

# ***DBMS PROJECT DESCRIPTION***

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## **Strong Entities with attributes :**

- User (userId, name, phoneNum)
- Buyer (userId)
- Seller (userId)
- Bank Card (cardNumber, userId, bank, cardType, expiryDate)
- Store (sid, name, startTime, customerGrade, streetAddr, city, province)
- Product (pid, sid, name, brand, type, amount, price, color, customerReview, modelNumber)
- Order Item (itemid, pid, price, creationTime)
- Orders (orderNumber, creationTime, paymentStatus, totalAmount)
- Address (addrid, userid, name, city, postalCode, streetAddr, province, contactPhoneNumber)

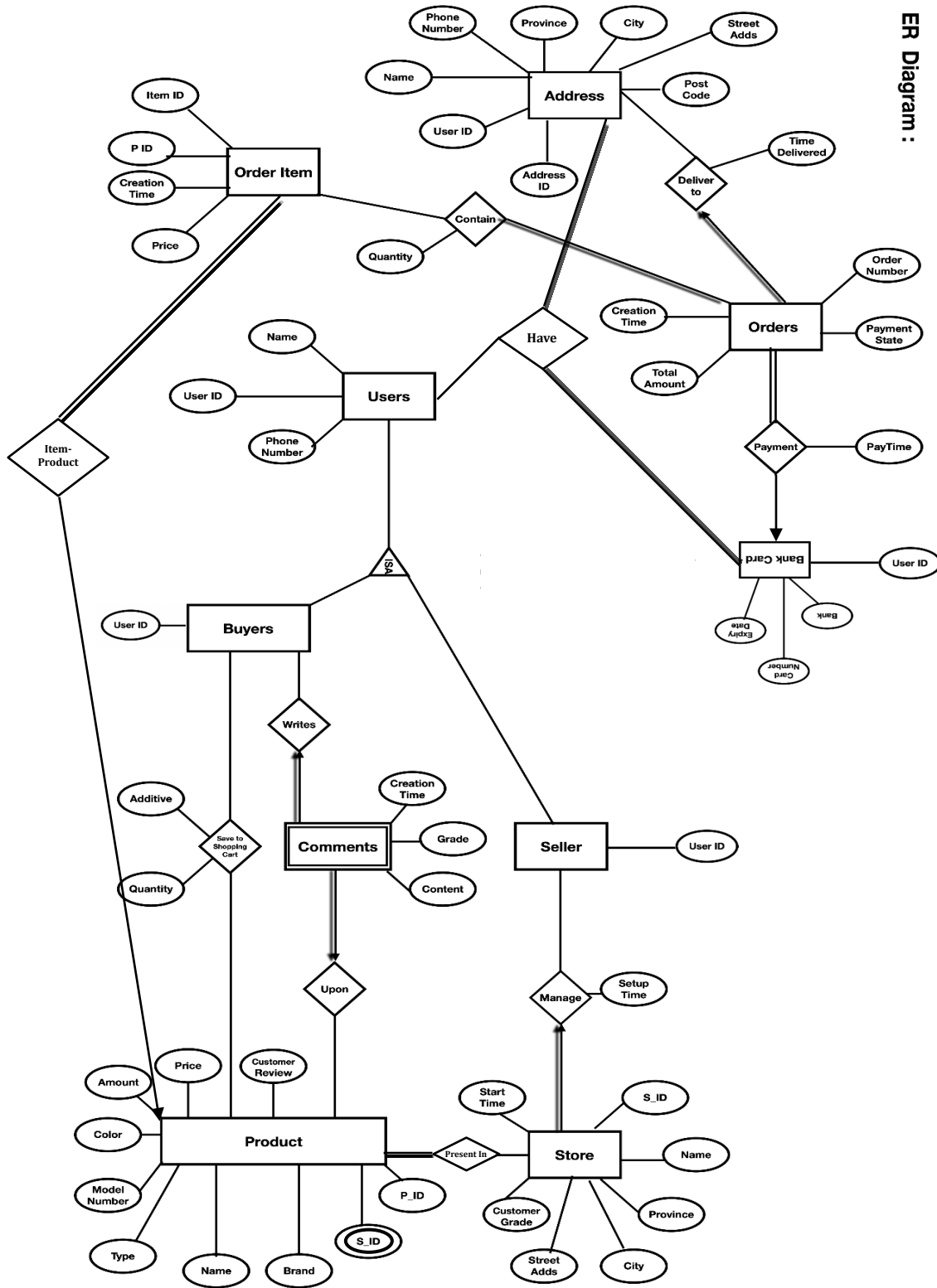
## **Weak Entities with attributes :**

- comments(creationtime,userid,pid,ratings,review)

## **Relationships:**

- Manage (userid, sid, SetupTime) (userid ref Seller, sid ref Store)
- Save to Shopping Cart (userid, pid, quantity, addtime) (userid ref Buyer, pid ref Product)
- Contain (orderNumber, itemid, quantity) (orderNumber ref Order, itemid ref Order Item)
- Deliver To (addrid, orderNumber, TimeDelivered) (addrid ref Address, orderNumber ref Order)
- Payment (B.cardNumber, orderNumber, payTime) (B.cardNumber ref Bank Card, orderNumber ref Order)

ER Diagram :



## **Tasks :**

- 1) We can find the comments of the products.
- 2) We can find details of all users registered.
- 3) A new user can register into the database.
- 4) We can update the name and contact details of the user.
- 5) We can check what products are saved to the shopping cart.
- 6) We can check the quantities of each product ordered.
- 7) We can create a view of all product sales in a particular year.
- 8) We can add/delete a store
- 9) We can find the number of customers who have given a rating between a particular range for a particular product.
- 10) We can find the product which was ordered the most by the buyers.

## **Answer to Comments:**

- 1) We have updated the tasks as per the requirements.
- 2) Product entity indicates products that are available in store that buyers can buy. Product entity contains information about the name of product, its type, its brand, and its price.
- 3) We have updated the ER diagram, now the product entity contains attribute quantity which represents the no.of items for a particular product available.
- 4) Store entity indicates the information about a particular store such as its name and address. Products will be present in the store.
- 5) We have updated the store product relation. Now the product entity and the store entity are related by the relation “present in”.
- 6) We have updated the orderItem-Product relation. Now the Product entity and the orderItem entity are related by the relation “Item-Product”. The order item have attributes product\_id and item\_id where product\_id indicates which product and item\_id indicates which particular item. For example let us consider we ordered 3 samsung m31 mobiles then, product\_id represent samsung m31 model and item\_id represent which specific mobile out of 3 samsung m31 mobiles ordered.