

SCHEMA FOR RESTAURANT BILLING MANAGEMENT SYSTEM

Scope: This project mainly deals with generating the bill including the taxes and to extend the user convenience this could be achieved via online menu system where a user or customer can login and order the food, based on which a bill will be generated.

Features: Main features of this project includes

- Adding items to cart
- Finalizing the order
- Adding the charges and taxes
- Generating the bill

Meta Tables Used:

- time_slots - To store the time slots of a day
- taxes_and_charges - To store various taxes and their charges
- food_type - Stores the category of food like Starters, Main course etc
- payment_type - various payment methods like upi, cash etc

Tables:

- menu - To store the menu of a restaurant
- order_item - Stores the individual item with their quantity
- final_order - Stores all items
- customer - Customer basic details are stored
- payment - Stores the payment information to analyze the business

Constraints:

- Dish name is a unique key so that there are no multiple entries with same dish
- Customer_id and final order combination as unique key in payment table because one customer can have multiple orders, payments as well as one order can have multiple payments due to failure or technical issue hence the combination of both should be unique
- Start_time and End_time - a slot could be defined as any time period and hence different slots can have same start time or same end time but not same start and end time hence this combination is also unique

- Invoice id and menu id is unique because if same dish is ordered twice instead of new entry the quantity should be incremented

Schema:

