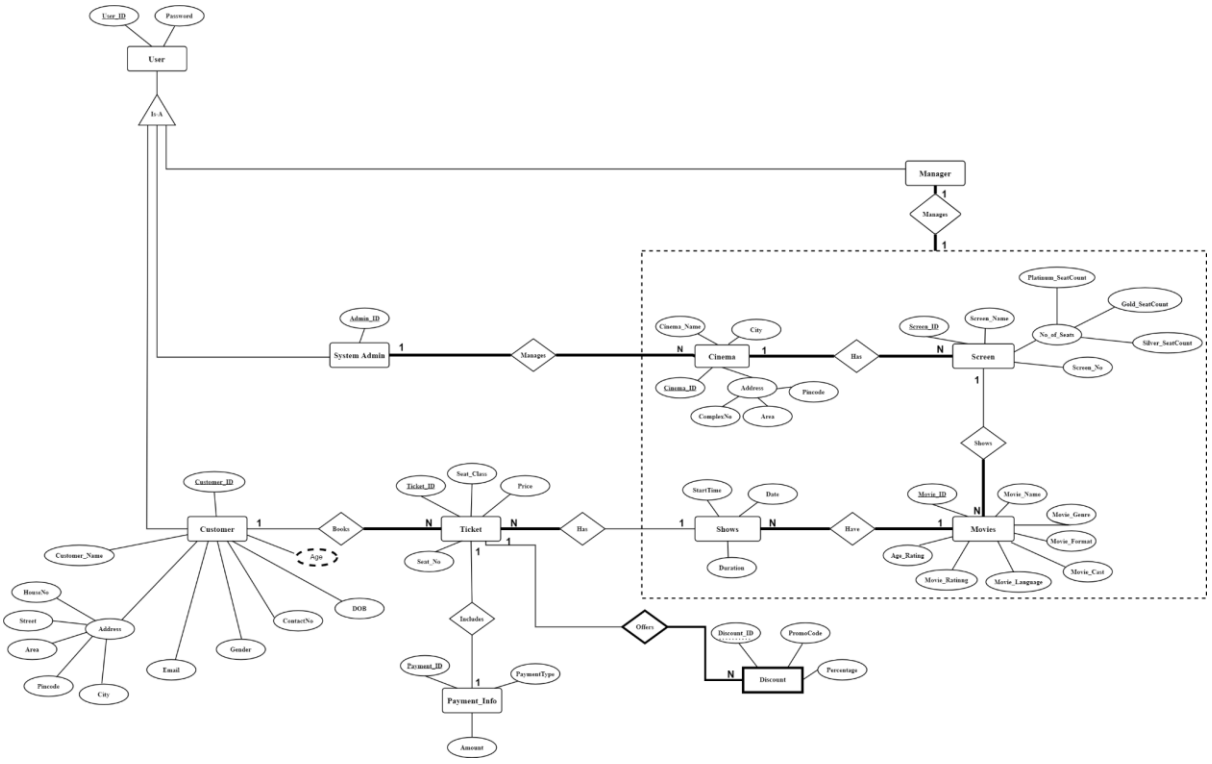
# 2.ER DIAGRAM

# E-R Diagram: Movie Ticket Booking System

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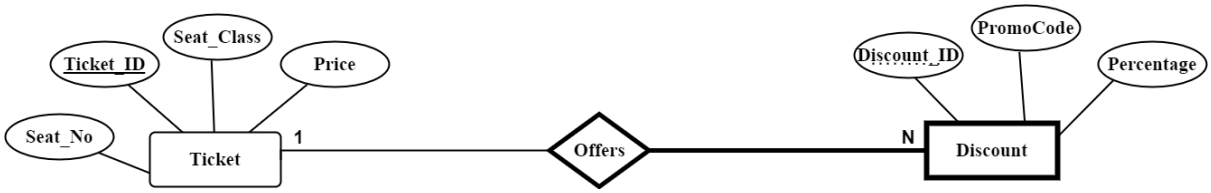
## 1)Weak Entity Set/s, Identifier for Weak Entity Set:




Here the weak entity set is Discount.

A discount can only be offered when a Ticket entity exists. Also there is a total participation of Discount entities in the Offers relationship.

Discount_ID is the partial key of Discount Entity.

Ticket entity and Discount entities are in one to many relationship.

Identifier for weak entity set - Discount_ID, Ticket_ID.

## 2) Types Of Relationships:

### 1)Hierarchy Relationship:

User -> Is-A -> Admin

User - > Is-A -> Customer

User -> Is-A -> Manager

### 2)Simple Association Relationship:

Admin -> Manages -> Cinema

Cinema -> Has -> Screens

Screen -> Show -> Movies

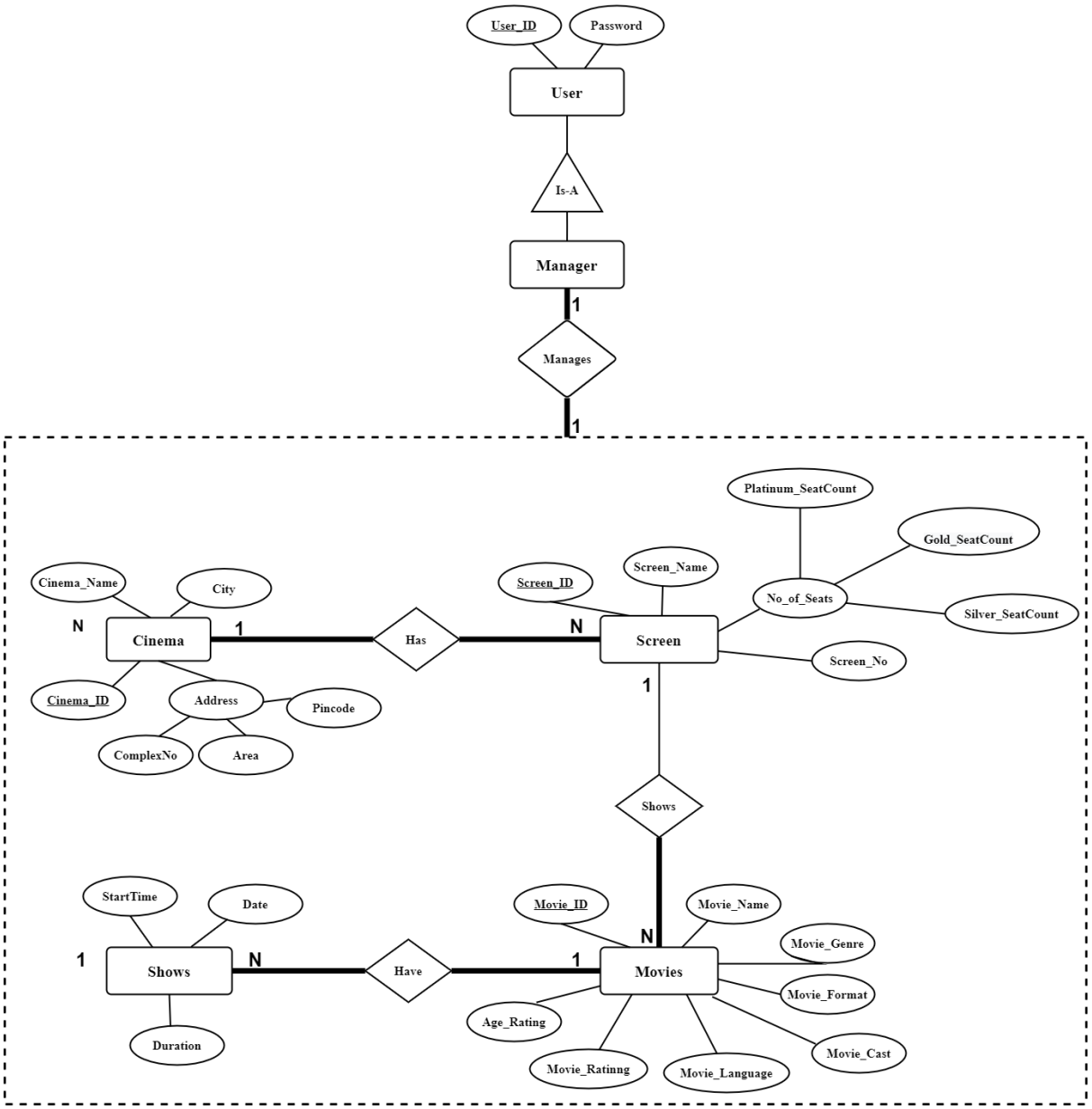
Movies -> Have -> Shows

Ticket -> Has -> Show

Customer -> Books -> Ticket

Ticket -> Includes -> Payment_Info

Ticket -> Offers -> Discount

## 3)Aggregation Relationship:

Manager -> Manages -> Aggregation (Cinema, Screen, Movies, Shows)