

ER Diagram for Restaurant Management System

The **Restaurant Management System ER Diagram** reveals the relationships between restaurant entity sets that form its database design. This displays the logical structure of databases. It is done by identifying entities, their properties, and the interactions between them.

The **Restaurant Management System database design** is sketched out using **ER diagrams**. This database sketch for a restaurant management system is made up of **entities, their attributes, and their relationships**.

What is a Restaurant Management System?

Restaurant management software aims to simplify some of the most common management duties in the restaurant industry. For example, it can combine information from different online booking channels so you can see all reservations and keep this information up to date to avoid double bookings.

This restaurant management system refers to all software that aids in the efficiency of foodservice operations. Restaurants, bars, bakeries, cafes, cloud (dark, virtual, ghost) kitchens, food trucks, and delivery services are all examples.

Definition of ER Diagram

The **Restaurant Management System ER Diagram** is referred to as the **software database design**. This ER Diagram is the graphical depiction of relationships between all the entities involved in the system. Its major components are Entities, Attributes, and Relationships.

The ER Diagram is used to build and troubleshoot the System's relational database. It works best with DFD (Data Flow Diagram), which is responsible for data movement.

Importance of ER Diagram for Restaurant Management System

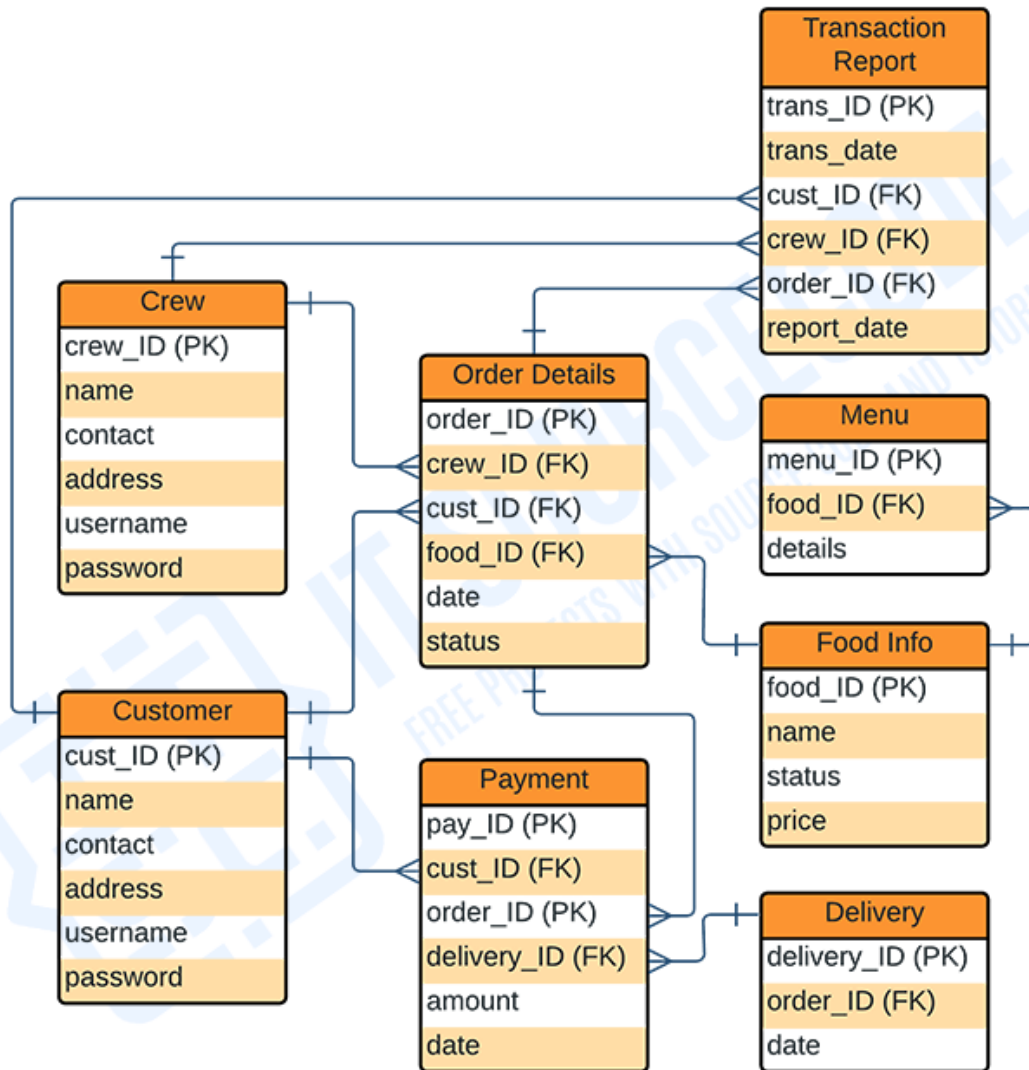
The **importance of ER diagram for restaurant management system** is to help in modeling its data storage or database. It is the basis of the project's database foundation for construction. This entity-relationship diagram (ERD) also aids in defining the data types to be stored such as their attributes and characteristics.

In addition to that, the ER Diagram also describes how an entity interacts with other entities. All other real-world projects are presented with ER Diagrams (database designs).

Restaurant Management System ER Diagram

ER Diagram of Restaurant Management System shows the system entity and the supposed functions in each relationship. It is the supposed database design of the project. This conveys the data that would be present in the restaurant system, its characteristics, and its connection with other data (entity).

RESTAURANT MANAGEMENT SYSTEM



ER DIAGRAM

ER Diagram for Restaurant Management System

This diagram presents the entities' relational model for the restaurant management system. It is used to enlighten you on how the back end of the database of the project works. The tables

are made to meet the required specification of the system and provide much more specific details of each entity within the system.

ER Diagram for Restaurant Management System with Tables

Table Name: Customer

Field	Description	Type	Length
cust_ID (PK)	Customer ID	Int	11
name	Customer Name	Varchar	255
contact	Customer Contact	Int	11
address	Customer Address	Text	
username	Customer Username	Varchar	255
password	Customer Password	Varchar	255

Table Name: Crew

Field	Description	Type	Length
crew_ID (PK)	Crew ID	Int	11
name	Crew Name	Varchar	255
contact	Crew Contact	Int	11
address	Customer Address	Text	
username	Crew Username	Varchar	255
password	Crew Password	Varchar	255

Table Name: Order Details

Field	Description	Type	Length
order_ID (PK)	User ID	Int	11
crew_ID (FK)	Crew ID	Int	11
cust_ID (FK)	Customer ID	Int	11
food_ID (FK)	Food ID	Int	11
date	Order Date	Date	11
status	Order Status	Varchar	255

Table Name: Payment

Field	Description	Type	11
pay_(PK)	Payment ID	Int	11
cust_ID (FK)	Customer ID	Int	11
order_ID (FK)	Order ID	Int	11
delivery_ID (FK)	Delivery ID	Int	11
amount	Amount	Int	11
date	Payment Date	Date	

Table Name: Menu

Field	Description	Type	Length
menu_ID(PK)	Menu ID	Int	11
food_ID (FK)	Food ID	Int	11
details	Menu Details	Varchar	255

Table Name: Food

Field	Description	Type	Length
food_ID (PK)	Food ID	Int	11
name	Food Name	Varchar	30
status	Food Status	Int	11
price	Food Price	Int	11

Table Name: Delivery

Field	Description	Type	Length
delivery_ID (PK)	Delivery ID	Int	11
order_ID (FK)	Order ID	Int	11
date	Delivery Date	Date	

Table Name: Transaction

Field	Description	Type	Length
trans_ID (PK)	Transaction ID	Int	11
trans_date	Transaction Date	Date	
cust_ID	Customer ID	Int	11
crew_ID (FK)	Crew ID	Int	11
order_ID (FK)	Order ID	Int	
report_date	Date of Report	Date	

Table Name: Transaction

The tables given will be the basis for developers on how would they do the **restaurant management system database design**. It has the complete description of the database and they will put this into the program or data storage the same as the names given to each of the tables. They will create a database with the attributes given as well as the value of each attribute.