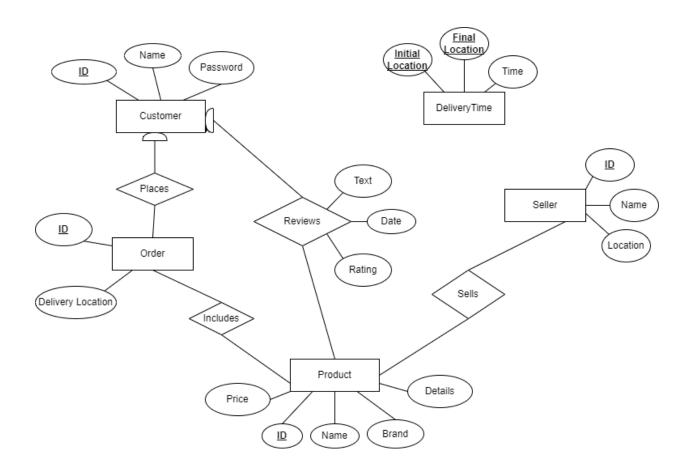
Conceptual and Logical Database Design

The ER Diagram for our database is shown below:



The relational schema for our database is as follows:

- 1. Customer(ID: INT(PK), Name: VARCHAR(255), Password: VARCHAR(30))
- 2. Orders(ID: INT(PK), deliveryLocation VARCHAR(100))
- 3. Product(ID: INT(PK), Name: VARCHAR(255), Brand: VARCHAR(255), Price: INT, Details: VARCHAR(255))
- 4. Seller(ID: INT(PK), Name: VARCHAR(255), Location: VARCHAR(100))
- 5. DeliveryTime(iLocation: VARCHAR(100), fLocation: VARCHAR(100), time: INT, PK(iLocation, fLocation))
- Places(custId: INT(FK to Customer.ID), orderId: INT(FK to Orders.ID), PK(custId, orderId))
- 7. Includes(orderld: INT(FK to Orders.ID), productld: INT(FK to Product.ID), PK(orderld, productld))

- 8. Sells(sellerId: INT(FK to Seller.ID), productId: INT(FK to Product.ID), PK (sellerId, productId))
- 9. Reviews(custId: INT(FK to Customer.ID), productId: INT(FK to Product.ID), date: DATE, text: VARCHAR(255), rating: INT, PK(custId, productId))

Our core assumptions are the following:

- For each customer, they can only provide one review per product
- Each order should have at one and only one customer placing it
- Each order can include multiple products. The same product can be included in multiple orders
- Each seller can sell multiple products. Each product can be sold by multiple sellers