full name of web_user are : % %',
postgres$# total.first_name,total.last_name;
postgres$# end
postgres$# $$
postgres$# $$
postgres-# language plpgsql;
NOTICE: the full name of web_user are : Amit Sinha
DO
postgres=#_
```

5.5 FUNCTION & TRIGGERS:

5.5.1 get error when user try to book theatre in Surat, Gujarat area

Function:

```
create function check_location() returns trigger as $$
BEGIN

if NEW.area='surat,Gujarat' then

raise exception 'cannot book here due to curfew';
end if;
return NEW;
END;

$$ LANGUAGE PLPGSQL;

Trigger:

create trigger check_location

BEFORE INSERT OR UPDATE

ON theatre

FOR EACH ROW

EXECUTE PROCEDURE check_location();
```

```
RROR: no language specified
oostgres=# create function check_location() returns trigger as $$
postgres$# BEGIN
postgres$# if NEW.area='surat,Gujarat' then
postgres$# raise exception 'cannot book here due to curfew';
postgres$# end if;
oostgres$# return NEW;
postgres$# END;
oostgres$# $$
postgres-# LANGUAGE PLPGSQL;
CREATE FUNCTION
postgres=# create trigger check_location
postgres-# BEFORE INSERT OR UPDATE
postgres-# ON theatre
postgres-# FOR EACH ROW
postgres-# EXECUTE PROCEDURE check_location();
CREATE TRIGGER
oostgres=# Insert into Theatre values('T111', 'PVR Cinemas', 44, 'Surat,Gujarat');
ostgres=# Insert into Theatre values('T111', 'PVR Cinemas', 44, 'surat,Gujarat');
ERROR: cannot book here due to curfew
ONTEXT: PL/pgSQL function check_location() line 4 at RAISE
ostgres=#
```

5.5.2 get error when under 18 aged person try to book ticket

Function:

```
create function check_age() returns trigger as $$
BEGIN

if NEW.age<18 then

raise exception 'you are not eligible';

end if;

return NEW;

END;

$$ LANGUAGE plpgsql;

Trigger

create trigger check_age

BEFORE INSERT OR UPDATE

ON web_user

FOR EACH ROW

EXECUTE PROCEDURE check_age();
```

```
ostgres=# select * from web_user;
web_user_id | first_name | last_name |
                                                               email_id
                                                                                      | age | phone_number
                                                    amitsinhT04@gmail.com
100
                   Amit
                                    Sinha
                                                                                                9846273634
                                                    seth.raghav987@gmail.com
anjali23g@gmail.com
101
                   Raghav
                                    Seth
                                                                                                 7845279834
102
                   Anjali
                                    Gupta
                                                                                          30
                                                                                                8849273345
103
                   Harsh
                                    Patel
                                                    harsh001@gmail.com
                                                                                                9846212166
                   Yagnik
104
                                   Mehta
                                                    vagnikmehta@gmail.com
                                                                                          30
                                                                                                9156547567
(5 rows)
oostgres=# create function check_age() returns trigger as $$
postgres$# BEGIN
                                                                                       oostgres$# if NEW.age<18 then
postgres$# IT NEW.age(10 then
postgres$# raise exception 'you are not eligible';
postgres$# end if;
postgres$# return NEW;
postgres$# END;
postgres# $$
postgres-# LANGUAGE plpgsql;
CREATE FUNCTION
oostgres=# create trigger check_age
oostgres-# BEFORE INSERT OR UPDATE
oostgres-# ON web_user
postgres-# FOR EACH ROW
postgres-# EXECUTE PROCEDURE check_age();
CREATE TRIGGER
oostgres=# Insert into Web_user values('112', 'shorya', 'rajput', 'shoryaT04@gmail.com', 15, '9446273634');
ERROR: you are not eligible
CONTEXT: PL/pgSQL function check_age() line 4 at RAISE
oostgres=# _
```

5.6 **CURSOR**:

Cursor:

BEGIN;

DECLARE mycur CURSOR FOR

SELECT * FROM show WHERE show date='2021-04-04';

FETCH NEXT FROM mycur;

FETCH PRIOR FROM mycur;

CLOSE mycur;

end;

6 FUTURE ENHANCEMENT:

- We will apply a Front end and Back end and make this system to real working base system.
- We will implement proper user interface and gui so system become more reliable.
- We will make our database on cloud so work become more easy and fast.