

Topic

Cinema Management System

Group Members

Aneel	2012150
Noor Ahmed	2112282
Chand Mevaram	2012153
Vishal	1912252

Submitted to

Sir Adeel Ahmed

Sir Faraz Afsar

SZABIST Karachi Campus

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1. Problem

In today's world, the demand for cinema is much higher than the past. Therefore, it is necessary to have an automated system to manage huge amount of work that cannot be achieved manually. This system is being developed to handle the business needs of online movie ticket reservation for customers, maintaining their records and data, maintaining records of employees and their access to manage the system.

2. Scope

Our Cinema Management System is a GUI based online booking application for customers. The project is designed for customers to view movies, book tickets by using different payment methods, view their purchases and receive reports of their purchase. For employees, they can manage movies, set showtimes, and view customer details.

3. Methodology

The project is built using C# .NET Framework with a GUI, also it is integrated with SQL SERVER for database. It is built using the proper algorithms along with constraints to eliminate all potential errors. There are 2 login-based portals, one for customers and the other for employees/admin. Customers can sign up/sign in, they are able to book their seat, after reservation of seat the system will generate a receipt for customers. Employees can add movies to the database, edit them or delete them, they are able to assign cinema showtimes to movies and check customer details.

4. Main Features

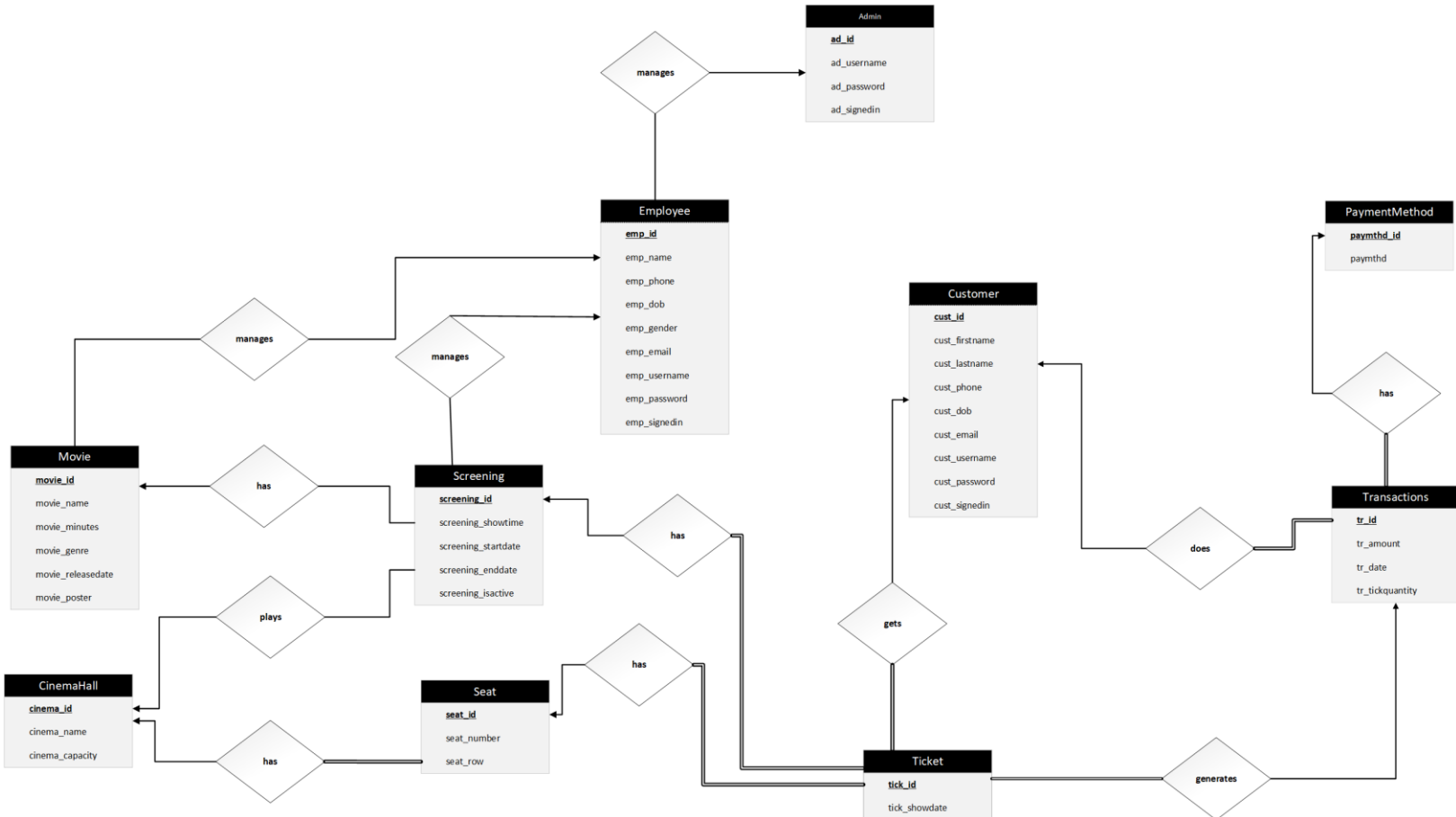
- Customer sign up/login
- Movie CRUD
- Show Time CRUD
- Add Employees
- Employee login
- Book Tickets
- View & Save Transactions

5. Additional Features

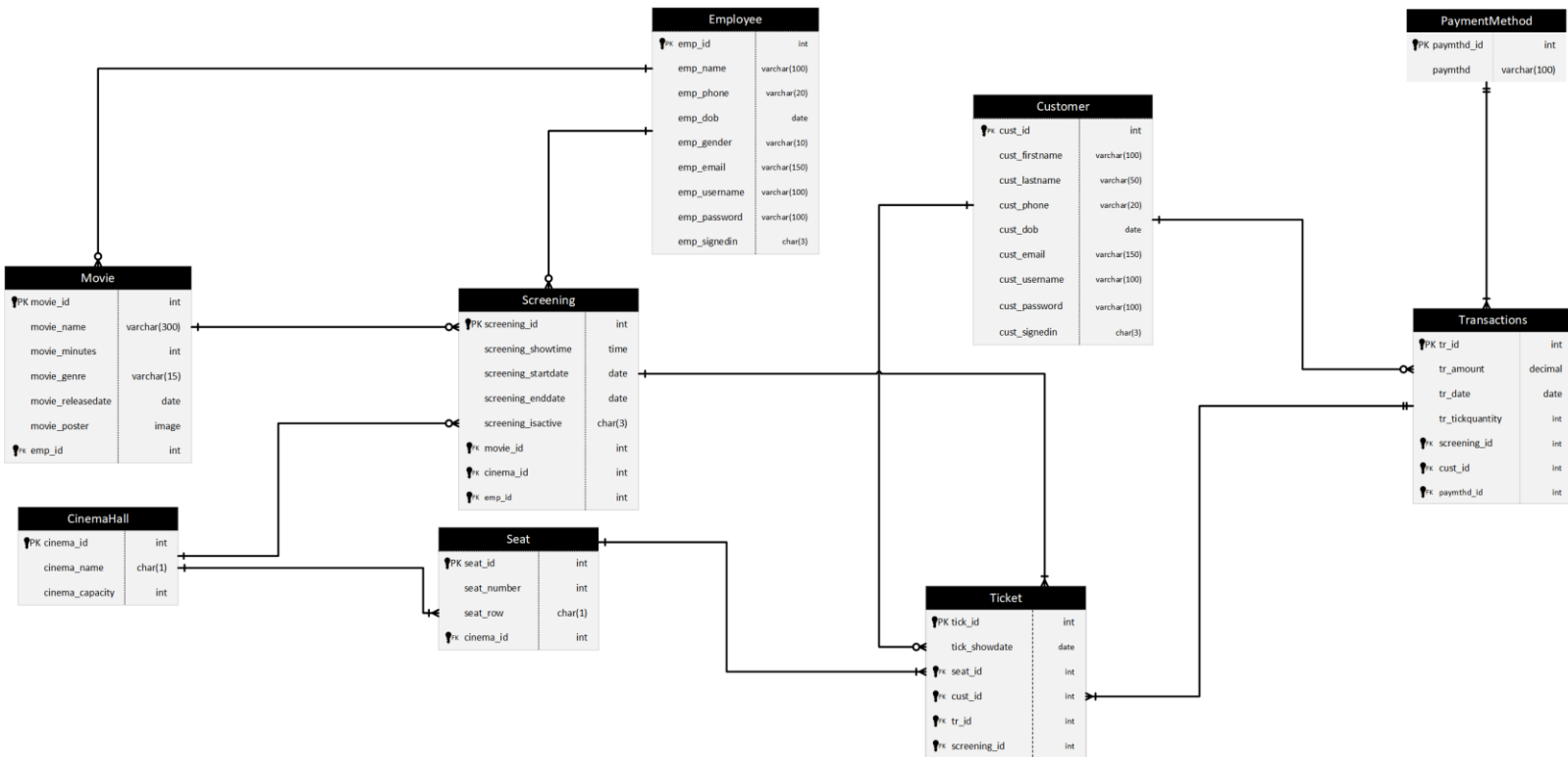
- Change Password
- QR Code Generation

6. Entity Relationship Diagram (ERD)

Conceptual Model:

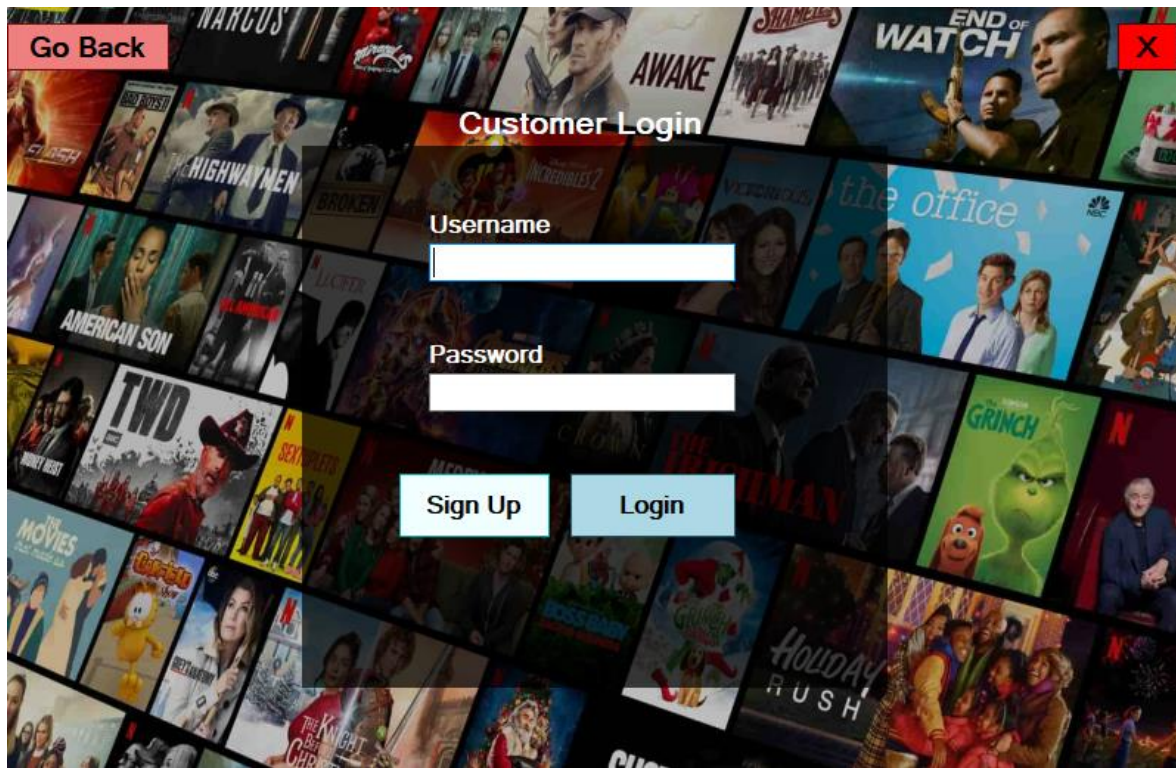


Relational Model:

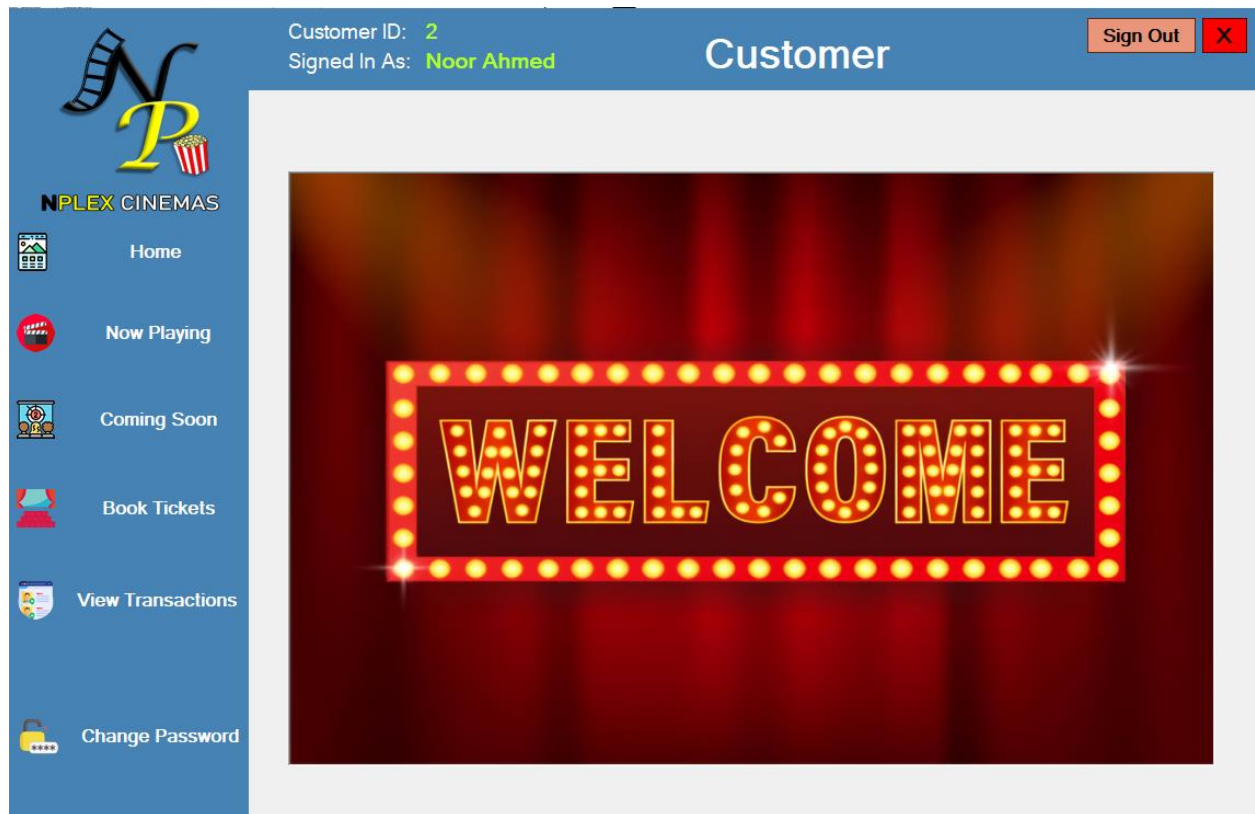


GUI


Customer Login:



Home Page:



Book Tickets Page:



NPLEX CINEMAS

- Home
- Now Playing
- Coming Soon
- Book Tickets
- View Transactions
- Change Password

Customer ID: 2
Signed In As: **Noor Ahmed**

Customer

Sign Out X

Movies
Top Gun Maverick

Show Timing
09:30:00

Cinema Hall
C

Show Date
2022-06-21

Change

Cinema Hall C

Screen

A	1	2	3	4	5
B	6	7	8	9	10

One Ticket Price = 800


Reset

Selected Seat

Book Seat

Check Out

View Transactions Page:



NPLEX CINEMAS

- Home
- Now Playing
- Coming Soon
- Book Tickets
- View Transactions
- Change Password

Customer ID: 2
Signed In As: **Noor Ahmed**

Customer

Sign Out X

Transactions

ID	Name	TransactionID	TransactionAmount	Date	TicketQuantity	ScreeningN
2	Noor Ahmed	1016	2400	6/20/2022	3	3

Save

Refresh

[Go Back](#)

[X](#)

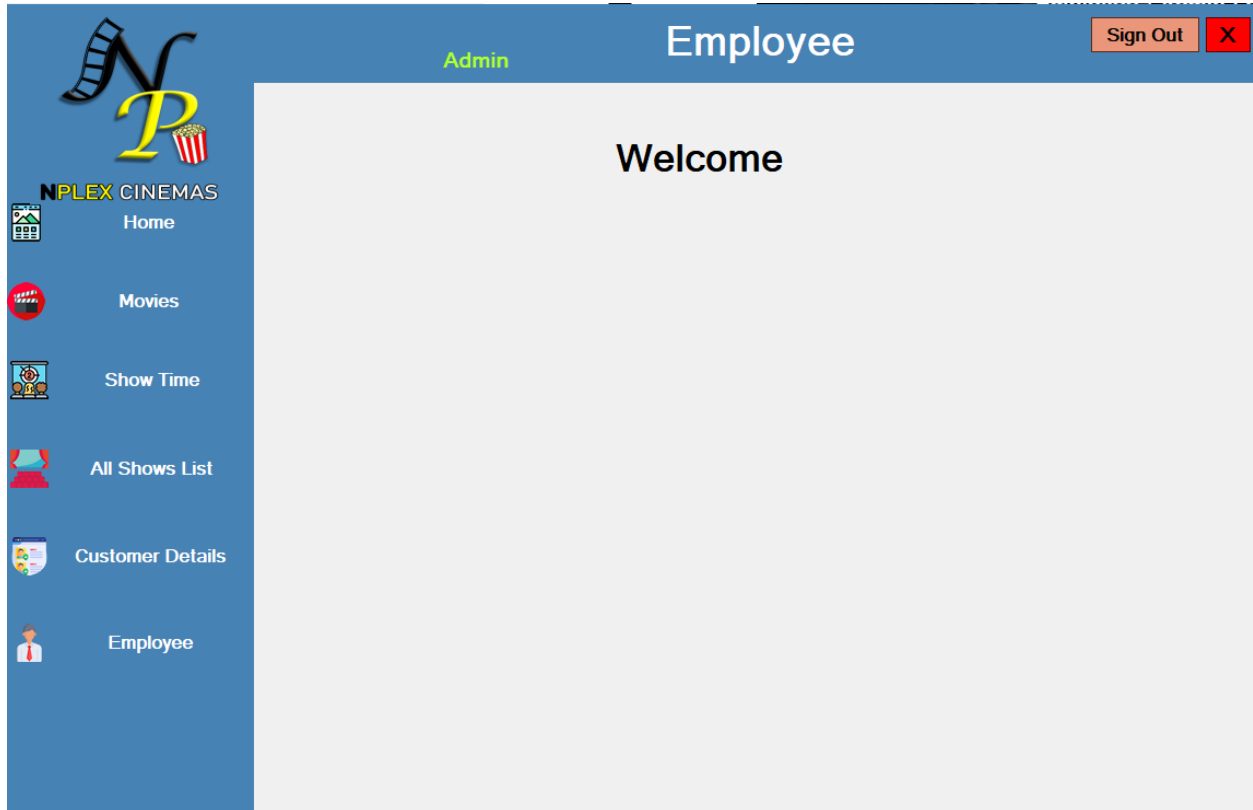
Employee / Admin Login

Username


Password

[Login](#)

Employee / Admin Home Page:



Movie CRUD Page:



NPLEX CINEMAS

- Home
- Movies
- Show Time
- All Shows List
- Customer Details
- Employee

Admin

Employee

Sign Out X

Add Movie Edit Movie Delete Movie

Movies

Add Movie

Movie Name

Release Date

Length (In Minutes)


Genre

Poster

Browse

Add

Show Time CRUD Page:



NPlex CINEMAS

- Home
- Movies
- Show Time
- All Shows List
- Customer Details
- Employee

AdminEmployeeSign Out X

Showtime

Add Show TimeEdit Show TimeDelete Show Time

Add Show Time

Show Timing

Show Start Date

Show End Date


Cinema Hall

Movie

MovieID	MovieName
1	Doctor Strange 2
3	Thor 4
2	Top Gun Maverick

Add

Employee CRUD Page (For Admin)



NPLEX CINEMAS

- Home
- Movies
- Show Time
- All Shows List
- Customer Details
- Employee

Admin

Employee

Sign Out X

Add EmployeeEdit EmployeeDelete Employee

Employee

Add Employee

Name

Date Of Birth

1970-01-01

Username

(Alphanumeric)

Min Length: 4

Phone Number

(03331234567)

Password

Min Length: 5

Gender

Email

Register