

# 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 in the application itself, 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
- 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:

- Add dishes to the cart
- Place the order
- Get detailed bill
- Make payments
- 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

Admin side

①

new order x    pending order    Finished orders

Logo	Restaurant name	⊕	⊖	✓	○ use
order_id	table_no	orders ▾			
		butter x 1		<input type="checkbox"/>	
		chicken		<input type="checkbox"/>	
		Butter		<input type="checkbox"/>	
		naan x 1		<input type="checkbox"/>	

made as complete

② pending orders

			Payment
orde_id	table_no	use_id	<input checked="" type="checkbox"/> marked as complete
order_id	table_no	use_id	<input type="checkbox"/> payment pending

③ Finished orders

paid via

order-id	table-id	order-id	total-amt	
				<div><input checked="" type="checkbox"/> Cash upi debit / credit</div>

④ analytics

Rest_name		
Best dish of day	most selling dish of day	total income generated
feedbacks		

osce side

① login page

Logo	Restaurant name
<div>username   phno</div>	
<div>otp</div>	

② menu page

Logo	Rest name	
① choose table no	<div></div>	<div>Cart</div>
② Menu	<div>Starter ✓</div>	<div>generate bill</div>
	<div>main course ✓</div>	
	<div>desserts ✓</div>	
	<div>Apricot delight</div>	<div>add</div>
	<div>Calce</div>	<div>add</div>



③

bill		
butter chicken	1	350
butter naan	4	200
amt		550
after taxes	Gst	620

pay via ▼

debit | credit

upi

cash.

④

Payment successful

visit again 😊

## Flowchart

