Project Report of

ItsShowTime

for

Diploma Computer Engineering 5th semester

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CERTIFICATE

I, hereby, certify that this project report entitled "**ItsShowTime**" submitted to BBIT, V.V. Nagar in partial fulfilment of requirement for the Degree of Diploma Engineering embodies the result of the bonafied work carried out by :

Sr. No	Enrollment No	Name
1	196040307057	Priyanshu Rana
2	196040307014	Gitanjali Ramiya
3	196040307039	Dwij Patel

I find the work complete and sufficient high standard to warrant its presentation for the examination.

I further certify that the work has been carried out under my guidance.

Guided By: Head

                                                                                      Computer Dept.

P. M. Tank   Prof. J. P. Parmar

Place: V.V. Nagar

Dt.

-: ONLINE BOOKING FOR THEATRE HALL TICKET :-

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- **Guided by:-** P.M.Tank sir.

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1. Abstract:-

ॐ <u>Main purpose:-</u>

- Being able to check shows, movies, hall, time, and location easily through online mode.
- Also book and cancel the ticket at our own convenience whenever we want.

ॐ <u>About our website:-</u>

- What does it display: movies running currently, available shows, time of show, available seats in that particular show and the cost of seat.
- As per the screens, various type Of seats are available For example, screen 1 has seat with push back, Screen 2 has seats with push back and leg support and screen 3 provides with bed seat.
- Can easily see the shows and book any number of available seats from this online website.
- The customer has to pay the amount through any kind of online payment through any app like paytm, or phonepe.
- How this website works: It is simple to use. The customer has to open the website, enter the login details, explore the movies, shows, time, and location depending on their need. After seeing all the available shows, the customer needs to make the choice by clicking beside it.

❧ Numbers of users:-

- Customer (the person who books the ticket).
- Theatre Webmaster(someone who takes care of the website, update the new data, and is responsible for making the necessary changes or edits).

❧ Advantages of using this website:-

- It provides with convenience to the customer to get the information and book whatever he/she wants from any place.
- Saves time, as the customer need not travel all the way long to the cinema hall to check any show or book.
- Easier and faster payment as the method of payment is online through apps like googlepay, phonepe and paytm.
- Gives facility to the customer to book a show in advance.

2. Requirements:-

☙ User point of view function :-

- Easy to book any number of tickets.
- View the movies ongoing.
- Book and cancel the show or reduce or add the seats.
- Online payment can be done.

☙ Theatre point of view function:-

- Addition and removal of movies.
- Updates of seats and screens available.
- Billing.

☙ Functions and working:-

▪ User point of view :

- Tab 1 :
- This tab is the first tab, which displays the cover page of the website.
- This tab includes the login on the customer who wants to book the show.
- The login details will include: contact detail- either email or phone number.
- Username and password.

- Tab 2 :
  - This tab contains the movies that are running on the screens at the moment.
  - Here, the customer will be selecting the movie that they want to watch.
  - The customer can also select more than 1 movie if they want to.
  - The screen will be selected as per the movie running in the corresponding screen.

- Tab 3 :
  - This tab will be displaying the number of available seats for the customer to book.
  - Here, the customer can book the seats according to their choices
  - Before finalizing, the option of cancelling or altering the seats(adding or subtracting)

- Tab 4 :
  - After the calculation of total number of the seats and the movie selected, the total amount will be displayed with the description.
  - The cost will depend upon the screen they are going to watch in.
  - The bottom of this tab will contain the online billing payment details and the amount can be paid with some online payment app.

- ■ **Theatre Webmaster point of view :**

- Tab 1 :
- This tab is the first tab, which displays the login details of the admin (webmaster)
- This includes on the username and the password.

- Tab 2 :
- Here, the alteration of the movie displayed is done.
- The old movies are removed which no longer is in the market.
- And the newly launched movies are added for the customers to book.

- Tab 3 :
- The webmaster will have to be a bit active in this section, as the ticket booking and cancellations take place here.
- The webmaster, updates every details of the seat available for the precise display of empty seats to the customers.

- Tab 4 :
- This tab contains the bill.
- The total price is calculated and the bill's soft copy is sent to the customer contact details.

3. ER DIAGRAM:-

☙ Entity sets and attributes:-

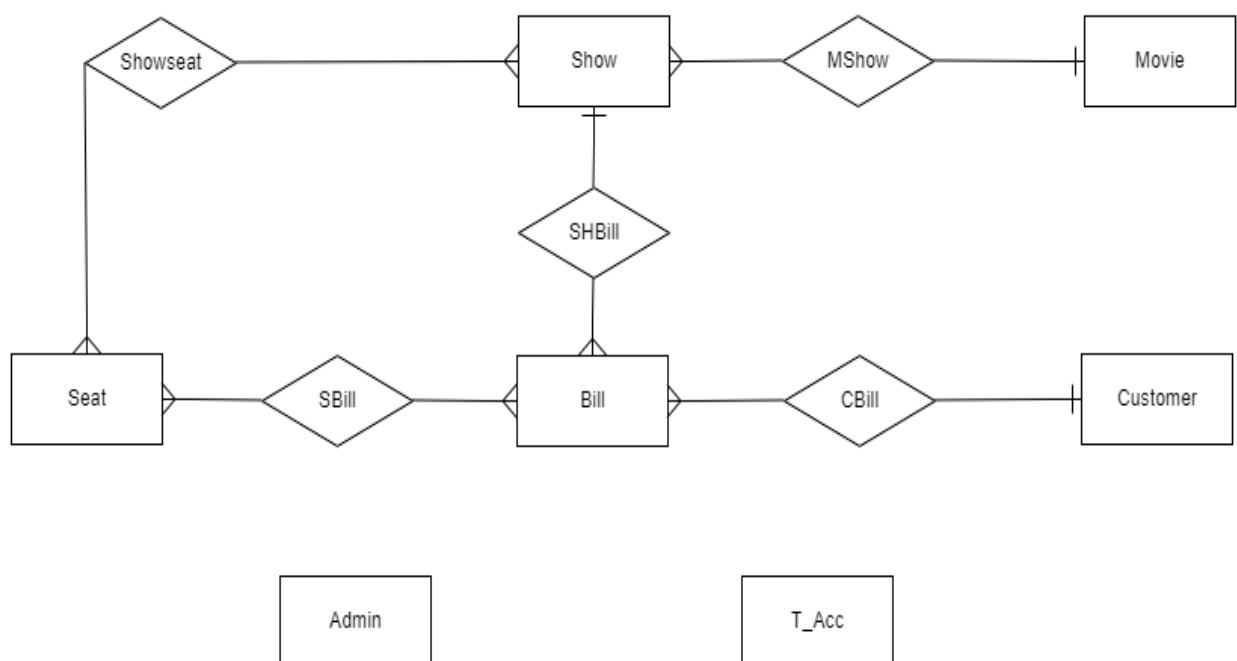| Entity Set	Attributes
Seat	seatid, seatno , row_no, col_no
movie	M_no, m_name, m_dimension, m_language, m_time
Admin	aid, aname, a_cont_no, a_email, a_pass
T_Acc	T_acc_no, T_acc_IFSC, UPI_ID
Show	s_id, s_no, screen_no, type_of_seat, price, s_time, s_date
Customer	cid, cname, c_cont_no, c_email, c_pass
Bill	b_no, b_date, b_time, total_price

☙Associations:-

	Seat	movie	Admin	T_Acc	Show	Customer	Bill
Seat	-	-	-	-	*	-	*
movie	-	-	-	-	*	-	-
Admin	-	-	-	-	-	-	-
T_Acc	-	-	-	-	-	-	-
Show	*	*	-	-	-	-	*
Customer	-	-	-	-	-	-	*
Bill	*	-	-	-	*	*	-

❧ Relationship set:-

Entity sets	Relationship set	Mapping cardinality
Seat-Show	Showseat	Many to many
Seat-Bill	Sbill	Many to many
Movie-Show	MShow	One to many
Show-Bill	ShBill	One to many
Customer-Bill	CBill	One to many

❧ Diagram:-

❧ Relationship set (Derived from ER-D):-

Entity Set	Attributes
Seat	seatid, seatno , row_no, col_no
Customer	cid, cname, c_cont_no, c_email, c_pass
Admin	aid, aname, a_cont_no, a_email, a_pass
T_Acc	T_acc_no, T_acc_IFSC, UPI_ID
Show	s_id, s_no, screen_no, type_of_seat, price, s_time, s_date
Movie	M_no, m_name, m_dimension, m_language, m_time, s_id
Bill	b_no, b_date, b_time, total_price, cid ,sid
Showseat	s_id, seatid, status
Sbill	Seatid, b_no

4. Data Dictionary:-

☙ Seat:-

Col-name	Type	Size	Constraint	Represents
Seatid	CHAR	5	PRIMARY KEY	Seat Id
Seatno	VARCHAR2	4	NOT NULL	Seat No.
Row_No	CHAR	2	NOT NULL	Row No.
Col_No	NUMBER	2	NOT NULL	Column No.

☙ Customer:-

Col-name	Type	Size	Constraint	Represents
cid	CHAR	10	PRIMARY KEY	Customer Id
cname	CHAR	20	NOT NULL	Customer Name
c_cont_no	VARCHAR2	20	NOT NULL	Customer Contact No
c_email	VARCHAR2	30	NOT NULL	Customer Email
c_pass	VARCHAR2	15	NOT NULL	Customer Password

✑ **Admin:-**

Col-name	Type	Size	Constraint	Represents
<u>aid</u>	<u>CHAR</u>	<u>10</u>	<u>PRIMARY KEY</u>	<u>Admin Id</u>
aname	CHAR	20	NOT NULL	Admin Name
a_cont_no	VARCHAR2	20	NOT NULL	Admin Contact No
a_email	VARCHAR2	30	NOT NULL	Admin Email
a_pass	VARCHAR2	15	NOT NULL	Admin Password

✑ **T_Acc:-**

Col-name	Type	Size	Constraint	Represents
T_acc_no	<u>VARCHAR2</u>	<u>20</u>	<u>PRIMARY KEY</u>	<u>Account no</u>
T_acc_IFSC	VARCHAR2	20	NOT NULL	IFSC
UPI_ID	VARCHAR2	20	NOT NULL	UPI ID

☙ Show:-

Col-name	Type	Size	Constraint	Represents
s_id	CHAR	10	PRIMARY KEY	Show Id
s_no	CHAR	20	NOT NULL	Show No
screen_no	VARCHAR2	20	NOT NULL	Screen No
type_of_seat	CHAR	30	NOT NULL	Type Of Seat
price	VARCHAR2	15	NOT NULL	Price
s_time	VARCHAR2	10	NOT NULL	Show Time
s_date	DATE	15	NOT NULL	Show Date

☙ Movie:-

Col-name	Type	Size	Constraint	Represents
M_no	VARCHAR2	10	PRIMARY KEY	Movie No
m_name	CHAR	30	NOT NULL	Movie Name
m_dimension	VARCHAR2	10	NOT NULL	Movie Dimention
m_language	CHAR	30	NOT NULL	Movie Language
m_time	VARCHAR2	15	NOT NULL	Movie Time
s_id	**CHAR**	**10**	**FOREIGN KEY**	**Show Time**

❧ Bill:-

Col-name	Type	Size	Constraint	Represents
b_no	CHAR	10	PRIMARY KEY	Bill No
b_date	DATE	10	NOT NULL	Bill Date
b_time	VARCHAR2	10	NOT NULL	Bill Time
total_price	VARCHAR2	10	NOT NULL	Total Price
cid	**CHAR**	**10**	**FOREIGN KEY**	**Customer Id**
s_id	**CHAR**	**10**	**FOREIGN KEY**	**Show Time**

❧ Showseat:-

Col-name	Type	Size	Constraint	Represents
s_id	**CHAR**	**10**	**FOREIGN KEY**	**Show Id**
Seatid	**CHAR**	**5**	**FOREIGN KEY**	**Seat Id**
status	CHAR	20	NOT NULL	Seat status

❧ Sbill:-

Col-name	Type	Size	Constraint	Represents
Seatid	**CHAR**	**5**	**FOREIGN KEY**	**Seat Id**
b_no	**CHAR**	**10**	**FOREIGN KEY**	**Bill No**

5. Data Flow Diagram:-

• Level 0(Context Level):
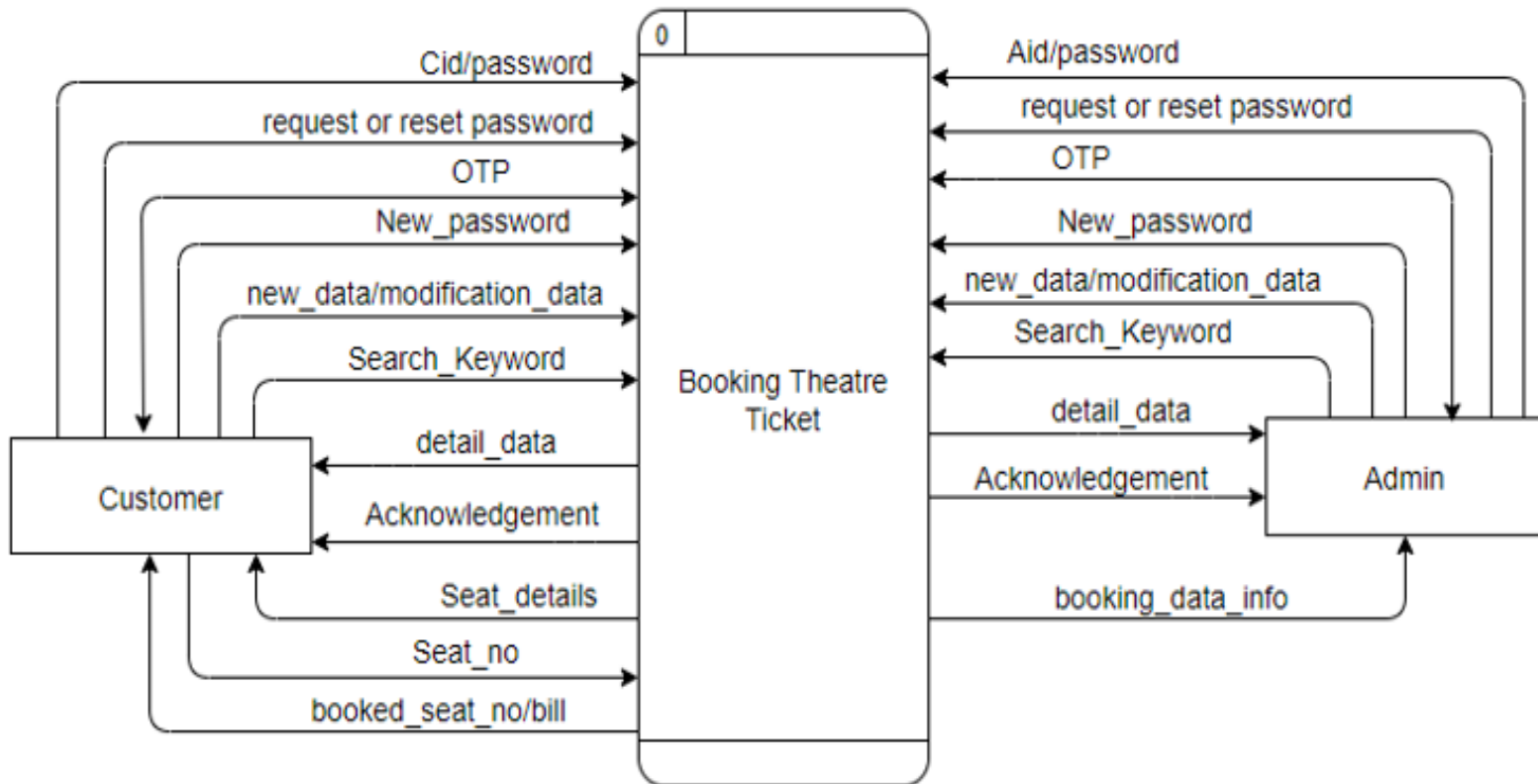
• For customer:

new_data/modification data: The customer can enter new data. The customer will be able to add, remove, edit customer data.
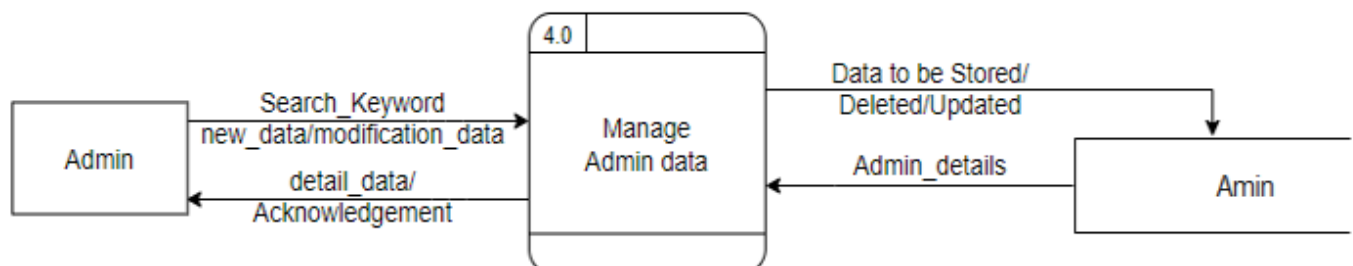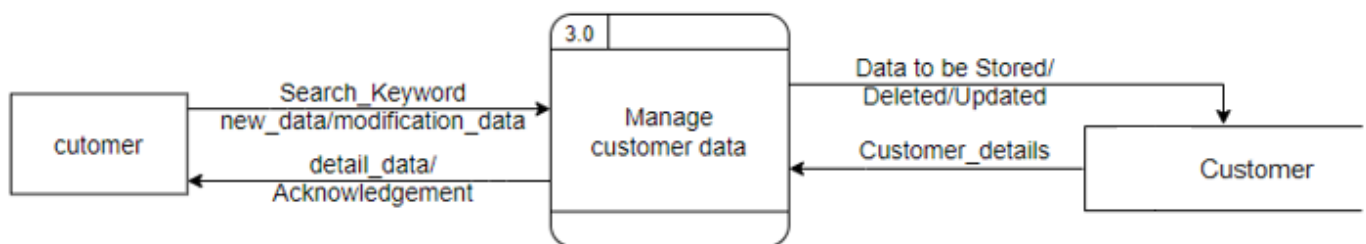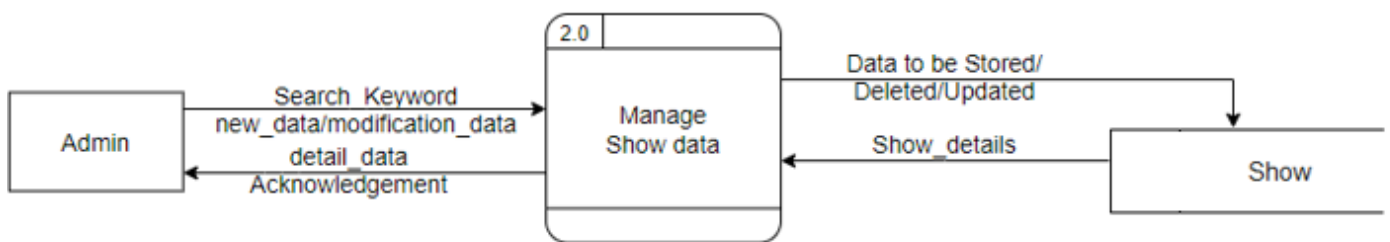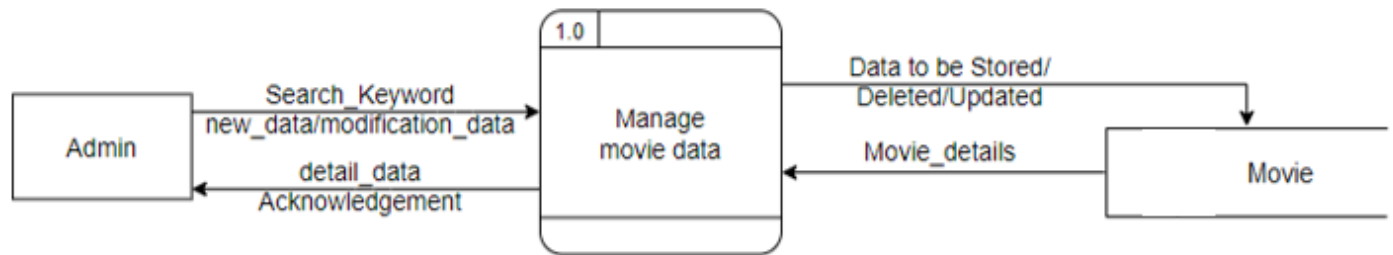
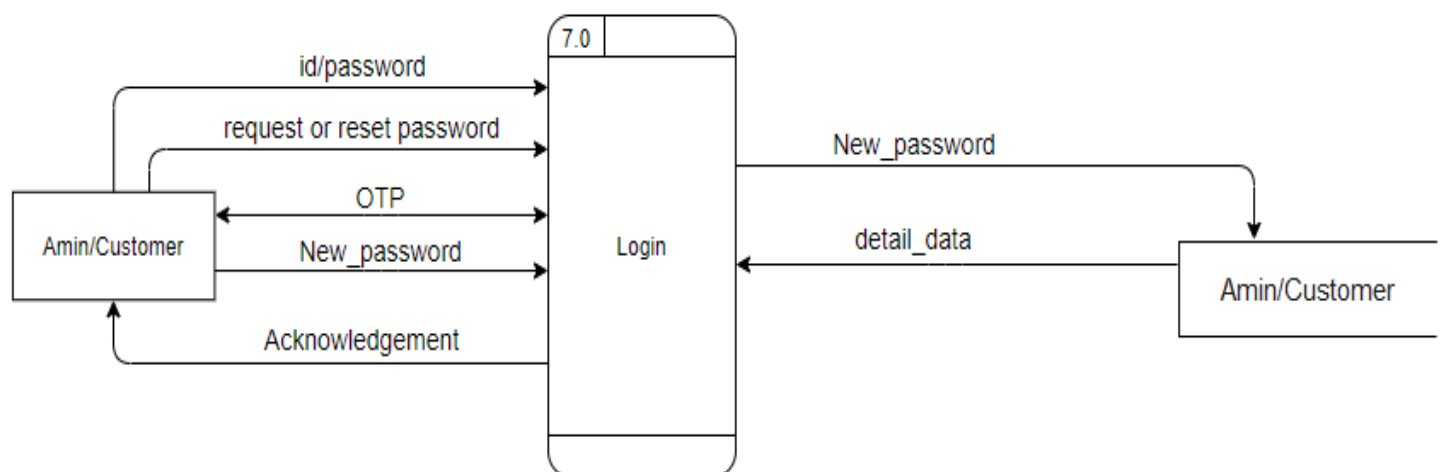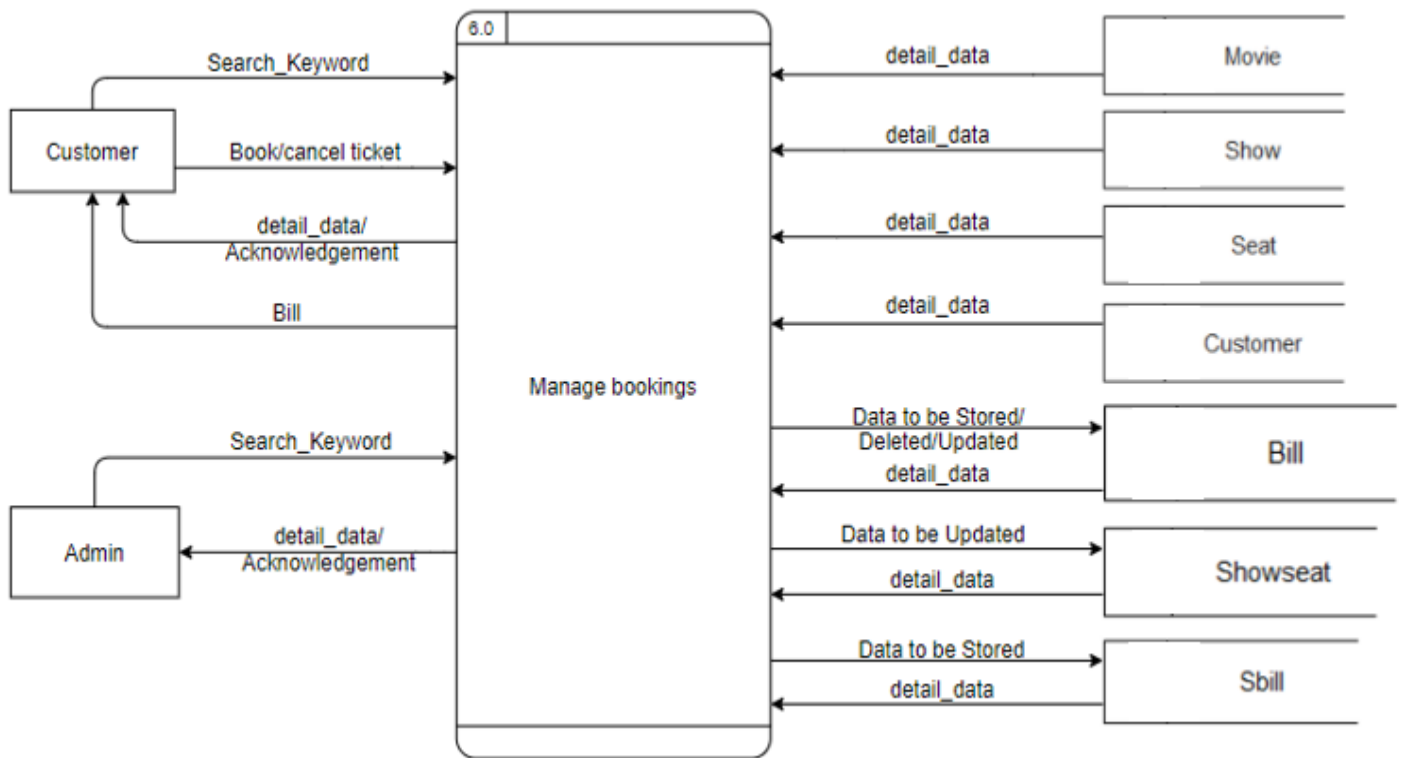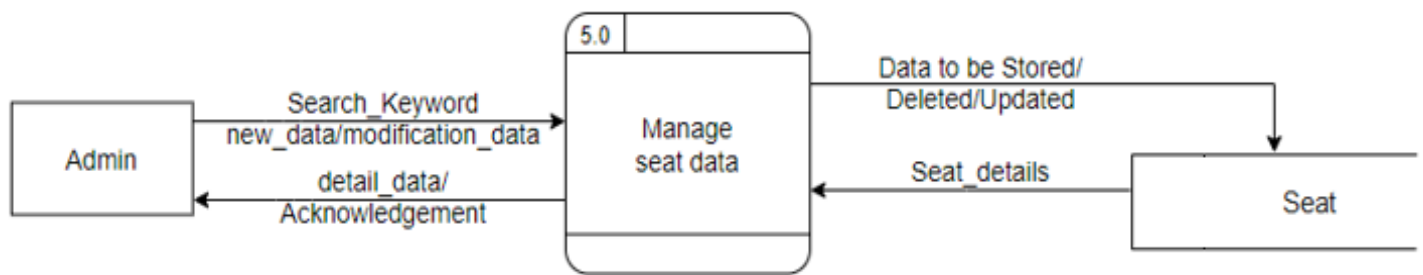search_keyword: The customer can search for available movies, shows, timings and available seats.

• For Admin:

new_data/modification data: The admin can enter new data. The admin will be able to add, remove or edit data related to movies, shows, and seats.
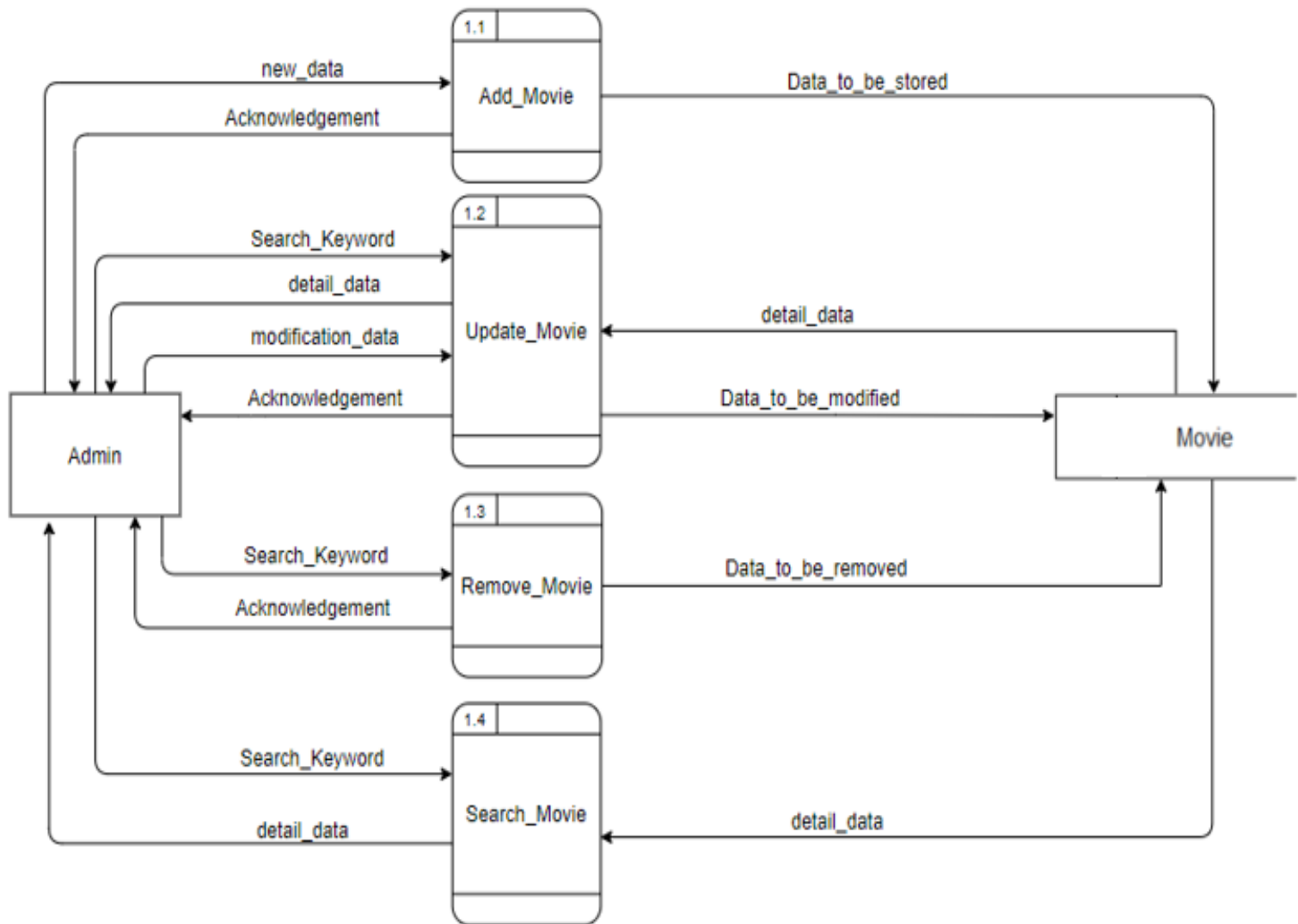
search_keyword: The admin can search for the movies, shows, and available seats displayed and the bookings done so far.

- **Level 1:**

5.0 Manage seat data

Admin → Manage seat data: Search_Keyword new_data/modification_data
Manage seat data → Admin: detail_data/ Acknowledgement
Manage seat data → Seat: Data to be Stored/ Deleted/Updated
Seat → Manage seat data: Seat_details

6.0 Manage bookings

Customer → Manage bookings: Search_Keyword
Customer → Manage bookings: Book/cancel ticket
Manage bookings → Customer: detail_data/ Acknowledgement
Manage bookings → Customer: Bill
Admin → Manage bookings: Search_Keyword
Manage bookings → Admin: detail_data/ Acknowledgement
Movie → Manage bookings: detail_data
Show → Manage bookings: detail_data
Seat → Manage bookings: detail_data
Customer → Manage bookings: detail_data
Manage bookings → Bill: Data to be Stored/ Deleted/Updated
Bill → Manage bookings: detail_data
Manage bookings → Showseat: Data to be Updated
Showseat → Manage bookings: detail_data
Manage bookings → Sbill: Data to be Stored
Sbill → Manage bookings: detail_data

7.0 Login

Amin/Customer → Login: id/password
Amin/Customer → Login: request or reset password
Login → Amin/Customer: OTP
Amin/Customer → Login: New_password
Login → Amin/Customer: Acknowledgement
Login → Amin/Customer: New_password
Amin/Customer → Login: detail_data

- **Level 2:**

- Customer:
  Search_keyword: the customer will be able to search data regarding movies, shows and seats then proceed with bookings.
- Admin:
  Search_keyword: the admin will be able to search about the bookings done by customer.

```
                                    ┌─────┬──────────────┐
                                    │ 7.1 │              │
┌──────────────┐    id/password     ├─────┴──────────────┤                           ┌──────────────┐
│              │ ─────────────────► │                    │       detail_data         │              │
│ Amin/Customer│                    │  Verify credentials│ ◄──────────────────────── │ Amin/Customer│
│              │ ◄───────────────── │                    │                           │              │
└──────────────┘   Acknowledgement  │                    │                           └──────────────┘
                                    └────────────────────┘
```
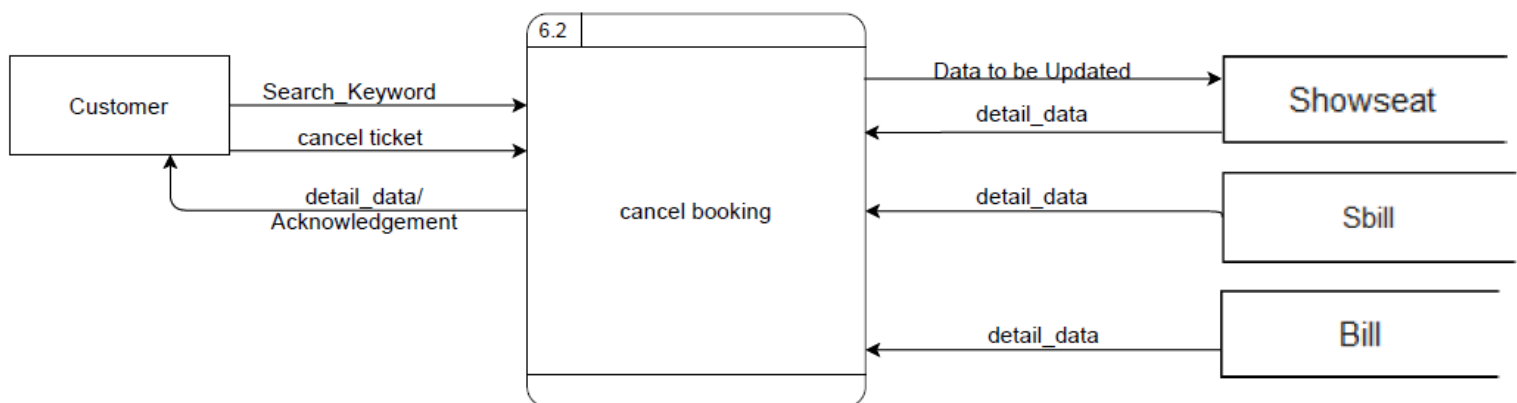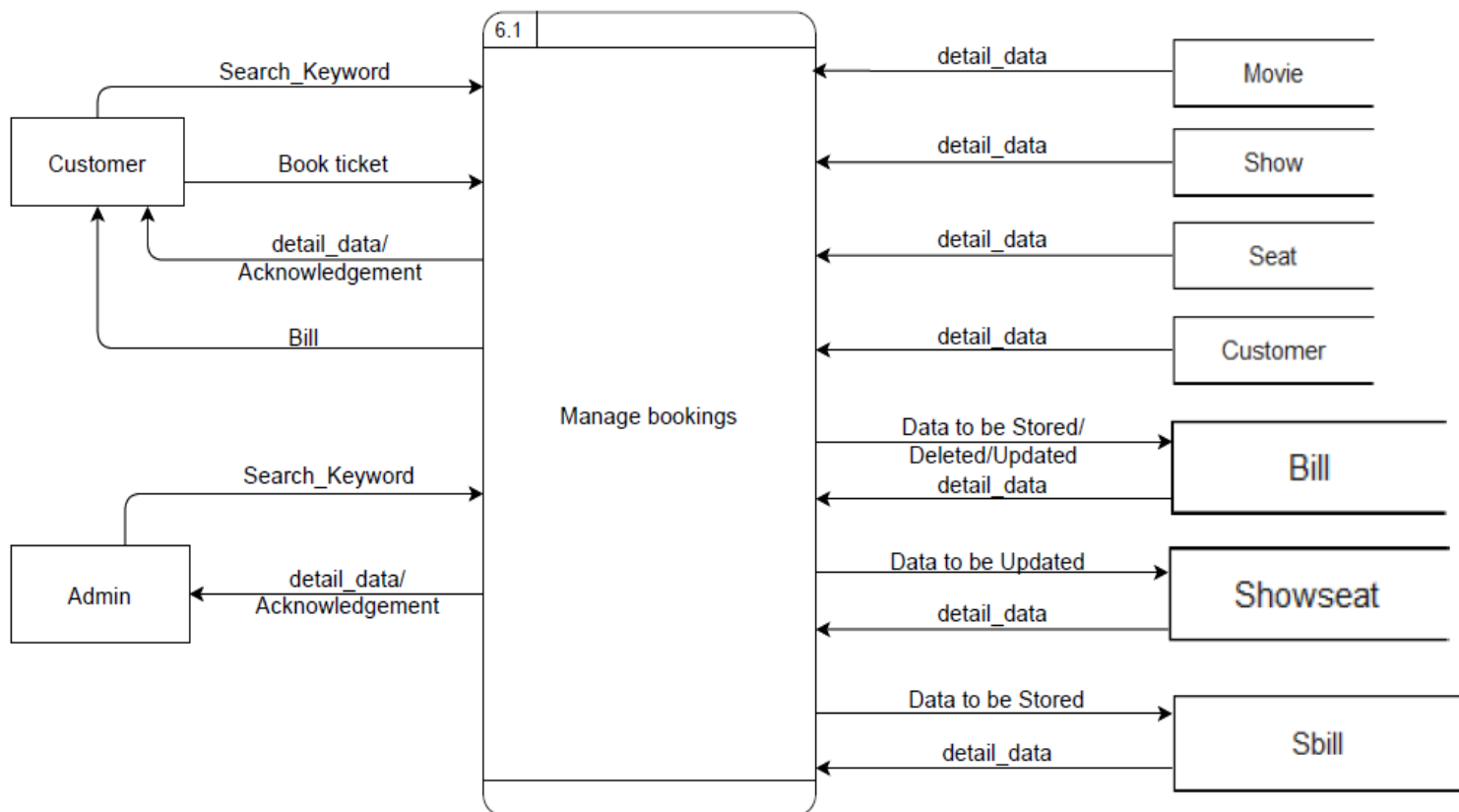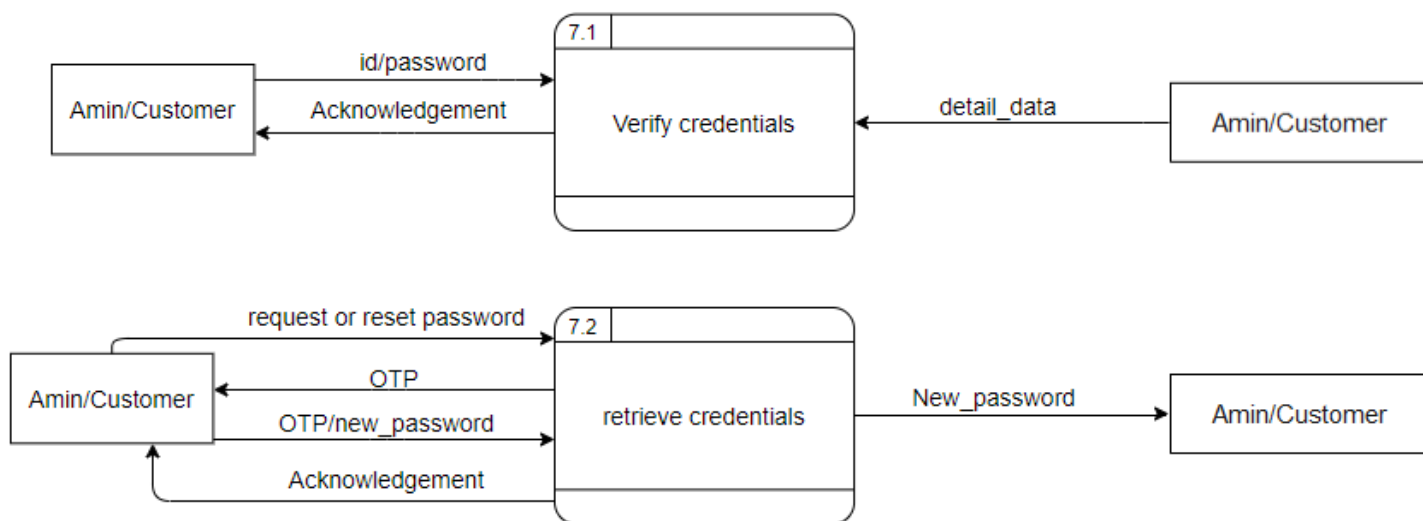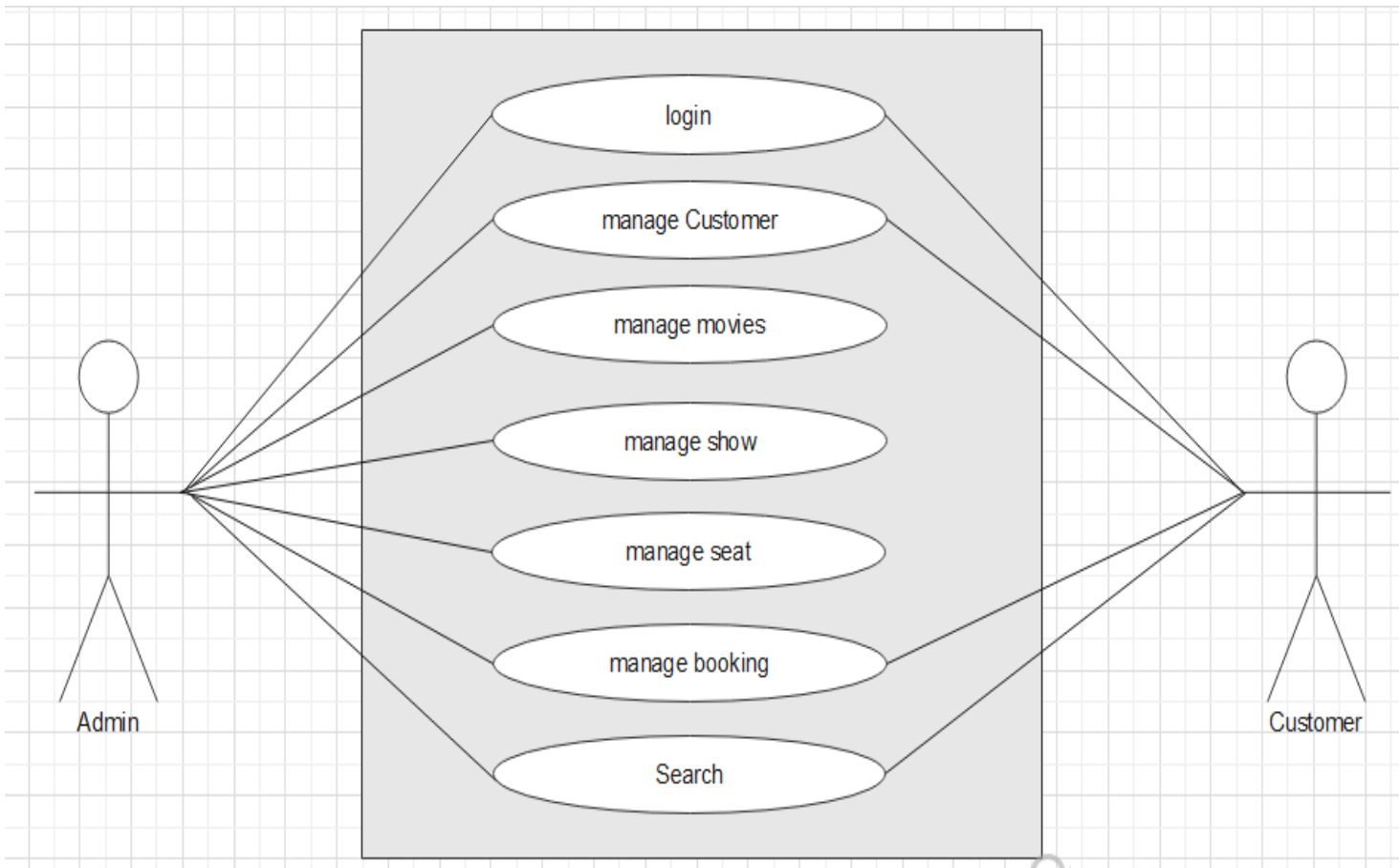
```
                request or reset password   ┌─────┬──────────────┐
              ┌──────────────────────────►  │ 7.2 │              │
              │                              ├─────┴──────────────┤
┌──────────────┐         OTP                 │                    │      New_password        ┌──────────────┐
│              │ ◄────────────────────────── │                    │ ───────────────────────► │              │
│ Amin/Customer│      OTP/new_password       │ retrieve credentials│                         │ Amin/Customer│
│              │ ──────────────────────────► │                    │                          │              │
└──────────────┘                             │                    │                          └──────────────┘
              ▲        Acknowledgement        └────────────────────┘
              └─────────────────────────────
```

6. <u>Use Case Diagram:</u>

- The customer will be able to add/remove or edit data in manage customer and will be able to view what has been booked from manage booking.
- The customer will be able to search for the ongoing movies, shows, and available seats for further booking purposes.

7. <u>Conclusion:</u>

- This project has provided us with vast range of knowledge regarding databases, data flow diagram and use case diagrams.
- It has given us the training on how to work with different levels of diagrams.
- Apart from learning, we have had a great time with teachers as they have given full support with any problem that we had.
- We are hoping that this will definitely be very useful for future use by the people.