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.

Problem Statement: In traditional methods maintaining transparency and having optimal analysis of the business is quite difficult. And ordering the food via a physical menu card is a little difficult when compared to online ordering.

Additional Features: By moving the entire process of ordering online we can get access to some additional features like
- ➔ Easy to order
- ➔ Generate bill instantly
- ➔ Easy to analyze the best dish or most ordered dish
- ➔ Total Business of particular day could be evaluated
- ➔ Necessary steps could be taken based on the data
- ➔ Transparency to both customers and business owners

Modules:

The whole system has mainly 2 modules:

1. Admin side

   Admin or the restaurant manager can login with their credentials and get access to the orders placed by the user and deliver it as soon as possible. Once all the orders are successfully served a bill will be generated and admin can keep track of payment status Admin have the ability to:

   - ➔ Add new items to the menu
   - ➔ Add food items ordered by customer
   - ➔ Delete items from the menu
   - ➔ Change the price of any particular dish or item

➔ Check and maintain the payment status of each customer

➔ Fulfill the orders by customers

➔ Add convenience fee or taxes

➔ Analyze feedbacks of each dish

2. Customer side

This part mainly deals with ordering the food. A customer can order or select the dishes from the menu and once they are done automatically a bill will be generated based on the dishes ordered and any extra charges as per the requirements.
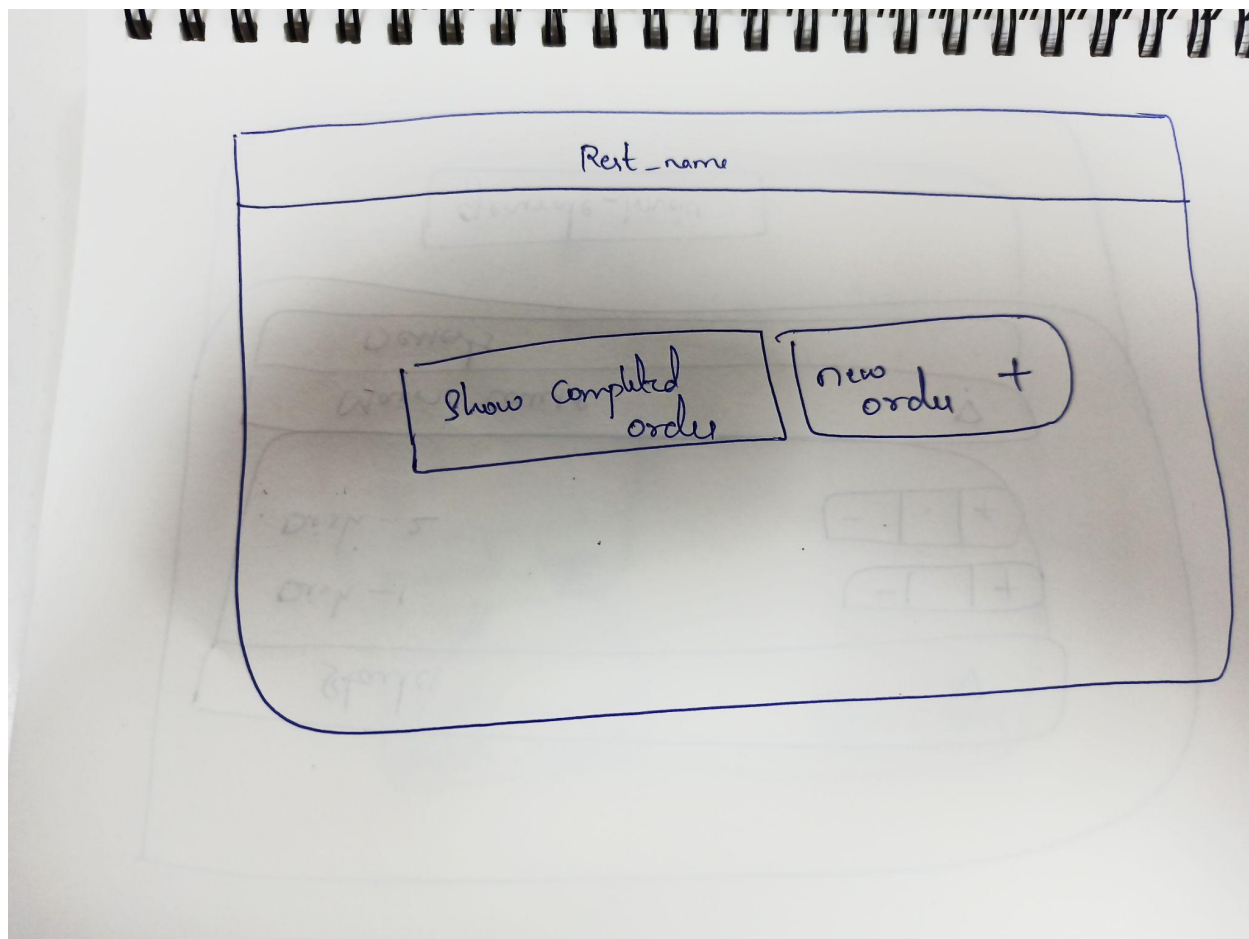Customers can:

➔ View menu in the website

➔ Give feedback to each dish

Requirements

➔ HTML, CSS, Bootstrap for designing purpose

➔ JS for user interaction

➔ MySQL for storing, retrieving menu, customer details

➔ JDBC to interact with Database

➔ Servlets, Filters to separate the Sessions of customer and admin side

Wire Frames

Flowchart

Rest_name

Show Completed order | new order +

Starter ▽

Dish —1 [— | [| +]
Dish — 2 [— | . | +]

Main course ▽
Desserts

[Generate_invoice]

1 x dish₁ 200
8 x dish₂ 760

taxes —
fee   —

payment - type

upi

Cash

debit - credit

Save & close