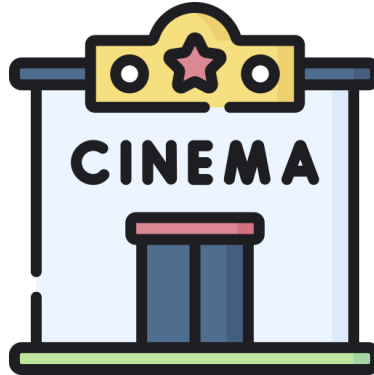


Database Project Document

Cinema Booking System



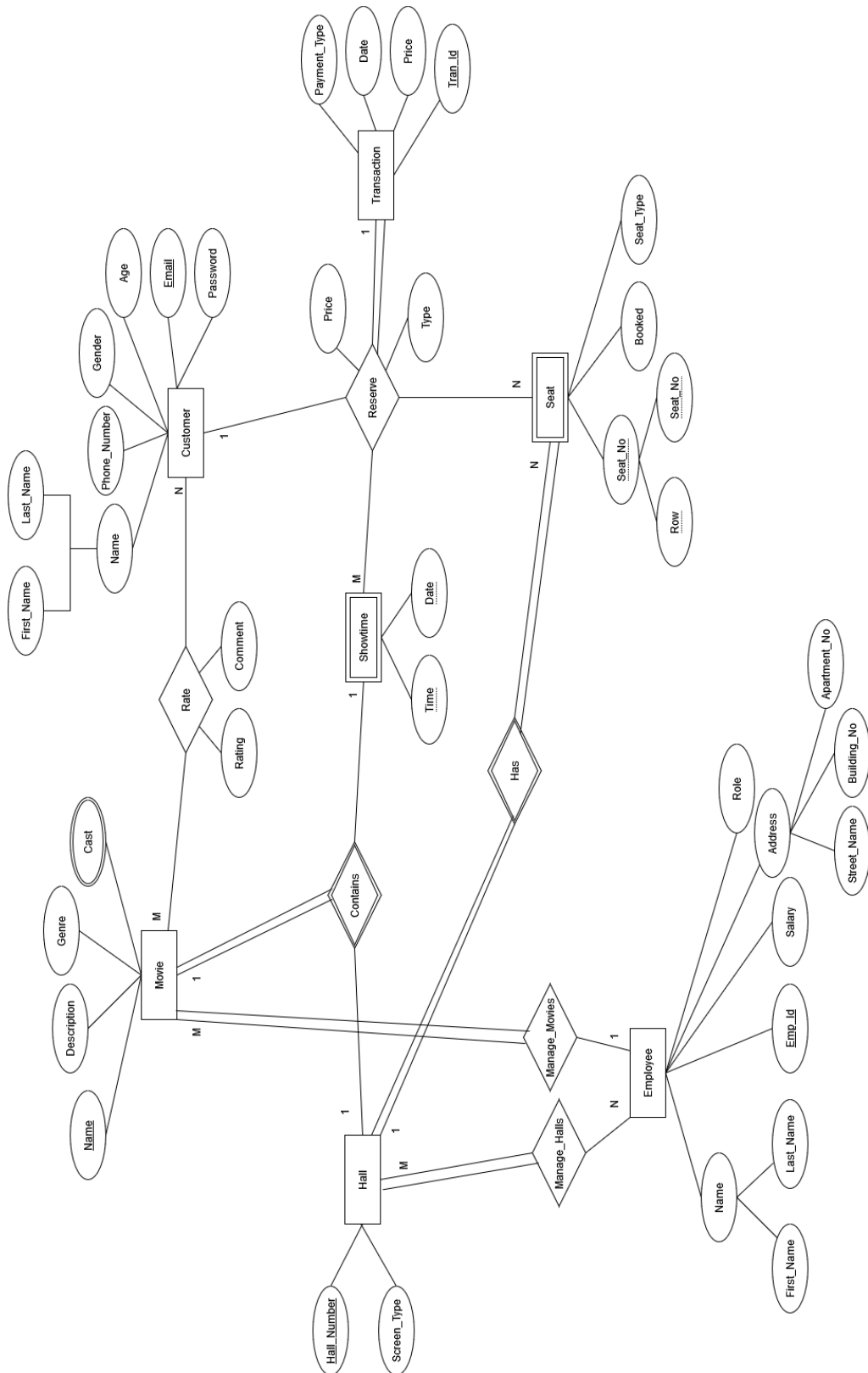
Team 21

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Project Description:

The project is a cinema booking system where the entities involved in this system are **Customer**, **Employee**, **Movie**, **Hall**, **Seat**, **Showtime**, and **Transaction**. The Cinema Booking System is a user-friendly platform that allows customers to reserve movie tickets conveniently. With this system, users can browse a wide selection of movies, view showtimes, and choose their preferred seats. The system provides real-time seat availability, ensuring that customers can select seats that best suit their preferences. Customers can also filter their search based on genres to find the movies they are interested in. Overall, the Cinema Booking System streamlines the movie ticket booking process, making it easy and convenient for customers to reserve their seats for an enjoyable movie-going experience. The relationships demonstrated in the following ERD are **Rate** which is a relationship between **Customer** and **Movie** where a customer can rate a movie and leave a review. The Employee has 2 relationships with movie **Manage_Halls** and **Manage_Movies** for maintaining the halls and movies, also there exists **has** relationship between **Hall** and **Seat** as each hall contains seats and **Seat** is a weak entity as it is identified by the hall it is in. There is a ternary relationship **Contains** between **Movie**, **Hall**, and **Showtime** as each showtime is associated with a movie and a hall, Also **Showtime** is a weak entity as it is identified by the **Movie** and **Hall** with partial keys Time and Date. There is a quaternary relationship **Reserve** between **Customer**, **Showtime**, **Seat** and **Transaction** to represent when a customer books seats and confirms the transaction.

Entity-Relationship Diagram (ERD):



Database Schema (Relational Mapping):

