International University, HCMC National University

School of Computer Science and Engineering

# FINAL REPORT

# Cinema Booking System project

Submitted by GROUP DSO.

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Course name: Principles of Database Management

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# 1. Introduction

Millions of people all over the world enjoy watching movies. Seeing stories told through spectacular sound and pictures has become a popular pastime for most people of all ages. People who watch movies in theaters can fully immerse themselves in the story from beginning to end, empathize with the characters, and pick up on the majority of the details. However, the quality of the experience may be decreased as a result of hours spent in line trying to purchase tickets a lack of knowledge about customer movie preferences.

With the development in technology, there has been lots of advancement in the online booking system. The movie booking system is one such trending system nowadays. It allows users to browse the internet and purchase cinema tickets.

The Cinema booking Management System is an Internet application that can be used from anywhere on the Internet by anybody with an Internet connection. It is the method through which customers can buy cinema tickets directly over the Internet and pay using their bank accounts. Following that, the data will be entered into the cinema database for analysis and management by the administration.

# 2. Project Background

## 2.1. Project Background

The manual ticketing system, which is practically as old as it gets, involves pre-printing tickets with serial numbers and selling them at the box office or at specified shops in advance. Aside from the difficulty in tracking ticket sales, the requirement that customers wait in long queues to acquire a movie ticket reduces the number of moviegoers.

An automated ticketing system is the next generation of the booking system. Through this system, tickets are printed at the time of the purchase. The sales are automatically recorded by the computer, and the ticket inventories are updated automatically. The demand for a wide area network is a drawback of this system. Customers can only order tickets and acquire printed tickets from machines located within the cinemas, and they must still wait in long lines to purchase tickets.

The online ticket booking mechanism comes into play to solve these issues. This is an excellent example of Internet commerce, as it simplifies the process of purchasing or reserving online tickets and makes it more accessible and convenient. Tickets can be purchased from any place at any time with this service, which eliminates the long-line custom when purchasing movie tickets. Moreover, this system improves the method of keeping track of sales and stimulates ticket sales.

## 2.2. Project Objectives

The main goal of the system is to to develop a technique that not only allows customers to order movie tickets online at any time and from any location but also allows administrators to manage and update the information in the system. The system will handle the complete order once the data is entered into the database, therefore the admin will only need to view and maintain the data.

The Movie Ticket Booking System will be an application that displays the number of screens (theaters), seats, and movies that are currently playing on each screen. It also includes details on the runtime, the shows in which movies will be featured, and their ratings. The system also gives admins access to information about customers, tickets bought, and the ability to edit the system's data.

In this project, we only demonstrated the database management system as a basic Java application owing to a lack of time to construct a fully working application. The administrator can select, retrieve, change, and manage the data stored in the cinema database.

Following are some of the project's other major objectives:

- To provide 24/7 available customer assistance.
- To reduce the waiting time for customers in comparison to the direct ticket booking mechanism.
- To increase revenues by utilizing the Internet for marketing strategies..
- To provide a short preview of the movie on the website such as a genre and a plot summary.
- To manage and analyze the customer preferences through their selection and data.

# 3. Project Approach

The project approach defines the project management methodology, tools, and governance for the project. In other words, it shows how the project is planned, implemented, and controlled.

## 3.1. Features

Following are the features of the Cinema Booking Management System.

- The system provides information on the number of screens (or theaters) in the cinema, as well as the number of seats available in each screen.
- The system offers the customers comprehensive information on the running movie with its schedule and ratings, so that he or she can easily purchase and reserve a ticket for one of their favorite films.
- Customers can watch the contents of any movie show at any time and purchase as many movie tickets as they need. The subtotal and grand total are calculated automatically by the application. When the customer decides to finally book the ticket, the order information, including the customer's name, address, and billing information, is securely stored in the database, and payment is processed.
- Admins can utilize the Cinema Booking Management System to add, delete, and alter data as movie descriptions and timetables, which will update the relevant application that is accessible to customers. Admins can change the content based on the data in the database, as well as monitor the system's statistics.
- By having access to critical data in a centralized and systematic view, cinema managers can improve profitability and better manage their businesses. They can also improve customer satisfaction by operating their businesses more efficiently with automated reservation and ticketing processes.

## 3.2. System’s Workflow

- The customer first creates an account and then logs in to the application before using the booking function.
- Customers should be asked to choose the number of tickets they want to book.

- Our ticket booking service should be able to provide a list of theater names.
- When a user picks a theater, the system should display a list of movies that have just been released and currently shown at that cinema, along with complete information on the film, namely its ratings, the showtimes, genres, and countries.
- After the user selects a movie, the user should be able to select a show. The system should be able to show the user the cinema hall's seating layout. The user should be able to choose from a variety of chairs based on their preferences and the availability of the seats.
- The user should be able to distinguish available and booked seats.
- After selecting seats, the user selects a payment method and completes the booking.
- Users should be able to get complete information about their reserved tickets, which they can utilize at the cinema hall's entrance.
- When the customer decides to finally book the ticket, the order information, including the customer's name, address, and billing information, is securely stored in the database, and payment is processed.
- Admins should be able to add, delete, and alter data such as movie descriptions and timetables, as well as change the homescreen content based on the data in the database.

## 3.3. Development Tools

This project creates a database with MySQL and SQLServer, then connects to it with Java to establish a simple framework for the administrator to manage and manipulate the data.

## 3.4. Project timeline

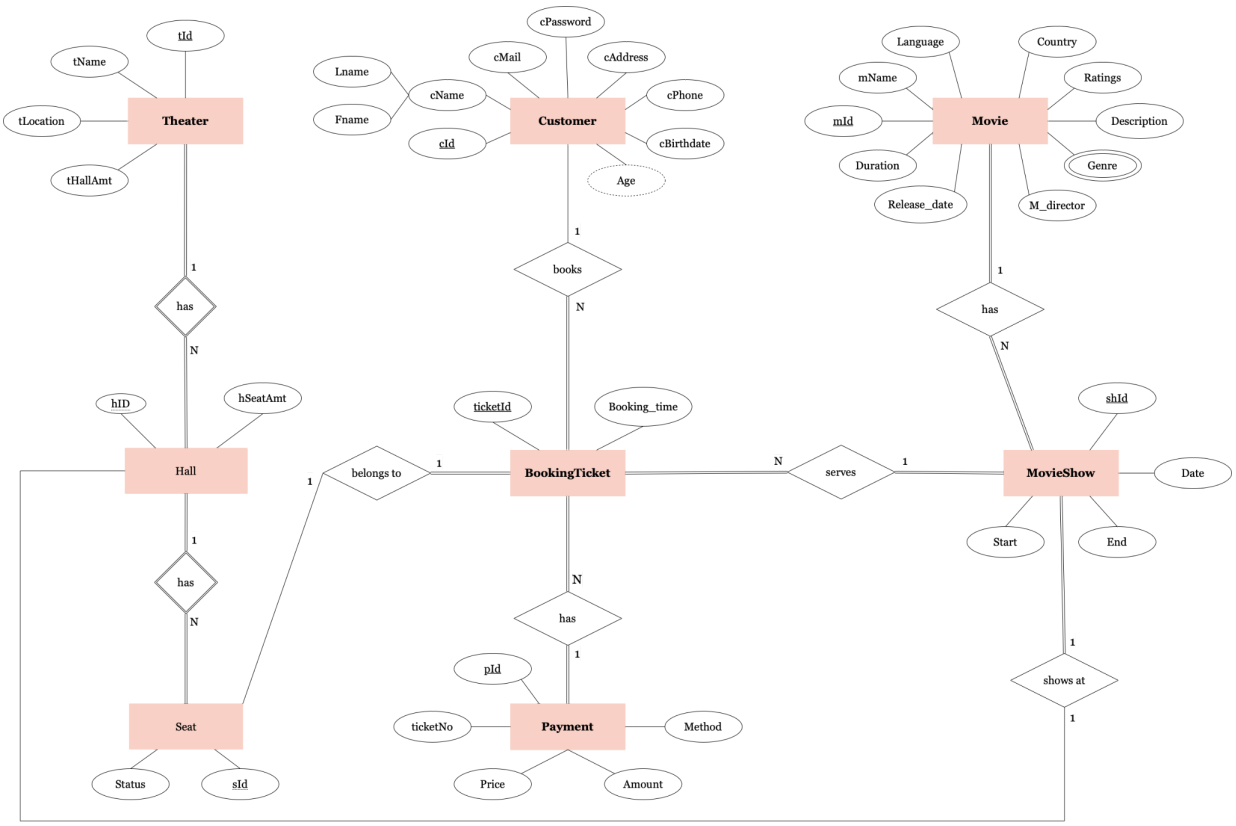
| Week no. | Date | Task name | Member |
|---|---|---|---|
| 1 | 14/02/2022 - 20/02/2022 | Choose the project topic | All |
| 2 | 21/02/2022 - | - Project background | All |

| | | | |
|---|---|---|---|
| | 27/02/2022 | - Topic specification description (features) | |
| 3 | 28/02/2022 - 06/03/2022 | - Project timeline<br>- Proposal | All |
| 4 | 07/03/2022 - 13/03/2022 | - Specification description of the entities and attributes | - Thinh, Uyen, Khanh |
| 5 | 14/03/2022 - 20/03/2022 | - Design Entity-Relationship Diagram (ERD) | - Duy, Phuong |
| 6 | 21/03/2022 - 27/03/2022 | - Convert ERD into Relational Model<br>- Explain the ERD | - Phuong, Uyen<br>- Thinh, Duy, Khanh |
| 7 | 28/03/2022 - 03/04/2022 | - Set up SQL database (in MySQL)<br>- Edit the ERD and Relational Model | - Phuong |
| 8 | **18/04/2022 - 24/04/2022** | **Midterm Report** | All |
| 9 | 25/04/2022 - 01/05/2022 | - Update SQL database<br>- Design the better E/R Model<br>- Import data<br>- Connect the database to Java | - Phuong<br>- Uyen, Duy, Khanh<br>- Thinh |
| 10 | **02/05/2022 - 08/05/2022** | - Create a basic Java system to retrieve data<br>- Presentation slides<br>**- Final Report**<br>**- Presentation** | - Thinh<br>- Khanh<br>- All |

# 4. Entity - Relationship Diagram (ERD)

## 4.1. Cardinality

- One Customer can book one or more Tickets, while one Ticket can belong to only one Customer.
- One Movie can be shown at many MovieShow, while one MovieShow can only show one Movie at a time.
- One Theater can have many Halls, while one Hall can belong to one Theater.
- One Hall can have many Seats, while one Seat can belong to one Hall.
- One Seat can be related to one Ticket at a time.
- One Ticket can have one Payment, while one Payment can be the bill for many Tickets that a Customer books.
- One MovieShow can take place in one Hall, and one Hall can have one MovieShow at a time.
- One MovieShow can serve many Tickets, while one Ticket can belong to one MovieShow.




H4.1. Entity - Relationship Diagram (ERD)

## 4.2. Database Design - Explanation for the attributes

### 4.2.1. Customer

Customers are those who purchase movie tickets. They are the primary entity of the booking system because they are the people that utilize it to book movie tickets. This entity stores information on all users beginning with the creation of a new account and the purchase of movie tickets in that theater. It provides real-time information on the customers as well as the ability to update and modify the information as needed. Customers can get access to their information by logging in to their accounts. Following are the attributes of this entity.

**Table 4.1. Customer**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | cId (PK) | Customer ID number | varchar | 11 |
| 2 | cName | Customer full name | varchar | 50 |

| | | | | |
|---|---|---|---|---|
| 3 | Fname | Customer first name | varchar | 20 |
| 4 | Lname | Customer last name | varchar | 20 |
| 5 | cMail | Customers mail address | varchar | 30 |
| 6 | cPassword | Customers sign in password | varchar | 20 |
| 7 | cAddress | Customer living address | varchar | 30 |
| 8 | cPhone | Customer phone number | varchar | 11 |
| 9 | cBirthdate | Customer date of birth | Date | |
| 10 | CAge | Customer age (derived from date of birth) | int | 2 |

### 4.2.2. Movie

The Movie entity keeps track of all the movies that are on within the cinema system at the current time of purchase. The information in this entity not only assists customers in selecting the appropriate movie to watch based on its contents, but it also provides the administrator with a method for updating the movie to be played and its advertising after analyzing customer preferences.

**Table 4.2. Movie**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | mId (PK) | Movie ID | varchar | 11 |
| 2 | mName | Movie name | varchar | 50 |
| 3 | Release_date | Movie release date | date | |
| 4 | Duration | Movie duration time (minute) | int | 10 |
| 5 | Language | Movie in Different Languages | varchar | 50 |
| 6 | Country | Movie Country | varchar | 30 |
| 7 | Ratings | Movie Ratings (stars) | decimal | 8,1 |
| 8 | Description | Movie Description | varchar | 500 |
| 9 | Genre | Movie genre | varchar | 50 |

| | | | | |
|---|---|---|---|---|
| 10 | M_Director | Director of the movie | varchar | 50 |

### 4.2.3. Theater

Theater is the list of the system's cinemas where movies are shown. Each theater has a unique id, name and location.

**Table 4.3. Theater**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | tId (PK) | Theater ID | varchar | 11 |
| 2 | tName | Theater name | varchar | 30 |
| 3 | tLocation | Theater location | varchar | 50 |
| 4 | tHallAmt | The amount of halls in a theater | int | 10 |

### 4.2.4. Hall

Hall is the list of halls according to theater. There are two types of hall: big and small. The types of hall are distinguished by the first letter of the hall id: big hall's id starts with G, whereas small hall's id starts with D.

**Table 4.4. Hall**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | hID (PK) | Hall ID | varchar | 11 |
| 2 | hSeatAmt | The amount of seats in a hall | int | 10 |

### 4.2.5. Seat

This entity maintains the list of seats in each hall of the theaters. Each seat has its own status, whether available or unavailable at the time customers book their ticket. A seat id is unique in a specific hall of a theater.

**Table 4.5. Seat**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | Status | Seat Availability<br>0: Available<br>1: Unavailable (Booked) | tinyint (boolean) | 2 |
| 2 | sId (PK) | Seat ID | varchar | 11 |

### 4.2.6. MovieShow

MovieShow entity contains the details of each show in a cinema.

**Table 4.6. MovieShow**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | shId (PK) | Show ID | varchar | 11 |
| 2 | Date | Show date | date | |
| 3 | Start | Time when the show start | time | |
| 4 | End | Time when the show end | time | |

### 4.2.7. BookingTicket

BookingTicket contains all of the details for each ticket that customers have purchased. Besides ticketId and Booking_time, the ticket also has the information about the movie name, hall, seat, and show time. Customers can use this information to check in to the cinema at the time of the movie screening.

**Table 4.7. BookingTicket**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | ticketId (PK) | Ticket ID | varchar | 11 |
| 2 | Booking_time | Time when the ticket is created | timestamp | |

### 4.2.8. Payment

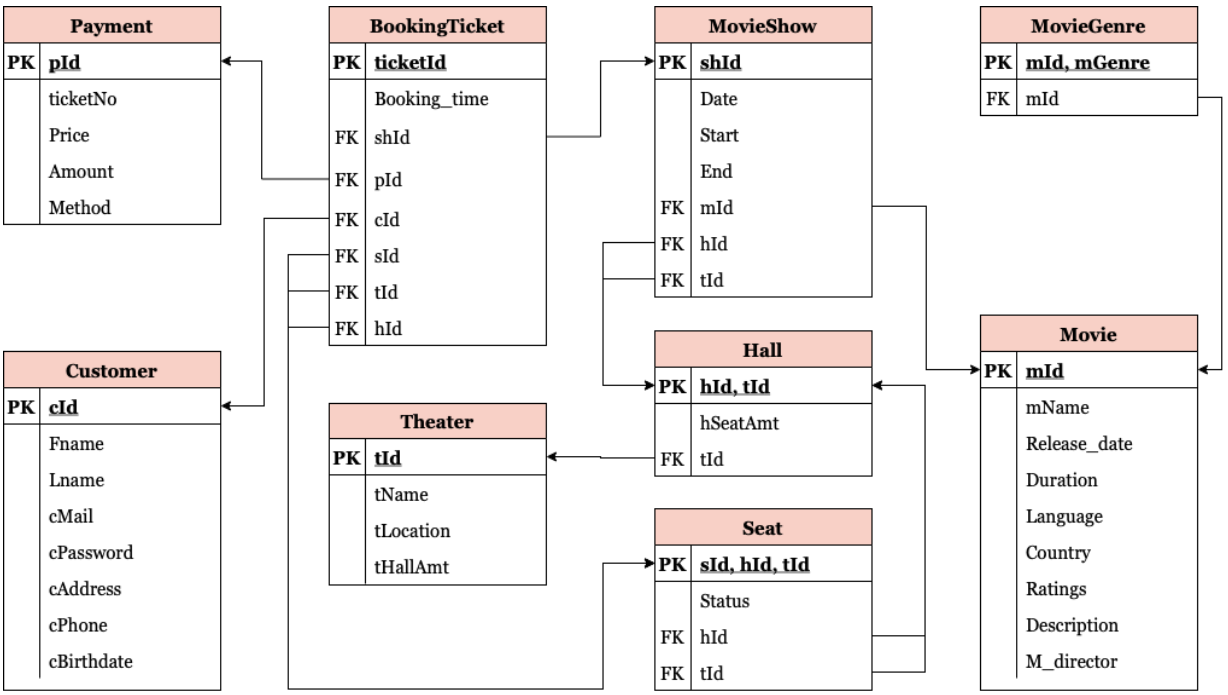
Payment entity contains the information for processing the ticket purchase.

**Table 4.8. Payment**

| Index | Field | Description | Type | Size |
|---|---|---|---|---|
| 1 | pId (PK) | Payment ID | varchar | 11 |
| 2 | ticketNo | Total number of tickets in each bill | int | 2 |
| 3 | Price | Unit price of the ticket | decimal | 9, 2 |
| 4 | Amount | Total amount of cash the customer have to pay | decimal | 9, 2 |
| 5 | Method | Payment method | varchar | 10 |

# 5. Translation from ERD to Relational Model

1. **Customer** (cId, Fname, Lname, cMail, cPassword, cAddress, cPhone, cBirthdate)
2. **Movie** (mId, mName, Release_date, Duration, Language, Country, Ratings, Description, M_director)
3. **Theater** (tId, tName, tLocation, tHallAmt)
4. **Hall** (hId, tId, hSeatAmt)
5. **Seat** (sId, hId, tId, Status)
6. **MovieShow** (shId, Date, Start, End, mId, hId, tId)
7. **BookingTicket** (ticketId, Booking_time, cId, shId**,** sId, tId, hId, pId)
8. **Payment** (pId, ticketNo, Price, Amount, Method)
9. **MovieGenre** (mId, mGenre)




H5.1. Relational Model

## Relation 5.1. Customer

| cId | Fname | Lname | cMail | cPassword | cAddress | cPhone | cBirthdate |
|---|---|---|---|---|---|---|---|
| 028466 | Ton | Vu Anh Thu | anhthuton12@gmail.com | thu2912 | 333/12 Le Van Sy | 0691357288 | 2000-12-12 |
| 037546 | Nguyen | Ba Cuong | cuong24@gmail.com | thisiscuong | 24 Wayne Street | 0937123637 | 2001-06-13 |
| 0762896 | Tran | Ba Van | vantran@gmail.com | van123 | 16/9 Nguyen Dinh Chieu | 0705060030 | 2005-01-12 |
| 109102 | Do | Thi Ngoc Ngan | ngocngando266@gmail.com | cobengocngech | 14 Vo Nguyen Giap- Hoai Huong | 0902666885 | 2002-06-26 |
| 167890 | Dang | Van Ngu | ngutheclawn@gmail.com | dangvanngu | 188 Tran Van Quang-Tan Binh | 0905974992 | 1992-03-20 |
| 201006 | Nguyen | Phi Khanh | nguyenphikhanh02@gmail.com | khanhtheclawn | 333/16/2 Le Van Sy | 0868546202 | 2002-04-19 |
| 217136 | Tran | Bao Duy | duytranbao@student.hcmiu.edu | tranbaoduy | 12/3 Dien Bien Phu - Q1 | 034589112 | 2002-08-20 |
| 234123 | Le | Ngoc Uyen Phuong | uyenphuongle224@gmail.com | upsort224 | 55G Tran Van Quang | 0775900187 | 2002-04-12 |
| 267098 | Vo | Le Thuan Thao | thaovole41@gmail.com | thaolevo123 | 23 Le Anh Xuan - Hoai Hai | 0372984445 | 2004-04-01 |
| 378904 | Dang | Chi Thinh | thinhdangchi@gmail.com | thinhkhung | 21 Di An Binh Duong | 0935357102 | 2002-08-07 |

## Relation 5.2. Movie

| mId | mName | Release_date | Duration | Language | Country | Ratings | Description | M_Director |
|---|---|---|---|---|---|---|---|---|
| 001 | DOCTOR STRANGE IN THE MULTIVERSE OF MADNESS | 2022-05-06 | 126 | English | United States | 7.5 | Dr. Stephe… | Sam Raimi |
| 002 | EXTREMELY EASY JOB | 2022-04-29 | 113 | Vietnamese | Vietnam | 5.1 | | Võ Thanh Hòa |
| 003 | FAST & FEEL LOVE | 2022-04-06 | 131 | Thai | Thailand | 7.4 | When a w… | Nawapol Thamrongrattanarit |
| 004 | JUJUTSU KAISEN 0: THE MOVIE | 2022-03-18 | 105 | Japanese | Japan | 7.9 | Yuta Okko… | Seong-Hu Park |
| 005 | FANTASTIC BEASTS: THE SECRETS OF DUMBLEDORE | 2022-04-15 | 143 | English | United Kingdom | 6.5 | Professor… | David Yates |
| 006 | PEE NAK 3 | 2022-04-15 | 110 | Thai | Thailand | 6.1 | The Karm… | Phontharis Chotkijsadarsopon |
| 007 | MIDNIGHT | 2022-04-15 | 103 | Korean | Korea | 6.5 | Kyung-mi,… | Kwon Oh-seung |
| 008 | THE BAD GUYS | 2022-04-22 | 100 | English | United States | 6.9 | Several re… | Pierre Perifel |

## Relation 5.3. Theater

| tId | tName | tLocation | tHallAmt |
|---|---|---|---|
| 036135 | SuperStar | 188 Nguyen Thi Minh Khai Q1 | 4 |
| 086775 | New Galaxy | 5 Nguyen Cong Hoan P7 Phu Nhuan | 6 |
| 097387 | Tran Quang Dieu | 14 Tran Quang Dieu P11 Tan Binh | 6 |
| 156982 | The Old Theater | 9 Le Van Sy P1 Tan Binh | 4 |
| 167345 | Banh Van Tran | 23/4 Mac Dinh Chi p1 Tan Phu | 4 |

## Relation 5.4. Hall

| hID | hSeatAmt | tId |
|---|---|---|
| D11 | 50 | 036135 |
| D11 | 40 | 086775 |
| D11 | 50 | 097387 |
| D11 | 50 | 156982 |
| D11 | 50 | 167345 |
| D12 | 40 | 036135 |
| D12 | 40 | 097387 |
| G11 | 60 | 036135 |
| G11 | 70 | 086775 |
| G11 | 60 | 097387 |
| G11 | 70 | 156982 |
| G11 | 70 | 167345 |
| G12 | 60 | 086775 |
| G12 | 60 | 097387 |
| G13 | 70 | 097387 |
| G14 | 60 | 097387 |

## Relation 5.5. Seat

| sId | Status | hId | tID |
|---|---|---|---|
| A10 | 0 | G11 | 167345 |
| A6 | 0 | D12 | 036135 |
| B2 | 0 | D11 | 097387 |
| B5 | 0 | D11 | 097387 |
| B5 | 1 | G11 | 097387 |
| B9 | 1 | D11 | 097387 |
| C5 | 1 | D12 | 097387 |
| C5 | 0 | G12 | 086775 |
| C6 | 0 | D12 | 097387 |
| C8 | 0 | G12 | 097387 |
| C9 | 1 | G12 | 097387 |
| D3 | 0 | D11 | 167345 |
| D4 | 0 | G11 | 036135 |
| D7 | 0 | G11 | 036135 |
| E4 | 1 | G11 | 156982 |
| E7 | 1 | G11 | 156982 |
| F3 | 0 | G11 | 097387 |
| F6 | 0 | G11 | 086775 |
| G1 | 0 | G13 | 097387 |
| G4 | 0 | G11 | 167345 |

## Relation 5.6. MovieShow

| shId | Date | Start | End | mId | hId | tID |
|---|---|---|---|---|---|---|
| MS001 | 2022-05-11 | 15:00:00 | 17:06:00 | 001 | G11 | 097387 |
| MS002 | 2022-05-11 | 20:00:00 | 22:06:00 | 001 | G12 | 097387 |
| MS003 | 2022-05-12 | 16:00:00 | 17:53:00 | 002 | G13 | 097387 |
| MS004 | 2022-05-12 | 22:00:00 | 23:53:00 | 002 | D11 | 097387 |
| MS005 | 2022-05-14 | 14:00:00 | 16:11:00 | 003 | G14 | 097387 |
| MS006 | 2022-05-20 | 16:00:00 | 17:45:00 | 004 | D12 | 097387 |
| MS007 | 2022-05-21 | 12:00:00 | 14:23:00 | 005 | G12 | 086775 |
| MS008 | 2022-06-01 | 14:00:00 | 16:23:00 | 005 | G11 | 167345 |
| MS009 | 2022-06-02 | 20:00:00 | 21:50:00 | 006 | D11 | 156982 |
| MS010 | 2022-06-05 | 17:00:00 | 18:43:00 | 007 | G11 | 036135 |
| MS011 | 2022-06-07 | 18:00:00 | 19:40:00 | 008 | D12 | 036135 |

## Relation 5.7. BookingTicket

| ticketId | Booking_time | cId | shId | sId | tId | hID | pId |
|---|---|---|---|---|---|---|---|
| A0905C8 | 2022-05-09 11:28:00 | 0762896 | MS002 | C8 | 097387 | G12 | PM02 |
| A0905C9 | 2022-05-09 11:28:00 | 0762896 | MS002 | C9 | 097387 | G12 | PM02 |
| A1005B5 | 2022-05-10 12:00:00 | 037546 | MS001 | B5 | 097387 | G11 | PM01 |
| A1305B9 | 2022-05-13 07:00:00 | 267098 | MS005 | B9 | 097387 | D11 | PM04 |
| A1905C5 | 2022-05-19 08:23:00 | 217136 | MS006 | C5 | 097387 | D12 | PM05 |
| B2005C5 | 2022-05-20 09:30:00 | 201006 | MS007 | C5 | 086775 | G12 | PM06 |
| D1005E7 | 2022-05-10 08:55:00 | 167890 | MS003 | E7 | 156982 | G11 | PM03 |
| D1105E4 | 2022-05-11 08:55:00 | 167890 | MS003 | E4 | 156982 | G11 | PM03 |

## Relation 5.8. Payment

| pId | ticketNo | Price | Amount | Method |
|---|---|---|---|---|
| PM01 | 1 | 50000.00 | 50000.00 | MasterCard |
| PM02 | 2 | 50000.00 | 100000.00 | Visa |
| PM03 | 2 | 50000.00 | 100000.00 | PayPal |
| PM04 | 1 | 50000.00 | 50000.00 | MasterCard |
| PM05 | 1 | 50000.00 | 50000.00 | Visa |
| PM06 | 3 | 50000.00 | 150000.00 | Paypal |

# 6. System demo in Java

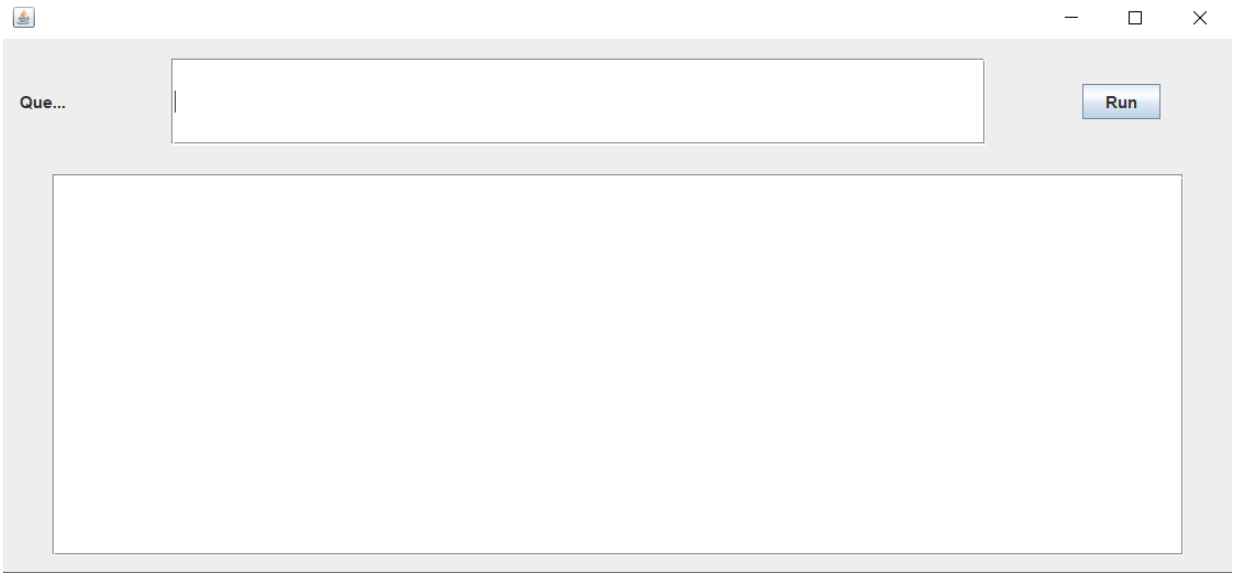
## 6.1. List of Classes and Responsibilities

| No. | Class Name | Responsibility |
|---|---|---|
| 1 | `frmMain` | Connect the program to the MSSQL Server |
| 2 | `Cinema` | Call `frmMain` class |

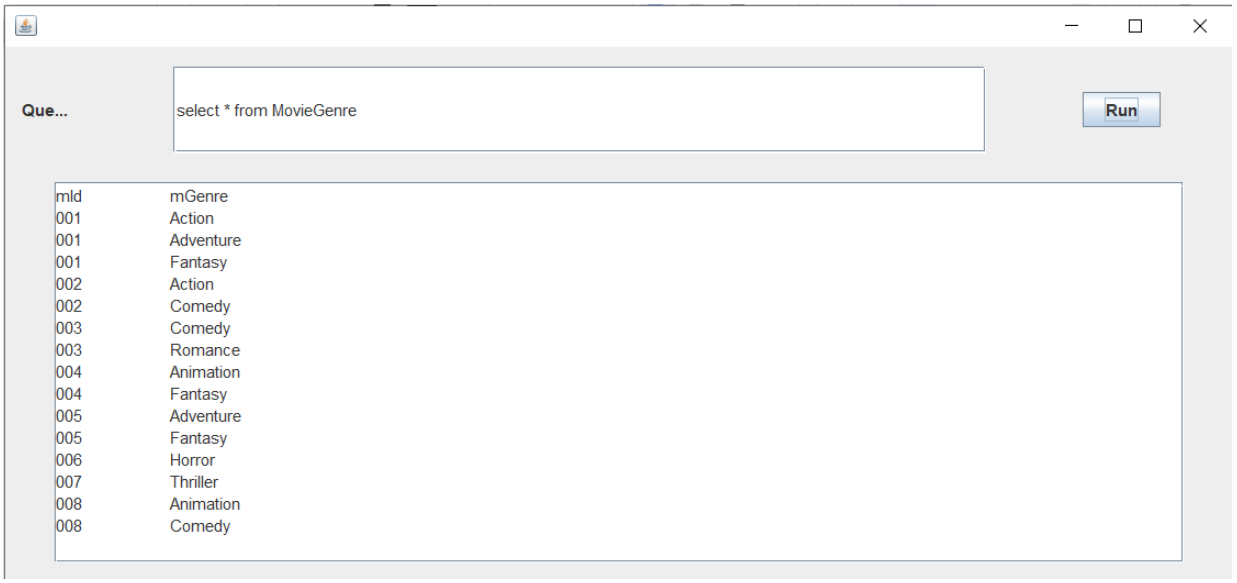

## 6.2. Class Diagram

## 6.3. System screenshots

- Blank Screen:




- Example of query running:




# 7. Conclusion

The project has built a database for the Cinema Booking Management System as well as a basic Java application that allows the administrator to select, retrieve, edit, and manage the data stored in the cinema database. Each relation in the database meets normalization forms, particularly at least the third normal form (3NF). We've also implemented nearly all of the topics covered in this course, including Entity, Relationship, Keys, SQL, Entity-Relation Diagram (ERD), Relational Model translation, and Normalization.

## 7.1. Limitations

- Originally, the Cinema booking management system should allow customers to book tickets online, and the administrator to manage the database. However, due to a lack of time, the database management system can only be presented as a basic Java application.
- When customers reserve a ticket, the system still cannot check whether a specific seat is available.
- The system was unable to verify whether the number of tickets recorded in BookingTicket relation is relevant to the total ticket number inserted in the Payment relation at the beginning of the booking flow.

## 7.2. Future plans

- The system would be a more attractive and intuitive application, capable of performing the original primary function.
- The system would be able to handle a large number of concurrent users. At any given time, there will be many booking requests for the same seat. This should be handled gracefully and fairly by the service.
- A system's main feature is ticket booking, which entails financial transactions. Therefore, the system must be safe.
    - User registration using mobile OTP (one-time-password)
    - Notifications for any information and changes

# 8. Reference list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