**DATABASE MANAGEMENT SYSTEM ASSIGNMENT -II**

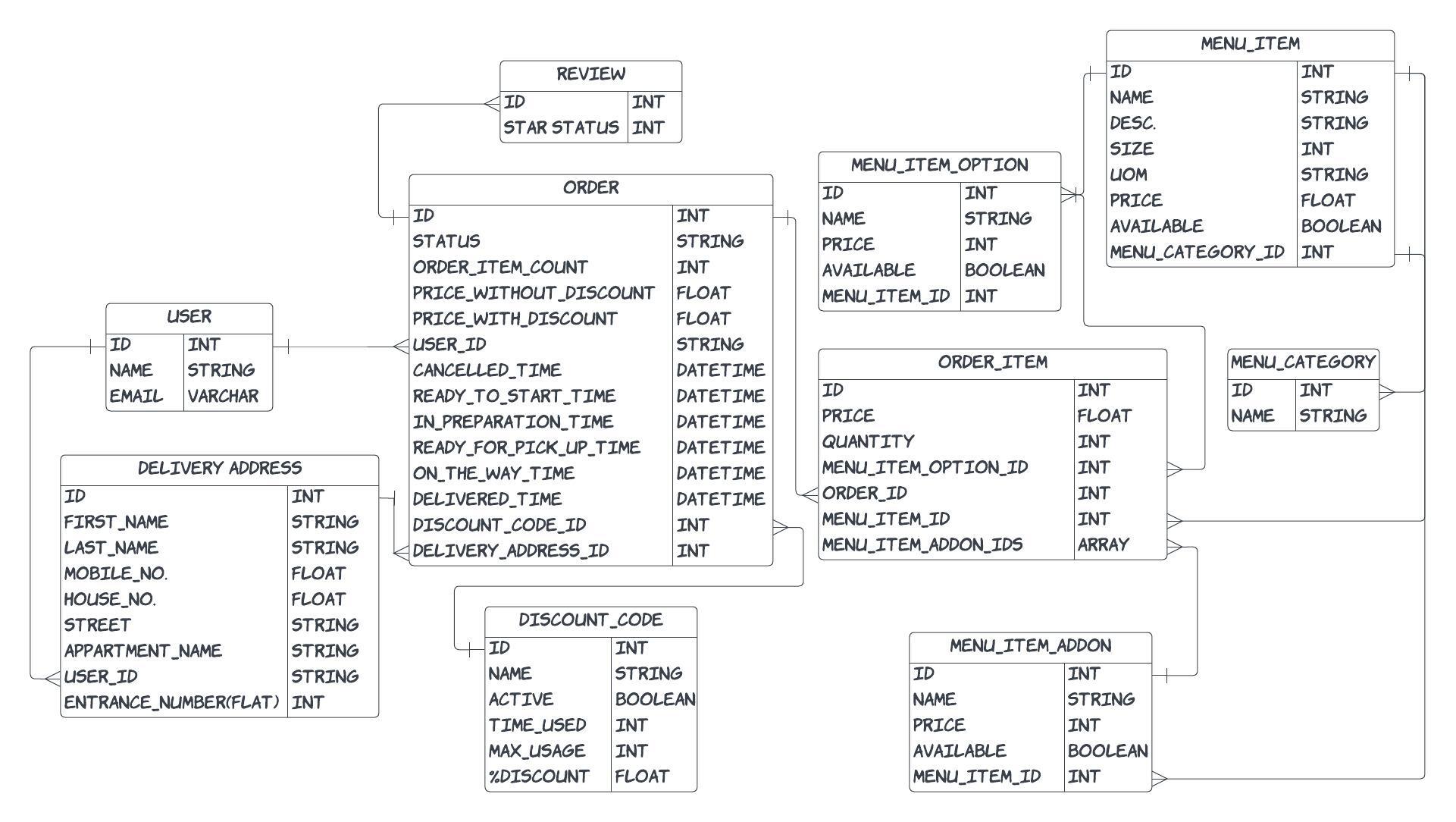
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**ENTITY RELATIONSHIP DIAGRAM**



**HOW IT WORKS:**

1. A user places one or more orders with certain intervals.
2. An order can contain one or more food Items from the same or different restaurant.
3. An item belongs to one restaurant can be placed from their menu option (available for each respective restaurants).
4. The user can apply discount coupon, if available.
5. From specific restaurant if the user order items from menu and also, they will be presented with option of including add-ons to the food placed for order.
6. Finally, the order will be placed for one or more food items with or without discount applied.

**DESCRIPTION:**

In this ER Diagram, we have 9 entities:

* User,
* Delivery address,
* Order,
* Order item quantity,
* Discount code,
* Review,
* Menu item,
* Menu item option,
* Menu category,
* Menu item add-on.

**ATTRIBUTES:**

* **User Entity:**

01)Id,

02)Name,

03)Email.

* **Delivery\_address Entity:**

01)Id,

02)First\_Name,

03)Last\_Name,

04)Mobile\_No,

05)House\_No,

06)Street,

07)Appartment\_Name,

08)User\_id,

09)Entrance\_No.

* **Order Entity:**

01)Id,

02)Status,

03)Order\_item\_count,

04)Price\_without\_discount,

05)Price\_with\_discount,

06)User\_id,

07)Cancelled\_time,

08)Ready\_to\_start\_time,

09)In\_preparation\_time,

10)Ready\_for\_pick\_up\_time,

11)On\_the\_way\_time,

12)Delivered\_time,

13)Discount\_code\_id,

14)Delivery\_address\_id.

* **Order\_item\_quantity Entity:**

01)Id,

02)Price,

03)Quantity,

04)Menu\_item\_option\_id,

05)Order\_id,

06)Menu\_item\_id,

07)Menu\_item\_addon\_ids.

* **Discount\_code Entity:**

01)Id,

02)Name,

03)Active,

04)Time\_used,

05)Max\_usage,

06)%Discount.

* **Review:**

01)Id,

02)Star Status.

* **Menu\_item Entity:**

01)Id,

02)Name,

03)Description,

04)Size,

05)UOM, #Unit\_of\_measure

06)Price,

07)Available,

08)Menu\_category\_id

* **Menu\_item\_option Entity:**

01)Id,

02)Name,

03)Price,

04)Available,

05)Menu\_item\_id.

* **Menu\_category Entity:**

01)Id,

02)Name**.**

* **Menu\_item\_addon Entity:**

01)Id,

02)Name,

03)Price,

04)Available,

05)Menu\_item\_id.

**UNDERSTANDING MAPPING CARDINALITIES:**

**(ONE-TO-ONE RELATIONSHIP)**

In this ER Diagram, the entity **ORDER ITEM** is associated with the entity named **MENU ITEM**.

**(ONE-TO-MANY RELATIONSHIP)**

In this ER Diagram, the entity **USER** is associated with the entities **DELIVERY ADDRESS** and **ORDER.**

Similarly, the entity **ORDER** is associated with the entities **DISCOUNT CODE, REVIEW** and **ORDER ITEMS.**

In the similar accounts, **MENU ITEM** is associated with the entities with **MENU ITEM OPTION** and **MENU ITEM ADDON**.

**(MANY-TO-ONE RELATIONSHIP)**

In this ER Diagram, the entity **MENU ITEM** is associated with the entity named **MENU CATEGORY**.

Same as above, the entity **ORDER ITEM** addon is associated with the entity named **MENU ITEM ADDON**.