Project ERD or Schema
Movie Management System

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Data Schema:

Table: movies

Columns:

id (primary key, unique identifier for each movie)

title (text, the title of the movie)

genre (text, the genre of the movie)

release_date (date, the release date of the movie)

synopsis (text, a brief description of the movie)

Table: ratings

Columns:

id (primary key, unique identifier for each rating)

movie_id (foreign key referencing the id column in the movies table, identifies the movie associated with the rating)

user_id (text or foreign key referencing a user table, identifies the user who rated the movie)

rating (integer, the rating given by the user, typically from 1 to 5)

Table: reviews

Columns:

id (primary key, unique identifier for each review)

movie_id (foreign key referencing the id column in the movies table, identifies the movie associated with the review)

user_id (text or foreign key referencing a user table, identifies the user who wrote the review)

review_text (text, the content of the review)

date (date, the date the review was submitted).
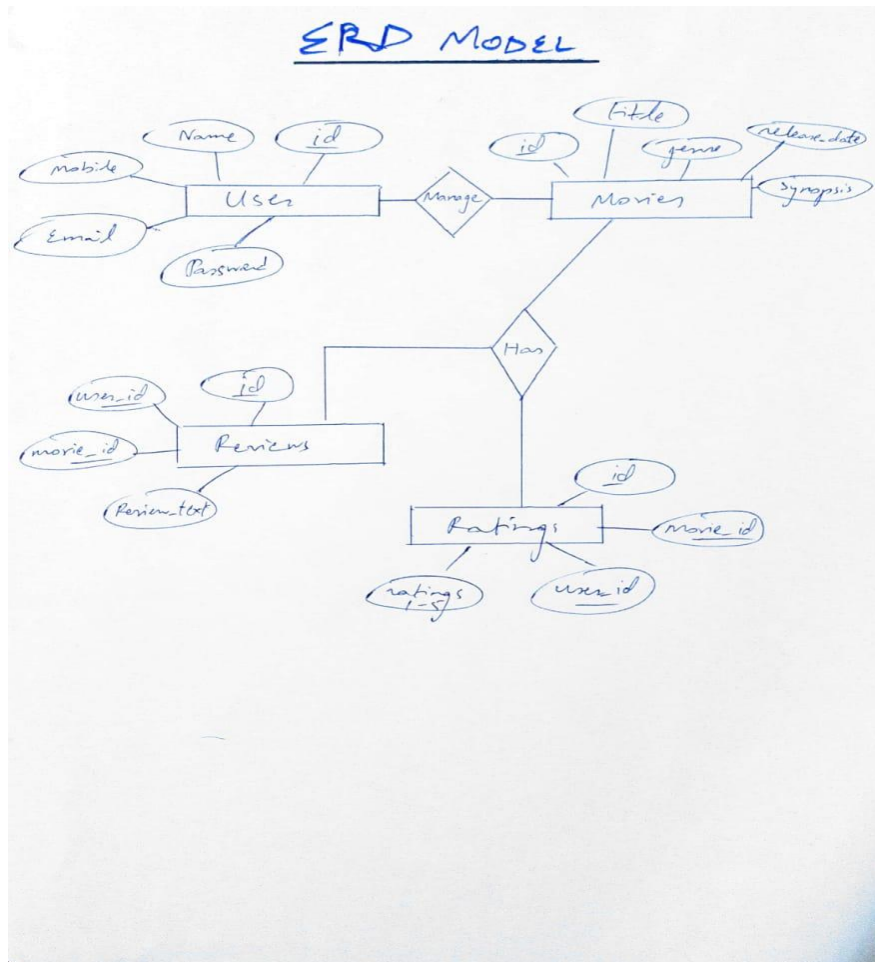

Table: users

Columns:

id (primary key)

user-name (To show profile name and call the user with the given name)

user_email(To identify the user and for update notifications)

Mobile_no (To identify the user from his/her number)

user_password (password, for security purposes).

ERD Model:

 In this ERD model, we have four tables: users, movies, ratings, and reviews. Additionally, we have a placeholder table user to represent user information.

The relationships between the tables are represented as follows:

1. The user has many-to-many relationship with the movies.
2. The movies table has a one-to-many relationship with both the ratings and reviews tables. This means that one movie can have multiple ratings and reviews, but each rating and review is associated with only one movie.
3. The ratings table has a many-to-one relationship with the users table, indicating that multiple ratings can be given by the same user.
4. The reviews table also has a many-to-one relationship with the users table, indicating that multiple reviews can be written by the same user.