UE22CS351A: Database Management Systems

<u>**Project Deliverables**</u>

<u>Theatre Management System</u>

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Abstract

This project involves the development of a comprehensive movie booking system. The system allows managers to add movies to be displayed, including details such as movie titles, showtimes, and available seats. Customers can browse the list of available movies, select their preferred showtime, and book tickets.

Payment processing is integrated, allowing customers to securely enter payment details and complete transactions. The booking management module ensures that all booking details, such as booking date and ID, are accurately recorded. Additionally, the system manages customer information, including phone number, email, name, and customer ID, ensuring secure and efficient handling of data. This integrated approach streamlines the movie booking process, providing a seamless experience for both managers and customers.

User Requirement specification

1. **Show Handling**:

   o Manager is responsible for handling the show like adding the new movies making sure that every customer has available seats

   o Every screen should play only one movie given the interval of time no two movies should be scheduled on the same time and screen

2. **Payment Processing**:

   o The system should handle payment details, including the amount and method.

   o If payment details are not provided, the system should request these details again.

3. **Booking Management**:

   o The system should manage booking details, including the booking date and ID.
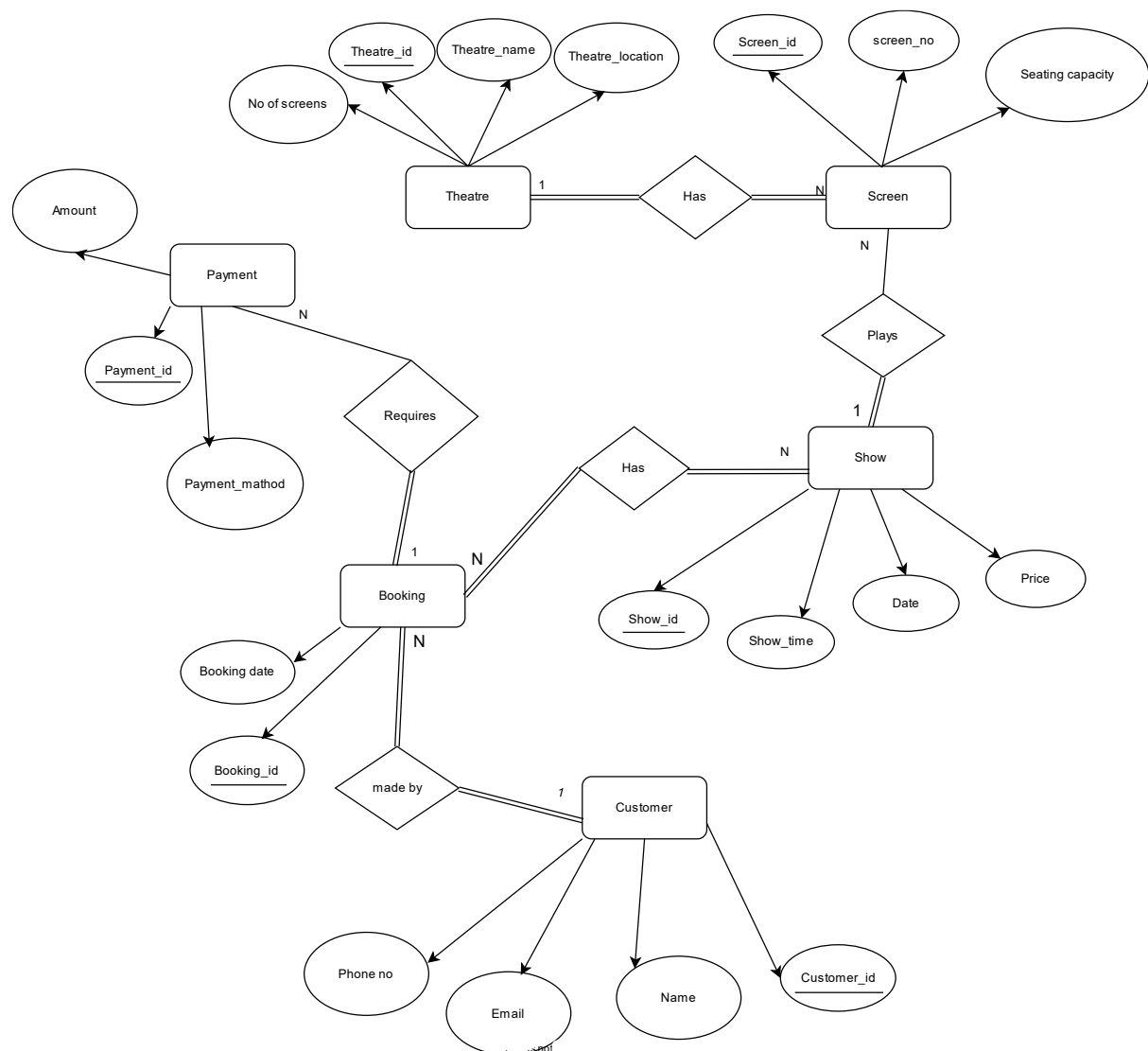
4. **Customer Information Handling**:

   o The system should handle customer details such as phone number, email, name, and customer ID.

Tools/Programming languages used :

HTML and CSS for The web GUI

Javascript,PHP and python frameworks for handling of the connection with the MySQL database

Entity Relationship Diagram:

Relational Schema:

Theatre

Theatre_id	Theatre_name	Theatre_location	Number_of_screens

Screen

Screen_id	Theatre_id	Screen_number	Seating_capacity

Movie

Movie_id	Title	Duration	Genre	Language	Rating

Show

Show_id	Screen_id	Movie_id	Show_time	Date	Price

Customer

Customer_id	name	Email	Phone_number

Booking

Booking_id	Customer_id	Show_id	Booking_date

Payment

Payment_id	Booking_id	Payment_method	Amount