



North South University

CSE327: Software Engineering

Section- 3 Group 8

Final Project Report

Movie Theater Management System

Submitted to

Faculty : MRH1

CSE 327 Section-3 Group-8

Group Members

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Abstract

Our project is a movie theatre management system of the theatre name being "Dhaka Cinemax" Users of the movie ticket booking system can inquire about the movies that are currently playing, the ability to reserve and cancel movie tickets, and inquire about the status of the reserved tickets, the theater type and class type, etc. This project's goal is to create a website that provides a simple platform for people to learn about popular movies and purchase cinema tickets in the Making it as simple as possible for everyone to purchase tickets at any time anywhere, too. This project includes an introduction to the mechanism for purchasing cinema tickets. It is an automated system for making reservations for movie seats in advance. This virtual ticket for a movie the use of a booking system can make purchasing movie tickets much simpler than ever before. Additionally, this project includes an introduction to the relational model and an example of basic SQL queries that can be used to obtain data from the system's database based on an entity relationship model diagram based on a system for booking movie tickets.

SRS

Software Requirements Specification for Cinema Hall Management System:

Problem Definition:

In this day and age of the modern era, it's very impractical for people to have to go to the theater only to find out that all the tickets are sold out or even worse, the employees at the ticket counter are holding tickets to sell in black market.

But having the whole system be user focused online experience, people can book tickets online, the availability of tickets and most importantly the show time, where now-a-days people have to waste a lot of time as they get to know about their show time while they are booking their tickets. On the other hand, people will also get the opportunity to know about the price of each

show tickets while reserving tickets for their desired show. Moreover as all the information will be available online the employees will not be able to hold any tickets as particular section will be administered by different users, such as the user will only have the access to buy tickets, seat reservation, selecting timing slot etc. The admin will have the access to add New movies, modify movie detail, delete movie listings, sort Movie By Genre and the theater panel will have management side of things such as the user can manage movie details, shows, list bookings, screen, timings, and theater details. Here the user can choose a movie, screen, showtimes, and an opening date in order to organize shows.

Motivation:

Watching movies has never been this hard nowadays. New movie releases and a surge in popularity amongst the youth for watching movies have never been much higher than before. Post covid a lot of new blockbuster movies are being released and as I don't have any theaters in my neighborhood standing in long lines of queue only to get rejected at the counter to know its sold out is largely disappointing. Moreover there are people who buy a large amount of tickets and sell it as scalp to the black market. At that moment if only there was a platform that is centralized and web-based that might help people to have an easy access to book tickets without even standing on a queue in front of the ticket counters. Moreover, this online system would have the clear idea about the seat availability, the time slot of each show, even the price of each show's ticket so that no one would be able to sell the tickets in black.

Challenges:

Fluid UI: The challenges for this project include making a fluid UI design with modern design in which customers can easily purchase the movie tickets without looking outdated. The other three challenges include the building blocks of the project. The client side of the panel, the admin side of the panel and the theater panel.

User Panel : Customers can check the total number of movies that are now available, future movies, and the top movie trailers for each on the client-side overview of this website. The customers can also proceed to pay for their tickets and see their booking number.

Admin Panel: The admin has the ability to view and edit every movie playing in theaters and delete it. By including information about the title, actors, release date, narrative summary, specific trailer, and movie poster, he or she can provide information on upcoming films.

Theater Management Panel: The user has access to a wide range of system features after logging into the theater panel. The user can manage movie information, shows, list reservations, screen, timings, and theater information here. The user must choose a movie, screen, showtimes, and an opening date in order to organize shows. After that, the user can simply switch the movie's show's state to "running" and stop it if desired. The number of currently playing movies is also listed in a table format on the main dashboard page, along with each movie's showtime, title, and screen. He or she can list all the bookings for a specific show and screen under the bookings area.

Functional Requirements

- Admin Panel with Admin Log-In
- Add new movies (Admin Access)
 - Add new movies
 - Edit Details
 - Delete from listing
- Admin can see and update Bookings
- Customer Registration Without Log-in
- Display Current Movies on the Home page
- Ticket booking system
 - Name
 - Contact number
 - Theatre Selection
 - Seat Group selection
 - Quantity
 - Date picker
 - Dynamic time slot

Non-functional Requirements

- Bug-Free experience
- Ease of use focused design
- Dynamic Web page

Tools/Technologies which will be used for the development

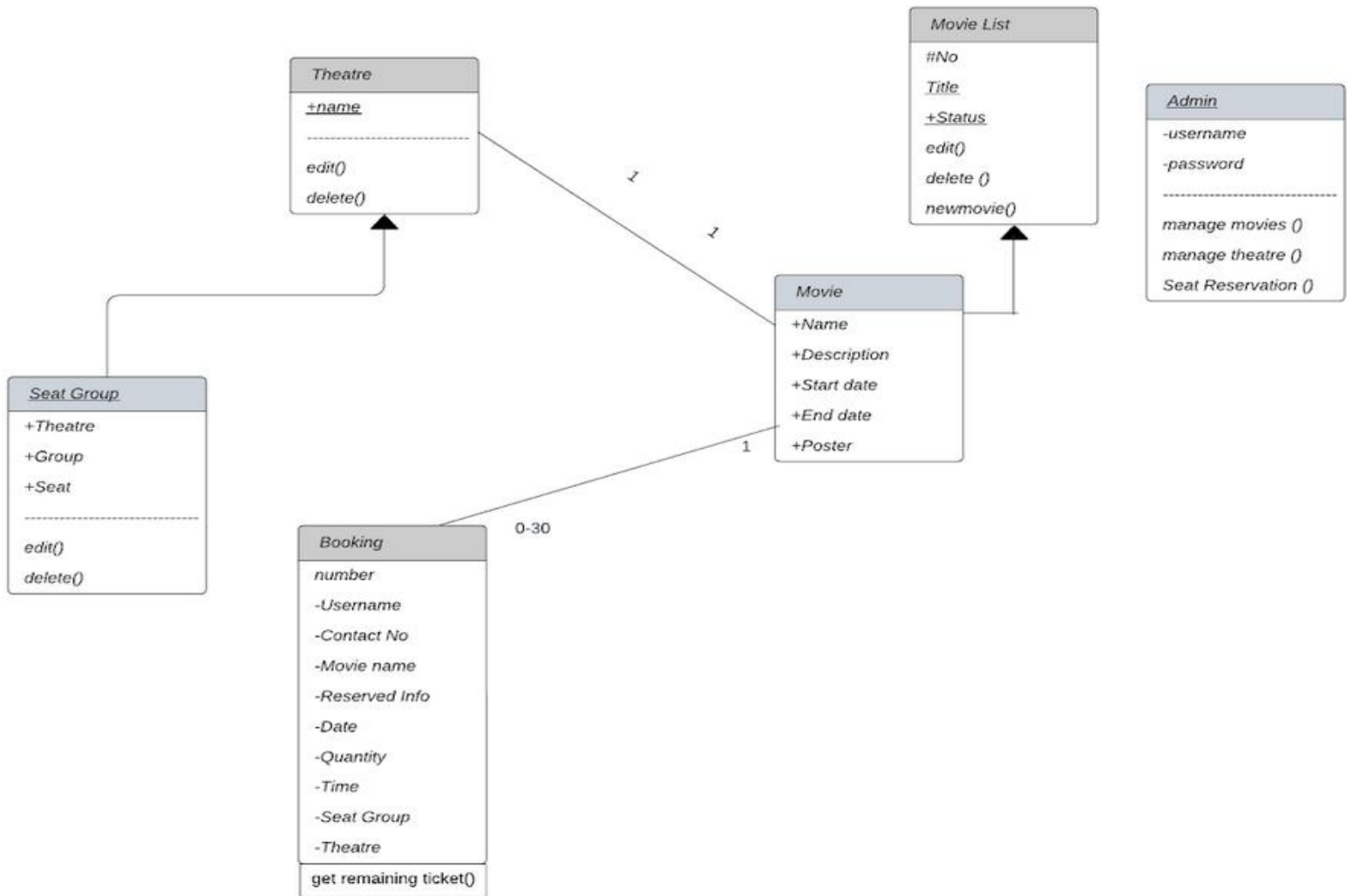
Front End UI - HTML, CSS, Bootstrap

Form Validation - JS

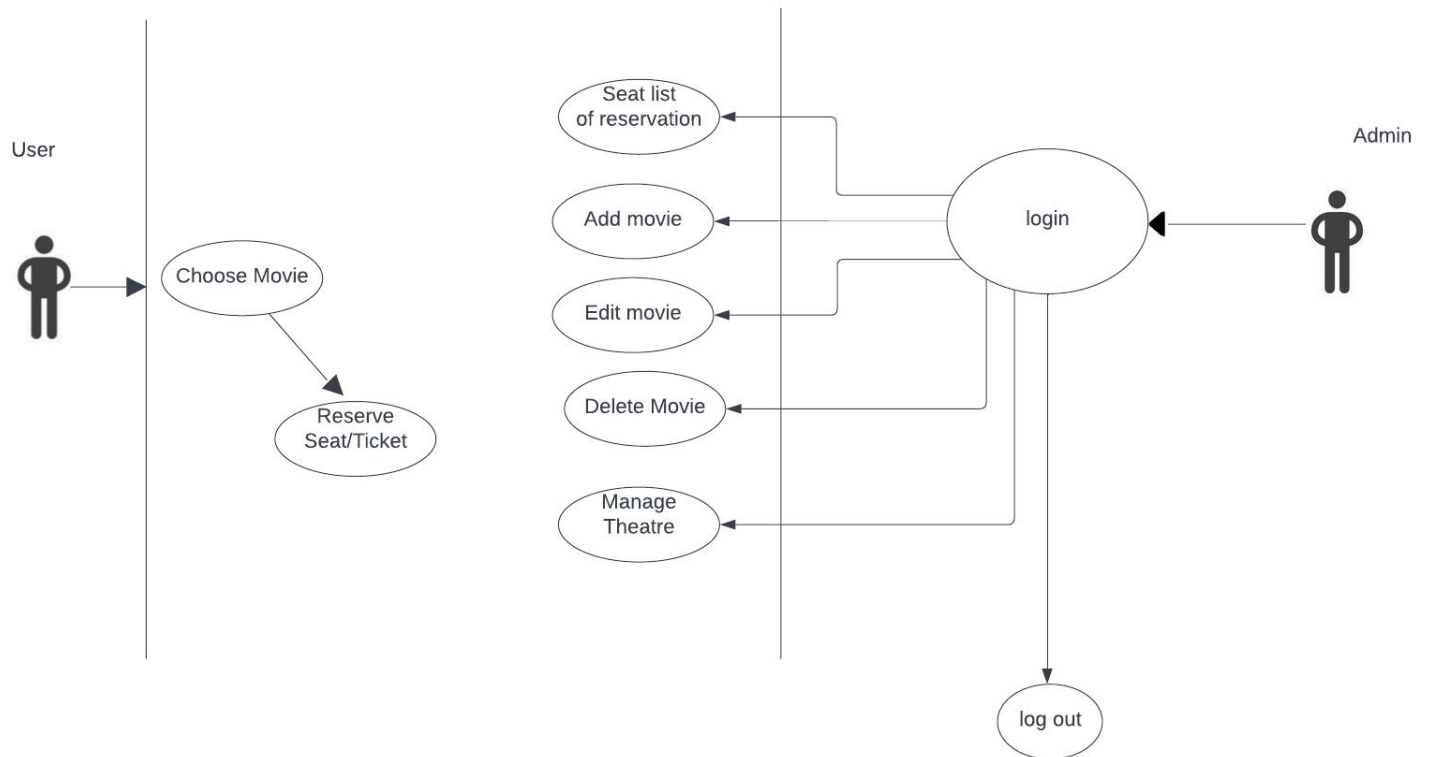
Backend code - PHP , SQL

Database Management - Mysql

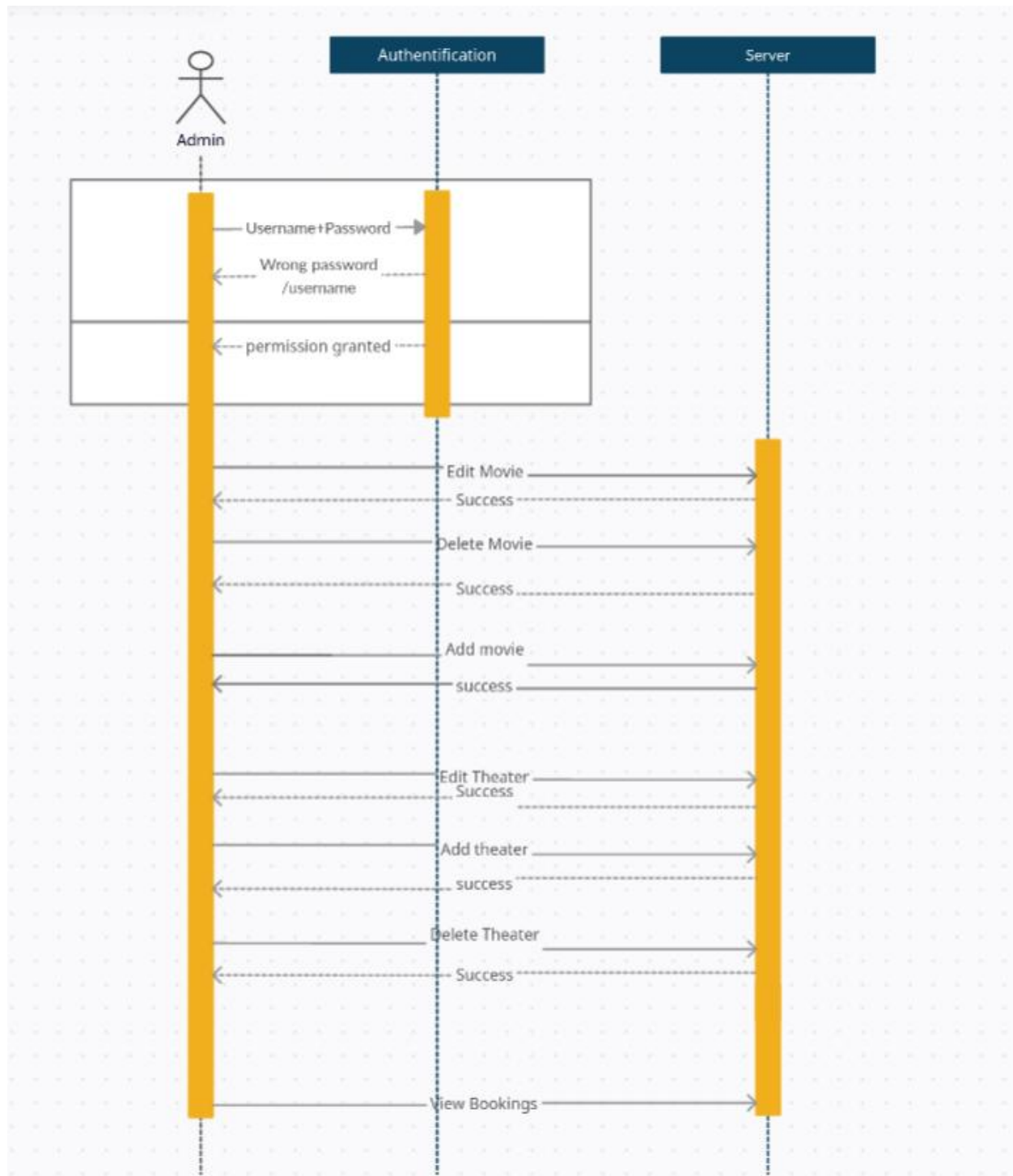
Class/UML Diagram

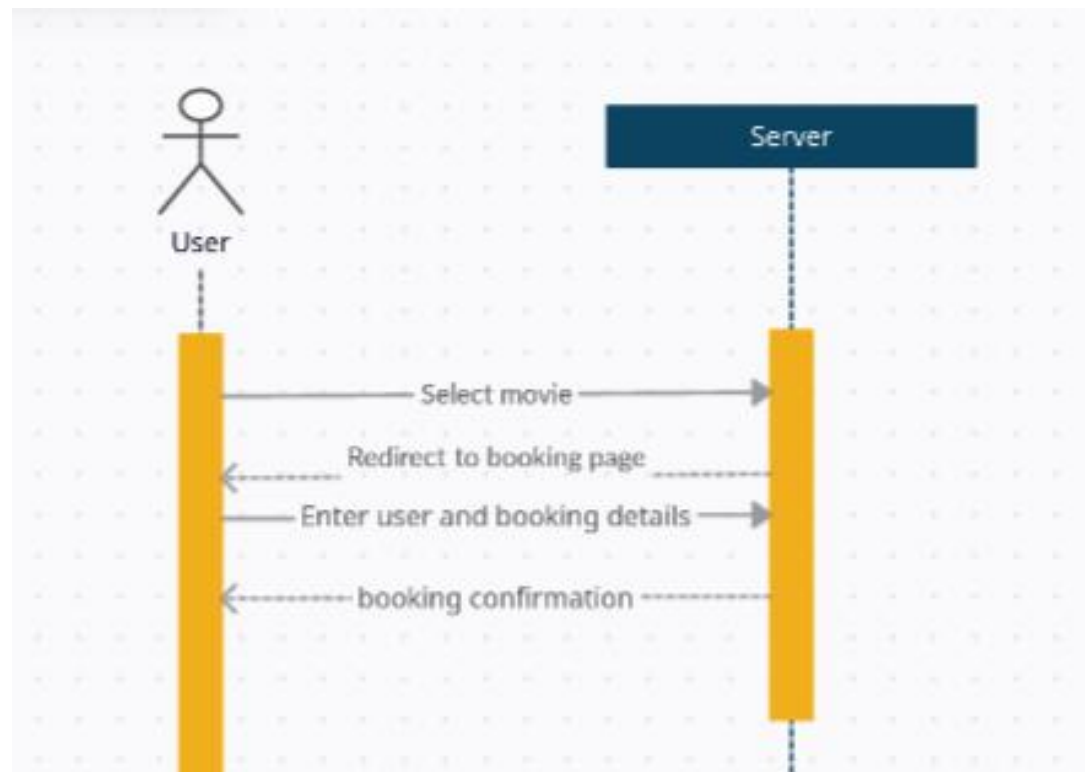


Use Case Diagram

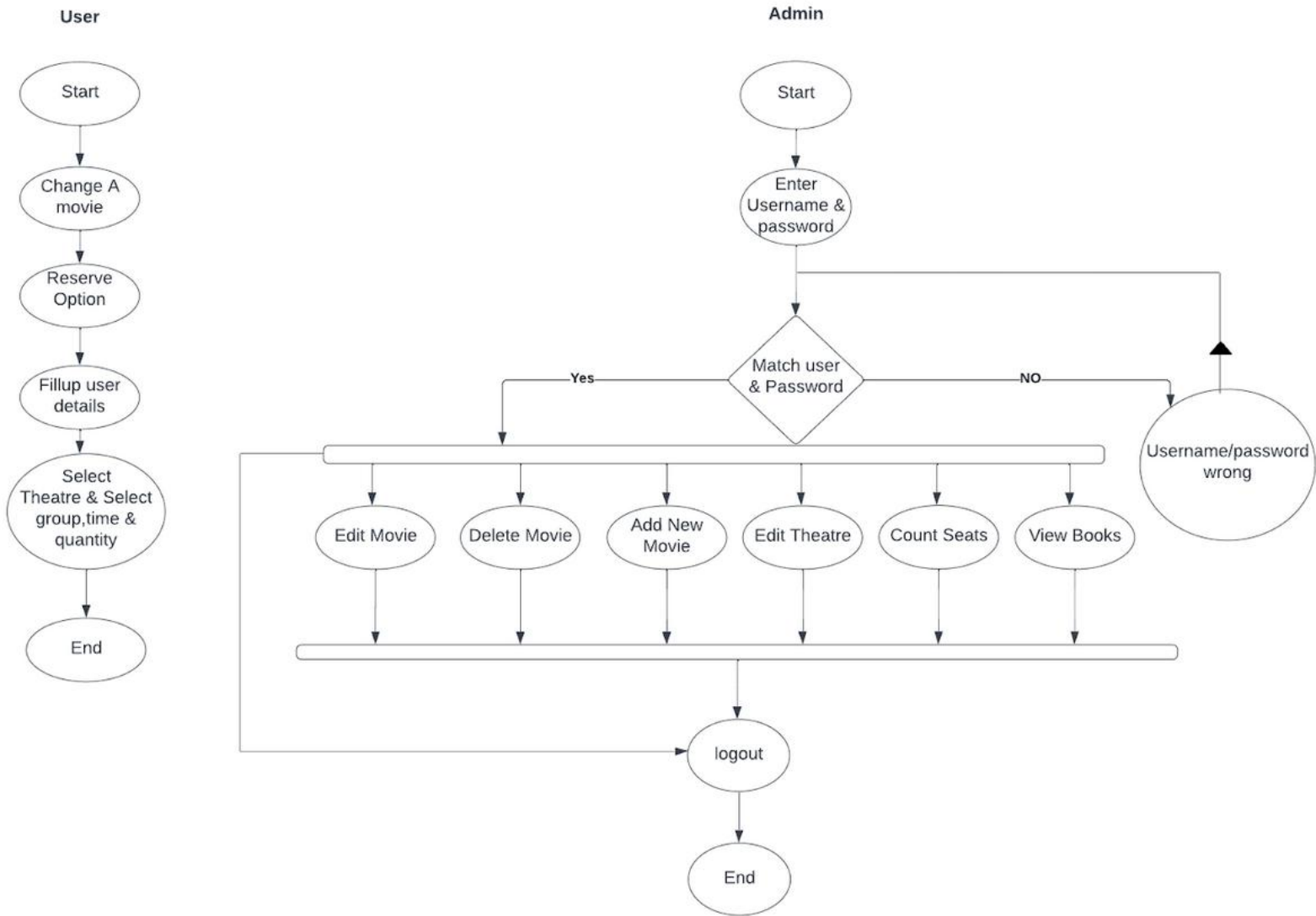


Sequence Diagrams

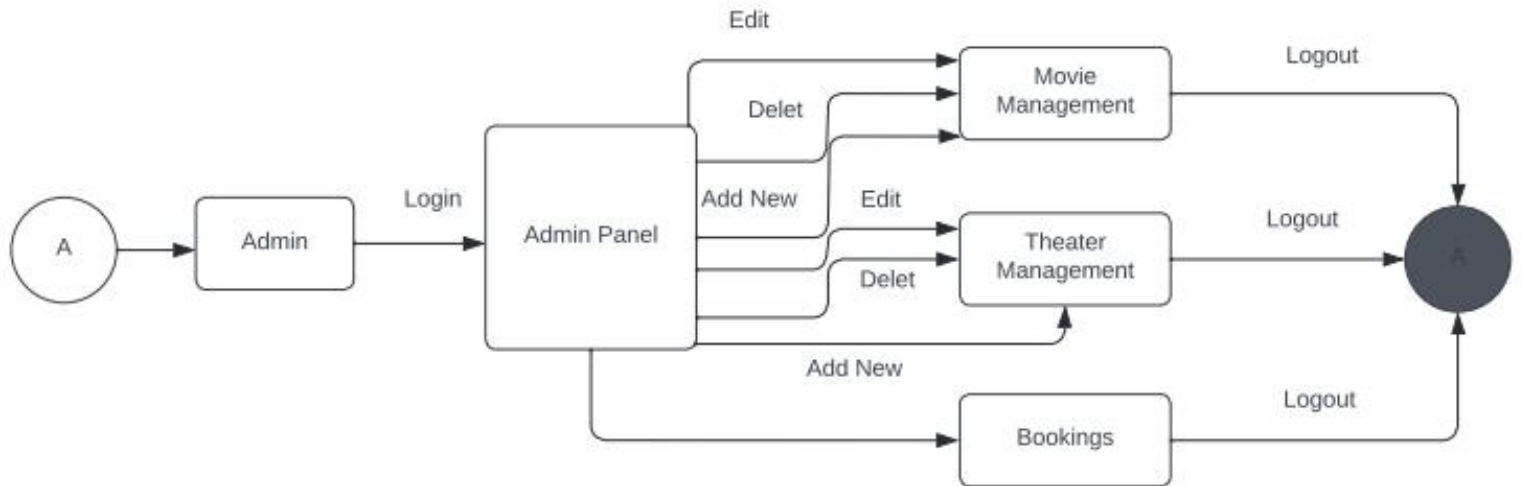
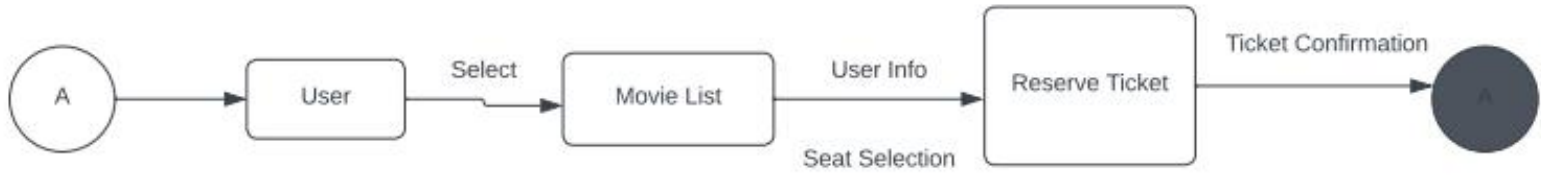




Activity Diagrams



State Diagrams



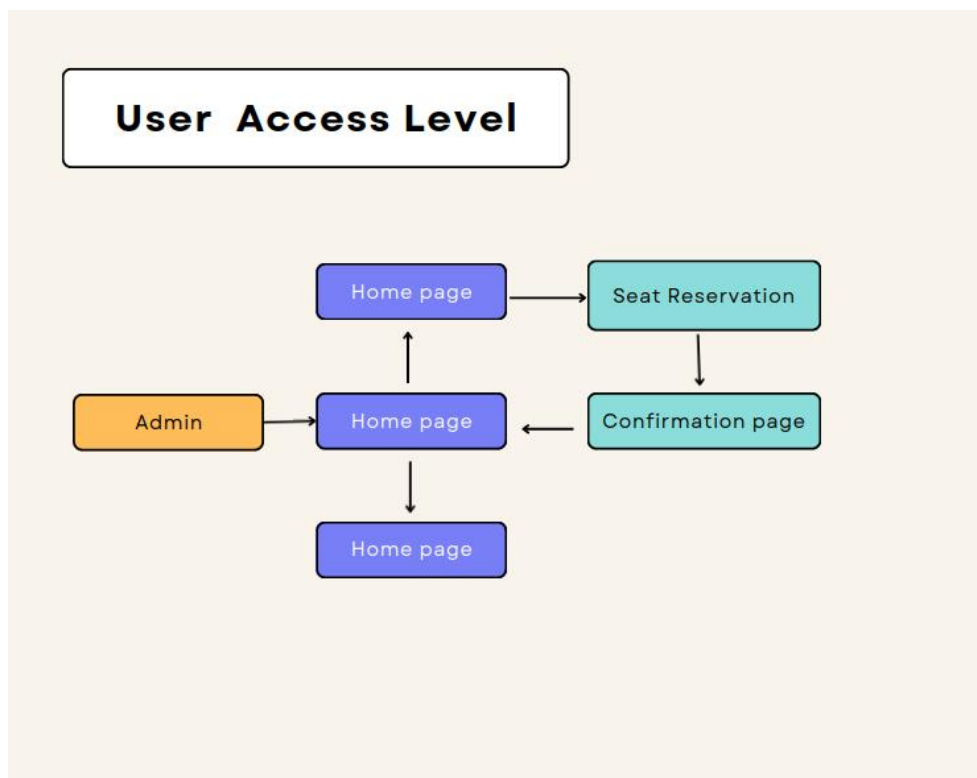
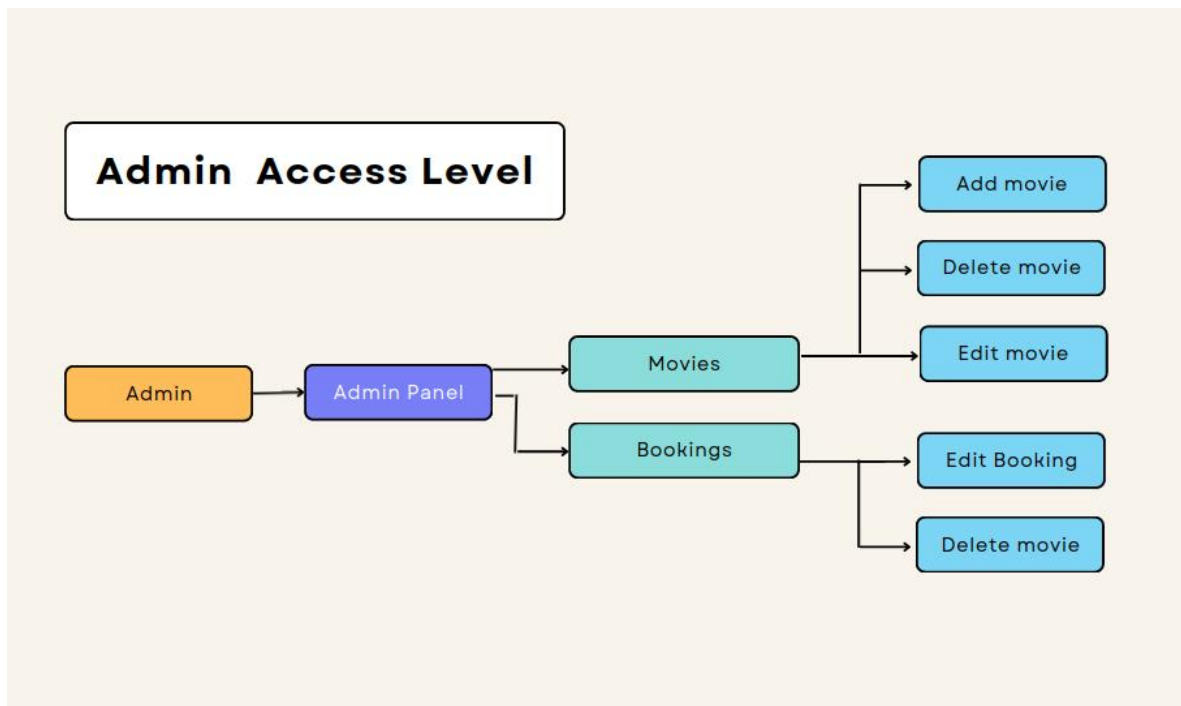
Database ER Diagram:

| cinema_db bookingtable | |
|------------------------|-------------------------------|
| 🔑 | bookingID : int(11) |
| # | movieID : int(11) |
| 📄 | bookingTheatre : varchar(100) |
| 📄 | bookingType : varchar(100) |
| 📄 | bookingDate : varchar(50) |
| 📄 | bookingTime : varchar(50) |
| 📄 | bookingFName : varchar(100) |
| 📄 | bookingLName : varchar(100) |
| 📄 | bookingPNumber : varchar(12) |
| 📄 | bookingEmail : varchar(255) |
| 📄 | amount : varchar(255) |
| 📄 | ORDERID : varchar(255) |
| 📅 | DATE-TIME : datetime |

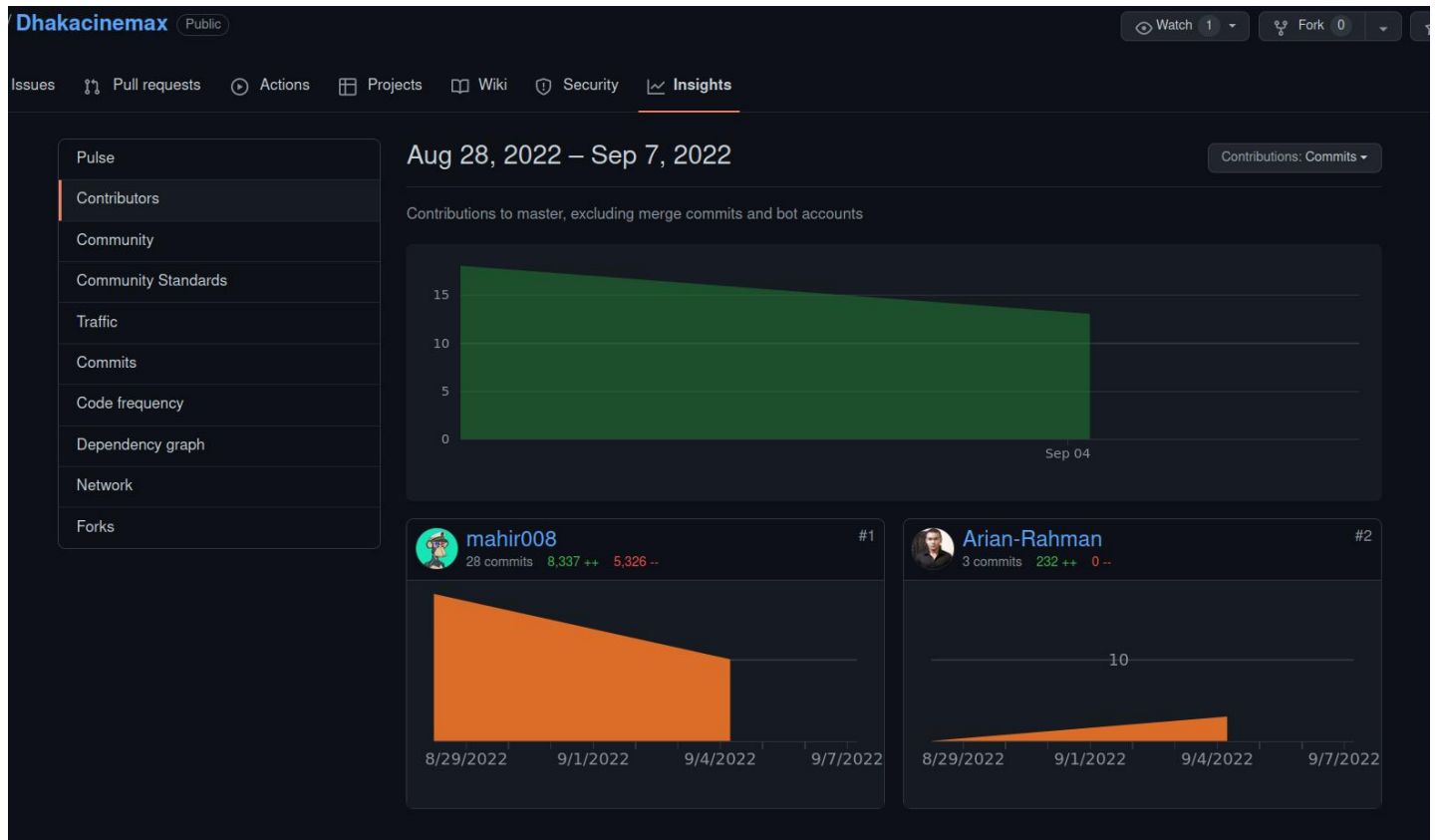
| cinema_db movietable | |
|----------------------|-----------------------------|
| 🔑 | movieID : int(11) |
| 📄 | movieImg : varchar(150) |
| 📄 | movieTitle : varchar(100) |
| 📄 | movieGenre : varchar(50) |
| # | movieDuration : int(11) |
| 📅 | movieRelDate : date |
| 📄 | movieDirector : varchar(50) |
| 📄 | movieActors : varchar(150) |
| # | mainhall : int(11) |
| # | viphall : int(11) |
| # | privatehall : int(11) |

| cinema_db users | |
|-----------------|------------------------|
| 🔑 | id : int(11) |
| 📄 | username : varchar(80) |
| 📄 | name : varchar(80) |
| 📄 | password : varchar(80) |

Access control Levels :



Contribution graph




Function-wise system description

Home page



Booking Page

RESERVE YOUR TICKET



Spiderman No way home

| | |
|--------------|---|
| GENRE | Action, Adventure, Sci-Fi |
| DURATION | 220 |
| RELEASE DATE | 2022-09-01 |
| DIRECTOR | Jon Watts |
| ACTORS | Tom Holland, Andrew Garfield, Tobey Maguire |

THEATRE

TYPE

DATE

TIME

First Name

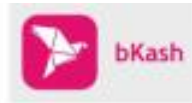
Last Name

Phone Number

email

Book a seat

Bkash Receipt Page

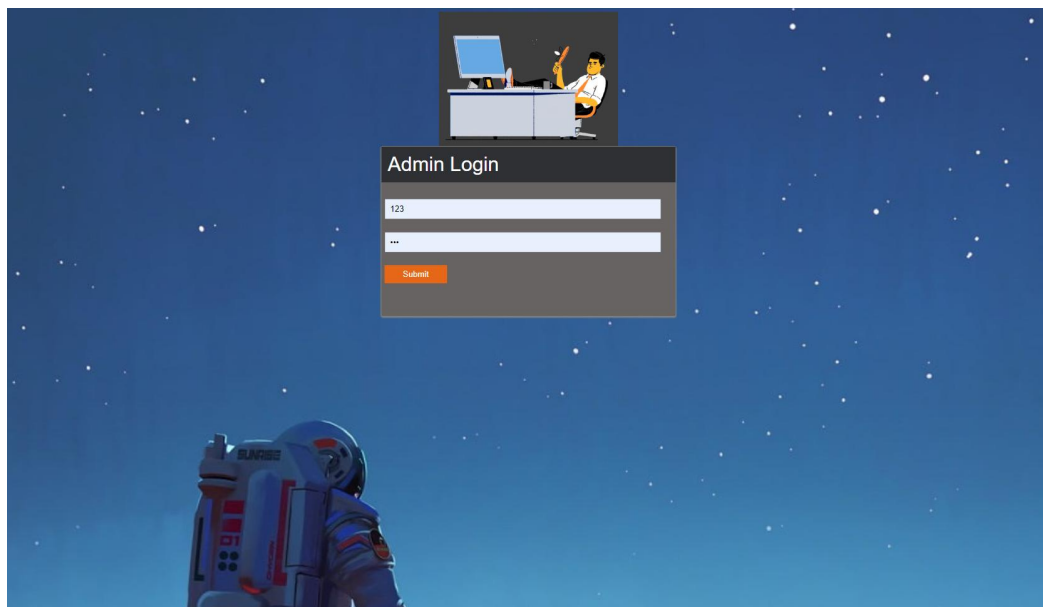


Proceed for Payment

| S.No | Label | Value |
|------|--------------|---------------|
| 1 | ORDER ID :-* | BKASH67059553 |
| 2 | Name | bart simpson |
| 3 | Website :-* | Shaka Chepter |
| 4 | THEATRE :-* | main-hall |
| 5 | TYPE :-* | 3d |
| 6 | totalAmount* | 200 |

* - Please pay the amount on Bkash and bring the order id to ticket counter upon entry Bkash no- 011

Admin Login



Admin Dashboard

Dhaka Cineplex Theatre Admin

Admin PanelLogout

Dashboard

Bookings

Movies

20Bookings

6Movies

Recent Bookings

| Booking ID | Movie ID | First Name | Last Name | Phone Number | Email | Date | Theatre | Type | Order ID |
|------------|----------|------------|-----------|--------------|----------------------------------|------|--------------|------|----------------|
| 71 | 6 | xyz | abc | 000000000 | 000@gmail.com | 14-3 | private-hall | imax | cash |
| 72 | 4 | ddd | rahman | 83483883 | fff@gg.com | 12-3 | vip-hall | 3d | ARVR60181765 |
| 73 | 1 | ariyan | rahman | 83483883 | barsimpson@idk.com | 13-3 | main-hall | 3d | ARVR91420892 |
| 74 | 1 | ahmed | ff | 83483883 | complexityonytbusiness@gmail.com | 12-3 | main-hall | 2d | ARVR35086362 |
| 75 | 4 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 13-3 | main-hall | 2d | ARVR41778690 |
| 76 | 3 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 13-3 | vip-hall | 3d | ARVR42839134 |
| 77 | 4 | ddd | ddd | 33434 | edhie@gmail.com | 13-3 | main-hall | 3d | ARVR24226367 |
| 78 | 4 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 12-3 | main-hall | 3d | ARVR37728986 |
| 79 | 4 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 12-3 | main-hall | 2d | ARVR66609135 |
| 80 | 2 | mahir | lasker | 1634774868 | edhie@gmail.com | 12-3 | main-hall | 2d | BKASH15307730 |
| 81 | 2 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 12-3 | main-hall | 3d | BKASH51212421 |
| 82 | 3 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 13-3 | main-hall | 3d | BKASH65494784 |
| 83 | 4 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 12-3 | main-hall | 3d | BKASH79457907 |
| 84 | 4 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 12-3 | main-hall | 3d | BKASH30452238 |
| 85 | 4 | mahir | lasker | 1634774868 | mahirul.lasker@northsouth.edu | 12-3 | main-hall | 3d | BKASH426810782 |
| 86 | 1 | jdjd | jdjd | 292929 | djdj@gmail.com | 12-3 | main-hall | 3d | BKASH99425217 |
| 87 | 1 | jdjdj | djdj | 3039 | dnedn@gmail.com | 12-3 | main-hall | 2d | BKASH18589395 |
| 88 | 2 | jjj | jjj | 77777 | huhuhu@gfff.com | 12-3 | main-hall | 3d | BKASH88840125 |
| 89 | 1 | rrrr | rrr | 390303 | frjij@gmail.com | 12-3 | main-hall | 3d | ARVR22677268 |
| 90 | 2 | okok | ij | 8888 | uhhu@gmail.com | 12-3 | vip-hall | 3d | BKASH133769541 |

Admin Movie Panel

Dhaka Cineplex Theatre Admin

Admin PanelLogout

Dashboard

Bookings

Movies

Movies

Title

Genre

Duration

mm/dd/yyyy

Director

Actors

Price

Main-Hall

Vip-Hall

Private Hall

Add Poster

Choose FileNo file chosen

Add Movie

Recent Movies

| MovieID | MovieTitle | Movie_Genre | Release_date | Director | More |
|---------|-----------------------|---------------------------|--------------|-------------------|--------|
| 1 | Spiderman No way home | Action, Adventure, Sci-Fi | 2022-09-01 | Jon Watts | delete |
| 2 | Hawa | Mystery/Thriller | 2018-10-18 | Assad Fouladkar | delete |
| 3 | Joker: Folie à Deux | Thriller | 2022-10-26 | Todd Phillips | delete |
| 4 | Interstellar | Sci-fi | 2022-07-13 | Christopher Nolan | delete |

Admin Booking details page

Dhaka Cineplex Theatre Admin

Admin PanelLogout

Dashboard

Bookings

Movies

Booking Details

| Booking ID | Movie ID | Name | Phone Number | Email | Date | Theatre & Type | Time | Order ID | Amount | Mo |
|------------|----------|---------------|--------------|----------------------------------|------|----------------------|-------|--------------|----------|-------------------------------------|
| 71 | 6 | xyz abc | 000000000 | 000@gmail.com | 14-3 | private-hall imax | 15-00 | cash | 5000.00 | <div>delete</div> <div>update</div> |
| 72 | 4 | ddd rahman | 83483883 | fff@gg.com | 12-3 | vip-hall 3d | 09-00 | ARVR60181765 | Not Paid | <div>delete</div> <div>update</div> |
| 73 | 1 | ariyan rahman | 83483883 | barsimpson@idk.com | 13-3 | main-hall 3d | 09-00 | ARVR91420892 | Not Paid | <div>delete</div> <div>update</div> |
| 74 | 1 | ahmed ff | 83483883 | complexityonytbusiness@gmail.com | 12-3 | main-hall 2d | 09-00 | ARVR35086362 | Not Paid | <div>delete</div> <div>update</div> |
| 75 | 4 | mahir lasker | 1634774868 | mahirul.lasker@northsouth.edu | 13-3 | main-hall 2d | 09-00 | ARVR41798690 | Not Paid | <div>delete</div> <div>update</div> |
| 76 | 3 | mahir lasker | 1634774868 | mahirul.lasker@northsouth.edu | 13-3 | vip-hall 3d | 12-00 | ARVR42839134 | Not Paid | <div>delete</div> <div>update</div> |

Contact Us page:

Address & Info: North South University.
Bashundhara, Dhaka-1229, Bangladesh

Phone Numbers +88 0255668200

E-mail: dhakacineplex@gmail.com



Dhaka Cinemax Theatre

Movie Schedule Page:

Dhaka Cinemax Theatre

[Home](#) [Movies](#) [Contact](#)

Schedule

Sept 10, 2022 Sept 11, 2022 Sept 12, 2022 Sept 13, 2022

| SHOW | SCHEDULE IN CINEMA |
|--|--|
| Hawa ⌚ 175m <input type="checkbox"/> IMAX SYNOPSIS Hawa is a Bangladeshi mystery-drama film written and directed by Mejbaur Rahman Sumon. The film is produced by Facecard Productions and Sun Music & Motion Pictures Limited. The film stars Chanchal Chowdhury, Nazifa Tushi, Sariful Razz, Sumon Anwar, Shahel Mondol, Nasir Uddin Khan, and Rizvi Rizu among others DETAILS | Private Hall ⌚ 09:00 AM 1:00 PM 06:00 PM VIP Hall ⌚ 09:00 AM 1:00 PM 6:00 PM Main Hall ⌚ 09:00 AM 1:00 AM 06:00 PM |
| Spiderman No Way Home ⌚ 160m <input type="checkbox"/> IMAX SYNOPSIS Spider-Man seeks the help of Doctor Strange to forget his exposed secret identity as Peter Parker. However, Strange's spell goes horribly wrong, leading to unwanted guests entering their universe. DETAILS | Private Hall ⌚ 09:00 AM 11:30 AM 06:00 PM VIP Hall ⌚ 09:00 AM 11:30 AM 06:00 PM Main Hall ⌚ 09:00 AM 11:30 AM 06:00 PM |
| Poran ⌚ 130m <input type="checkbox"/> IMAX SYNOPSIS Poran is a 2022 Bangladeshi romantic thriller film directed by Raihan Rafi and produced by Mo Tamzil U. Alam under his production banner Live Technologies. Based on true events, the film features Bidya Saha Min, Sariful Razz, and Yash Rohan in lead roles DETAILS | Private Hall ⌚ 09:00 AM 11:30 AM 06:00 PM VIP Hall ⌚ 09:00 AM 11:30 AM 06:00 PM Main Hall ⌚ 09:00 AM 11:30 AM 06:00 PM |

Database

The image shows two screenshots of the phpMyAdmin web interface. The top screenshot displays the 'Database: cinema_db' structure, listing four tables: bookingtable, feedbacktable, movietable, and users. The bottom screenshot shows the 'bookingtable' view, displaying a list of 25 rows with columns for booking details and user information.

Database Structure:

| Table | Action | Rows | Type | Collation | Size | Overhead |
|-----------------|---|-----------|---------------|---------------------------|------------------|------------|
| bookingtable | Browse Structure Search Insert Empty Drop | 16 | InnoDB | latin1_swedish_ci | 64.0 KiB | - |
| feedbacktable | Browse Structure Search Insert Empty Drop | 0 | InnoDB | latin1_swedish_ci | 32.0 KiB | - |
| movietable | Browse Structure Search Insert Empty Drop | 6 | InnoDB | latin1_swedish_ci | 32.0 KiB | - |
| users | Browse Structure Search Insert Empty Drop | 1 | InnoDB | latin1_swedish_ci | 16.0 KiB | - |
| 4 tables | Sum | 23 | InnoDB | utf8mb4_general_ci | 144.0 KiB | 0 B |

Table View (bookingtable):

| bookingID | movieID | bookingTheatre | bookingType | bookingDate | bookingTime | bookingFName | bookingLName | bookingPNumber | bookingE-mail | amount | ORDERID | DATE-TIME |
|-----------|---------|----------------|-------------|-------------|-------------|--------------|--------------|----------------|---------------------------------|----------|---------------|---------------------|
| 71 | 6 | private-hall | imax | 14-3 | 15-00 | xyz | abc | 000000000 | 000@gmail.com | 5000.00 | cash | 2020-12-14 12:20:31 |
| 72 | 4 | vip-hall | 3d | 12-3 | 09-00 | ddd | rahman | 83483883 | fff@gg.com | Not Paid | ARVR60181765 | 2022-09-01 23:06:51 |
| 73 | 1 | main-hall | 3d | 13-3 | 09-00 | ariyan | rahman | 83483883 | barsimpson@idk.com | Not Paid | ARVR91420892 | 2022-09-01 23:12:35 |
| 74 | 1 | main-hall | 2d | 12-3 | 09-00 | ahmed | fr | 83483883 | complexityonybusiness@gmail.com | Not Paid | ARVR35086362 | 2022-09-01 23:14:41 |
| 75 | 4 | main-hall | 2d | 13-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | ARVR41798890 | 2022-09-02 15:00:59 |
| 76 | 3 | vip-hall | 3d | 13-3 | 12-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | ARVR42839134 | 2022-09-02 15:03:40 |
| 77 | 4 | main-hall | 3d | 13-3 | 09-00 | ddd | ddd | 33434 | edhie@gmail.com | Not Paid | ARVR24226367 | 2022-09-02 15:06:28 |
| 78 | 4 | main-hall | 3d | 12-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | ARVR37728986 | 2022-09-02 15:08:08 |
| 79 | 4 | main-hall | 2d | 12-3 | 12-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | ARVR66609135 | 2022-09-02 15:08:27 |
| 80 | 2 | main-hall | 2d | 12-3 | 09-00 | mahir | laskier | 1634774868 | edhie@gmail.com | Not Paid | BKASH15307730 | 2022-09-02 15:09:18 |
| 81 | 2 | main-hall | 3d | 12-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | BKASH51212421 | 2022-09-02 15:12:29 |
| 82 | 3 | main-hall | 3d | 13-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | BKASH65494784 | 2022-09-02 15:17:09 |
| 83 | 4 | main-hall | 3d | 12-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | BKASH79457907 | 2022-09-02 15:18:18 |
| 84 | 4 | main-hall | 3d | 12-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | BKASH30452238 | 2022-09-02 15:21:15 |
| 85 | 4 | main-hall | 3d | 12-3 | 09-00 | mahir | laskier | 1634774868 | mahirul.laskier@northsouth.edu | Not Paid | BKASH26810782 | 2022-09-02 15:23:33 |
| 86 | 4 | private-hall | 3d | 12-3 | 09-00 | Arian | Rahman | 01739234204 | arianrahman431@gmail.com | Not Paid | BKASH18671504 | 2022-09-08 12:56:10 |

phpMyAdmin

Recent Favorites

- New
- cinema_db
 - New
 - bookingtable
 - feedbacktable
 - movietable
 - users
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- theater_db

Server: 127.0.0.1 Database: cinema_db Table: movietable

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 5 (6 total, Query took 0.0002 seconds.)

SELECT * FROM `movietable`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

| | movieID | movieimg | movieTitle | movieGenre | movieDuration | movieRefDate | movieDirector | movieActors | mainhall | viphall | privatehall |
|--------------------------|---------|----------|------------|------------|------------------------|-----------------------|---------------------------|----------------|-------------------|---|-------------|
| <input type="checkbox"/> | Edit | Copy | Delete | 1 | imgimovie-poster-1.jpg | Spiderman No way home | Action, Adventure, Sci-Fi | 220 2022-09-01 | Jon Watts | Tom Holland, Andrew Garfield, Tobey Mguire | 0 0 0 |
| <input type="checkbox"/> | Edit | Copy | Delete | 2 | imgimovie-poster-2.jpg | Hawa | Mystery/Thriller | 110 2018-10-18 | Assad Fouladkar | Ahmed Adam, Bayyumi Fouad, Saiah Abdullah , Entsar... | 0 0 0 |
| <input type="checkbox"/> | Edit | Copy | Delete | 3 | imgimovie-poster-3.jpg | Joker: Folie à Deux | Thriller | 110 2022-10-26 | Todd Phillips | Joaquin Phoenix, Lady Gaga | 0 0 0 |
| <input type="checkbox"/> | Edit | Copy | Delete | 4 | imgimovie-poster-4.jpg | Interstellar | Sci-fi | 105 2022-07-13 | Christopher Nolan | McConaughey, Anne Hathaway | 0 0 0 |
| <input type="checkbox"/> | Edit | Copy | Delete | 5 | imgimovie-poster-5.jpg | Avengers:Secret Wars | Action | 132 2022-12-15 | Daniel Crettn | Jonathan Majors , Samuel L. Jackson , Ben Mendelso... | 0 0 0 |
| <input type="checkbox"/> | Edit | Copy | Delete | 6 | imgimovie-poster-6.jpg | Poran | Crime, Mystery, Thriller | 107 2022-07-10 | Rahnan Rafi | Bidyia Sinha Saha Mim, Sariful Razz, Yash Rohan | 0 0 0 |

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

phpMyAdmin

Recent Favorites

- New
- cinema_db
 - New
 - bookingtable
 - feedbacktable
 - movietable
 - users
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- theater_db

Server: 127.0.0.1 Database: cinema_db Table: users

Browse Structure SQL Search Insert Export Import Privileges

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

SELECT * FROM `users`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

Extra options

| | id | username | name | password | | | |
|--------------------------|------|----------|--------|----------|-----|------|-----|
| <input type="checkbox"/> | Edit | Copy | Delete | 1 | 123 | john | 123 |

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table

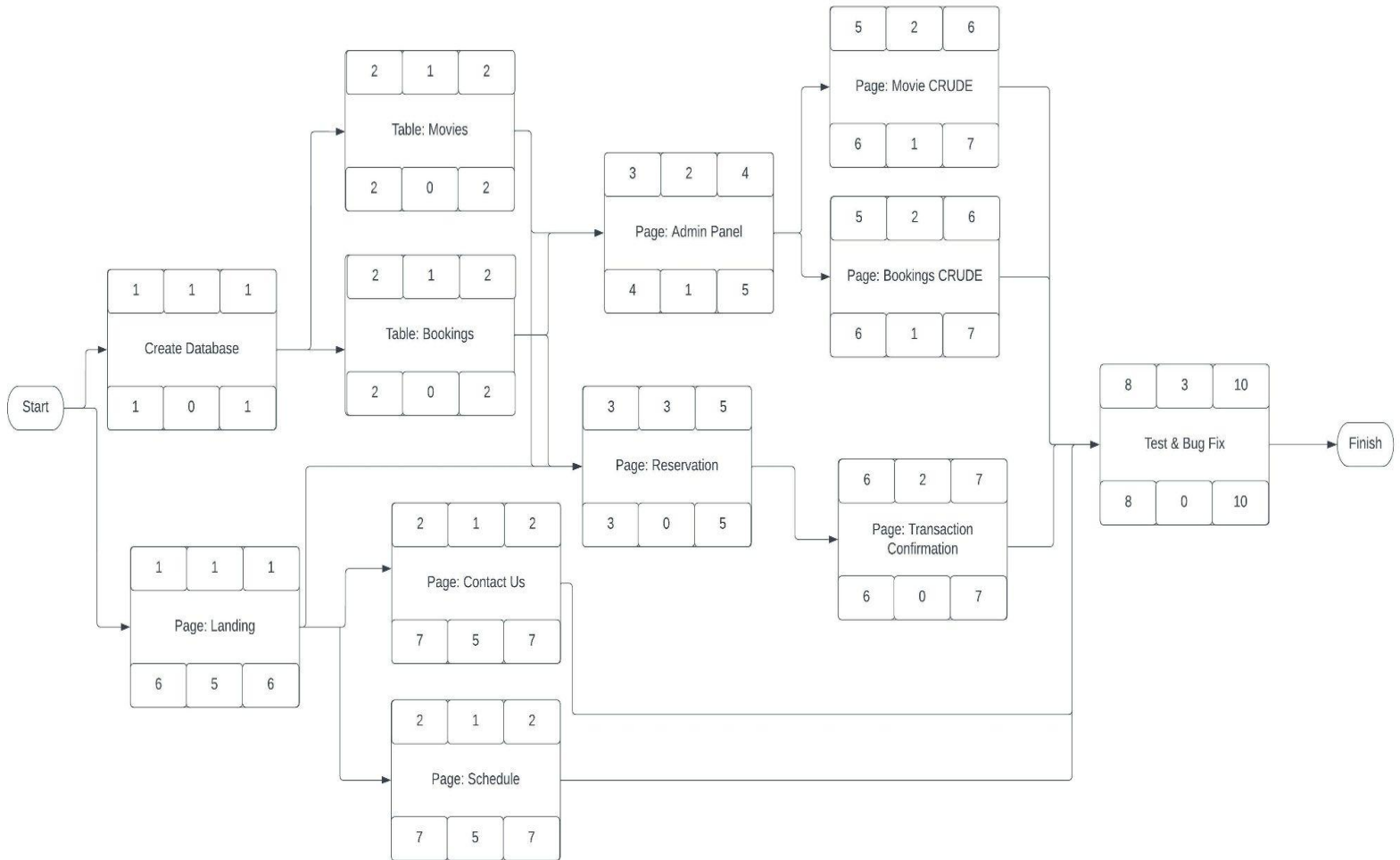
Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Project Scheduling with CPM



From The critical path analysis process, we can see the critical path should take roughly **10 days** to complete .

And the path is :

Database -> Table Movies & bookings -> Reservation ->
Transaction confirmation -> Bugfix

Any delay in this pipeline will delay the whole project.

Project Budgeting :

$$EI = 1 \times 6 + 1 \times 6 = 12$$

$$EO = 1 \times 7 = 7$$

$$EQ = 1 \times 6 = 6$$

$$ILF = 2 \times 15 = 30$$

$$UFP = 12 + 7 + 6 + 30 = 55$$

$$\sum Fi = 70$$

$$AFP = 55 + (0.65 + 0.01 \times 70) = 75$$

$$\text{Developer 1} = 45 \text{ FP/Month} = 30\text{k Month}$$

$$\text{Developer 2} = 40 \text{ FP/Month} = 30\text{k Month}$$

$$\text{Time needed} = 75/85 = 0.88 \text{ Months} \approx 1 \text{ Month}$$

$$\begin{aligned} \text{Total estimated cost} &= 1 \text{ Month} \times (30\text{k} + 30\text{k}) \text{ Taka} \\ &= 60\text{K taka} \end{aligned}$$

Limitations:

With the short amount of time, we received we could only implement the front-end UI index of the homepage of the website having 6 movies showing. In further down the line, we would like to implement a modern parallax UI design with arrow keys showing new upcoming movies. We would further would like to add an option to show user reviews out of 10 of the selected cinemas and also add trailer links of the website. We would also like to add snack options for people to purchase foods in advance. Also, user feedback which the admin can receive directly or a live chat feature to help the customers. Finally, we would like to implement a proper Bkash transaction API which would help customers pay fully and send them an email of their purchased ticket containing details of their booking id, phone, movie name and hall

Conclusion:

In our project we have kept track of all the information regarding movie times, users who are purchasing tickets, and the current situation regarding the availability of seats for a specific theater, film, class type, etc. This system will be useful for customers who wish to reserve cinema tickets in the simplest manner possible, as well as learn about the most current movie releases and learn a little bit about movies. Only the most crucial needs have been taken into account thus far; many additional features and information can be added to our project in order to produce even more user-friendly applications. These applications are currently being developed, and in the future, they may be improved and integrated with cutting-edge technology.