|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Exp. No** | **Conducted on** | **Submitted On** | **Date of Late Submission**  **(if Any)** | **Max Marks Allotted** | **Marks Obtained** | **Faculty Signature** |
| 1 | 07/03/2022 | 09/03/2022 |  | 10 |  |  |
| **Exp Title** | ER Diagrams  Saket Kumar Baranwal (RA1911003010414) | | | | | |

**Aim To construct the ER Diagram for online food ordering system**

**Tool used: -** Draw.io

**Procedure:-**

A workflow created to facilitate the creation of the diagram

1. Mention all the entities involved - **Restaurants**, **Items** (menu Items for all the restaurants), **Customers**, **Reviews** ( by customers for different restaurants), **Transaction.** Represent them as rectangles in the diagram.

2. For each entity, all its attributes are drawn inside an ellipse and a primary key is represented as underlined text inside an ellipse.

3. All the Relationships drawn are as follows:

● Each restaurant has many menu items and each menu item might belong to many restaurants and hence many to many cardinality.

● Each restaurant has many reviews and each review belongs to one restaurant only hence it’s one to many relationship.

● One menu item can be selected by many customers and one customer can

select more than one menu items hence it’s many to many cardinality.

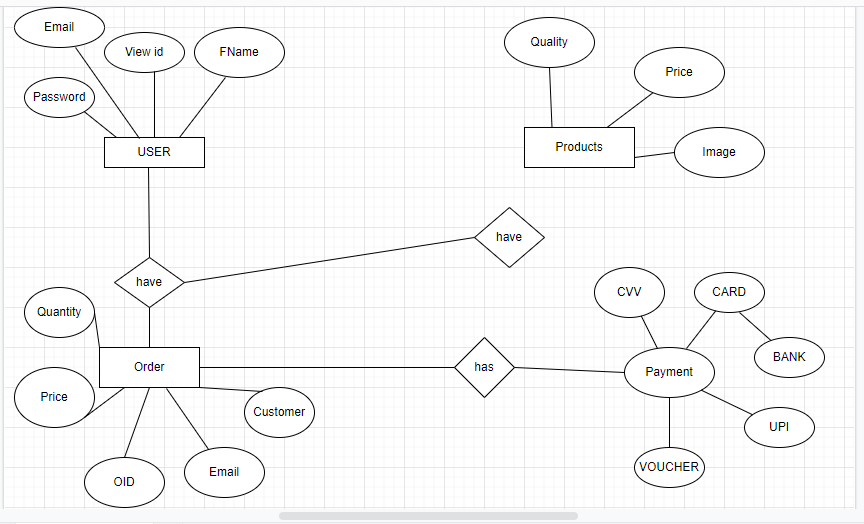
● Each customer has a single cart and each cart belongs to a single customer hence it’s one to one relationship.

● From one cart, multiple transactions are possible but a given transaction belongs to an individual cart hence it’s one to many transactions.

4. Cart is a weak entity as it’s unique for each individual so we don’t need to assign a primary key to it

.

**Output:-**

****