



RESTAURANT MANAGEMENT SYSTEM

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OVERVIEW

1. Introduction
2. The Problems
3. Objectives
4. System Architecture
5. ER Diagram

6. Data Flow Diagram
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INTRODUCTION

Despite being in the technological era, many restaurants still rely on outdated, traditional management methods. Our goal is to revolutionize the industry by introducing modern, technologically advanced solutions that bring much-needed change to restaurants and enhance their operations.



THE PROBLEMS

**MANUAL ORDER
TAKING**

**HIGH OPERATING
COSTS**

OBJECTIVES



```
graph TD; A[OBJECTIVES] --- B[Develop a centralized dashboard for staffs.]; A --- C[Allow customers to order directly from table without needing an waiter]; A --- D[Develop a simple table booking system.]
```

**Develop a
centralized
dashboard
for staffs.**

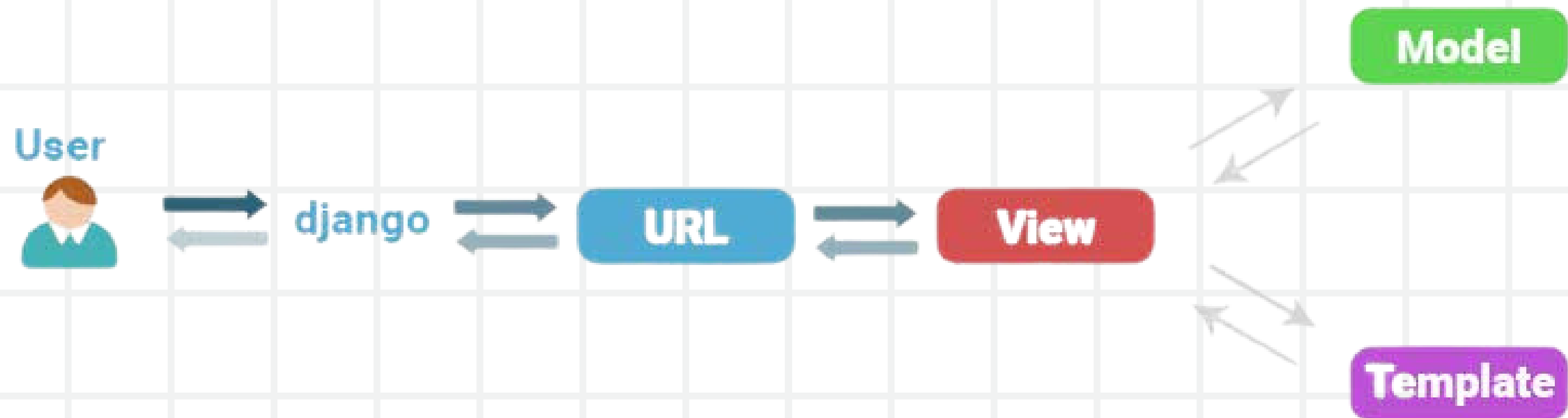
**Allow
customers to
order directly
from table
without needing
an waiter**

**Develop a
simple table
booking
system.**

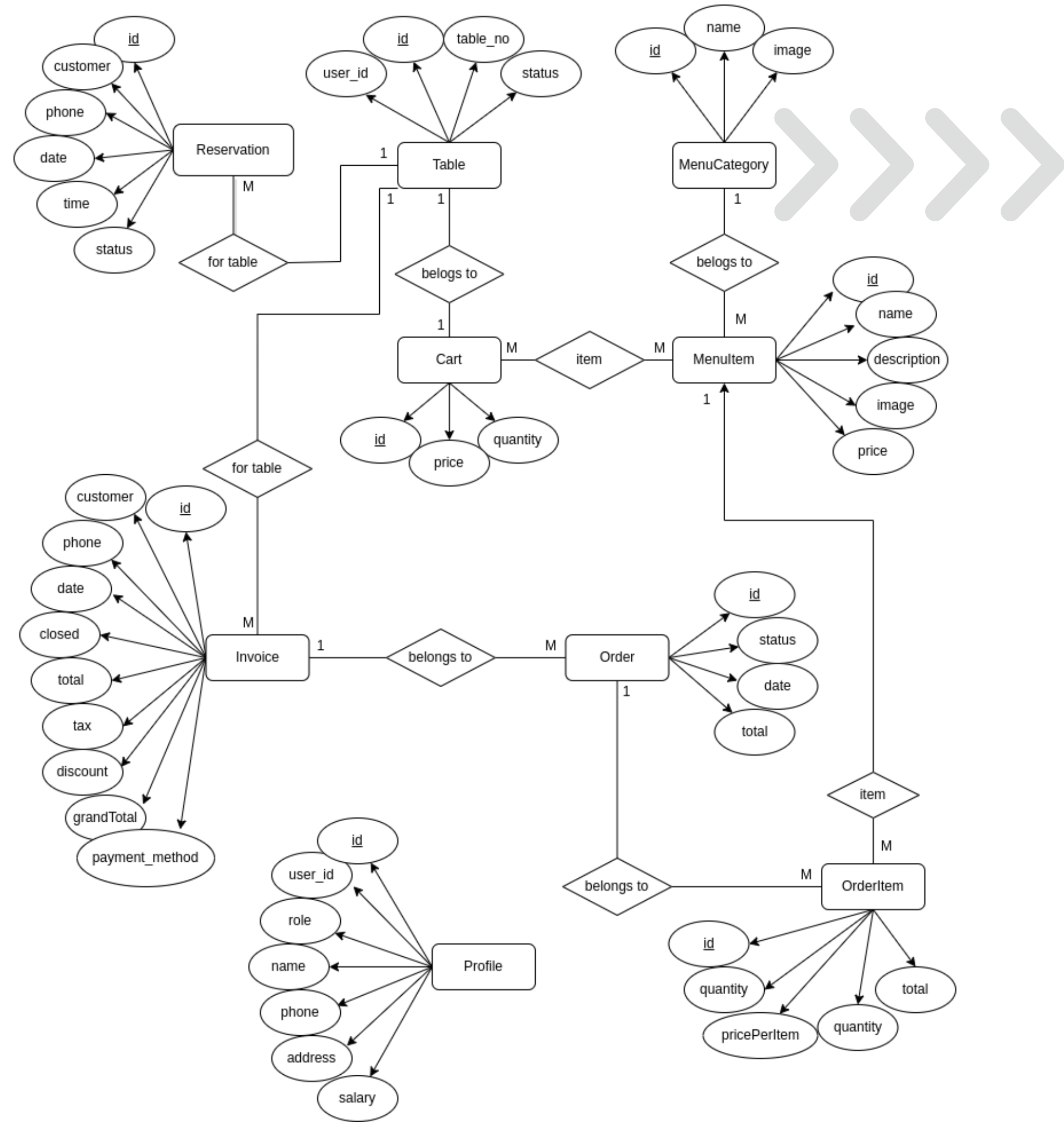
ARCHITECTURE



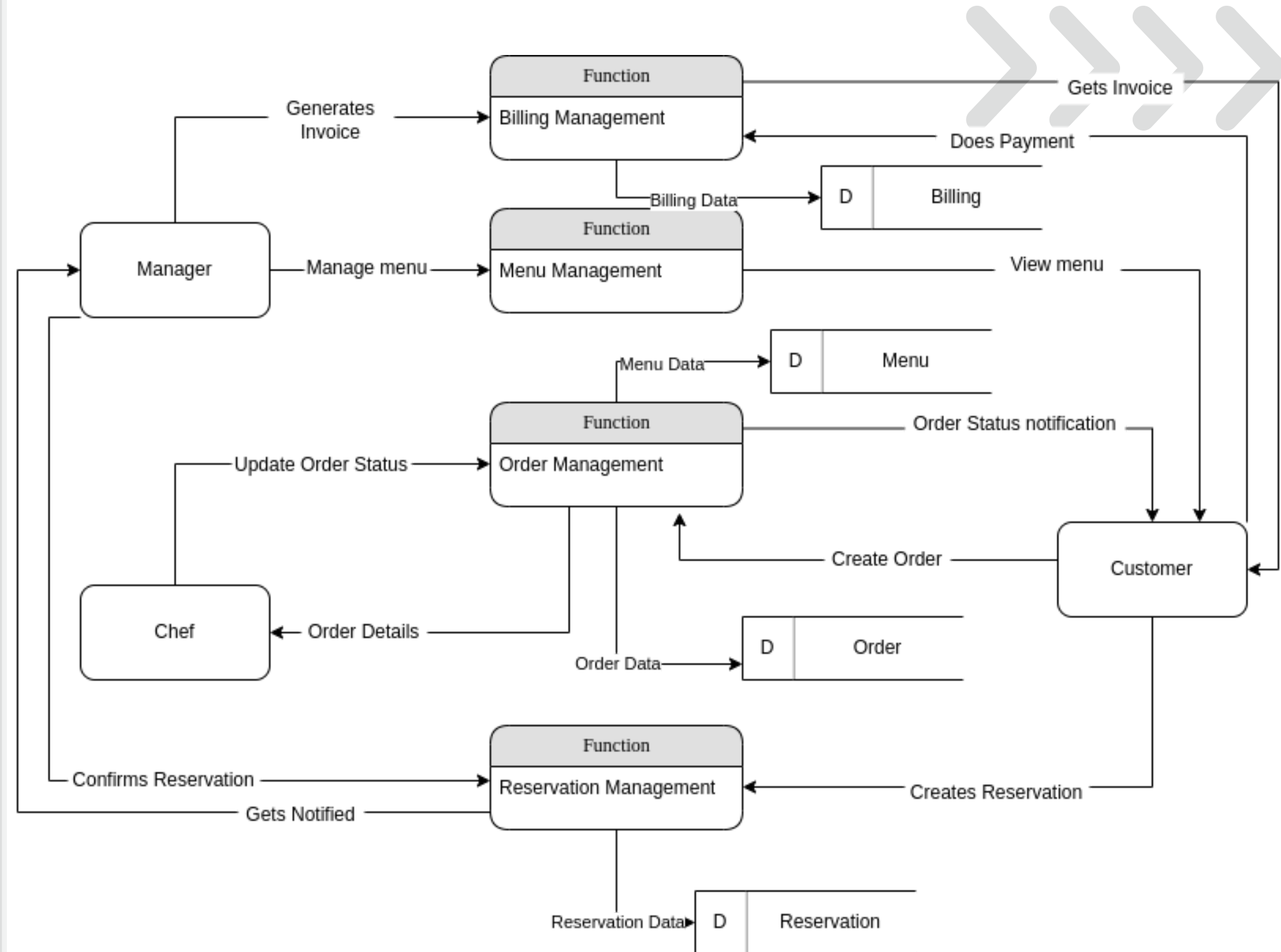
Our system will incorporate the use of MVT (Model, View, Template) architecture



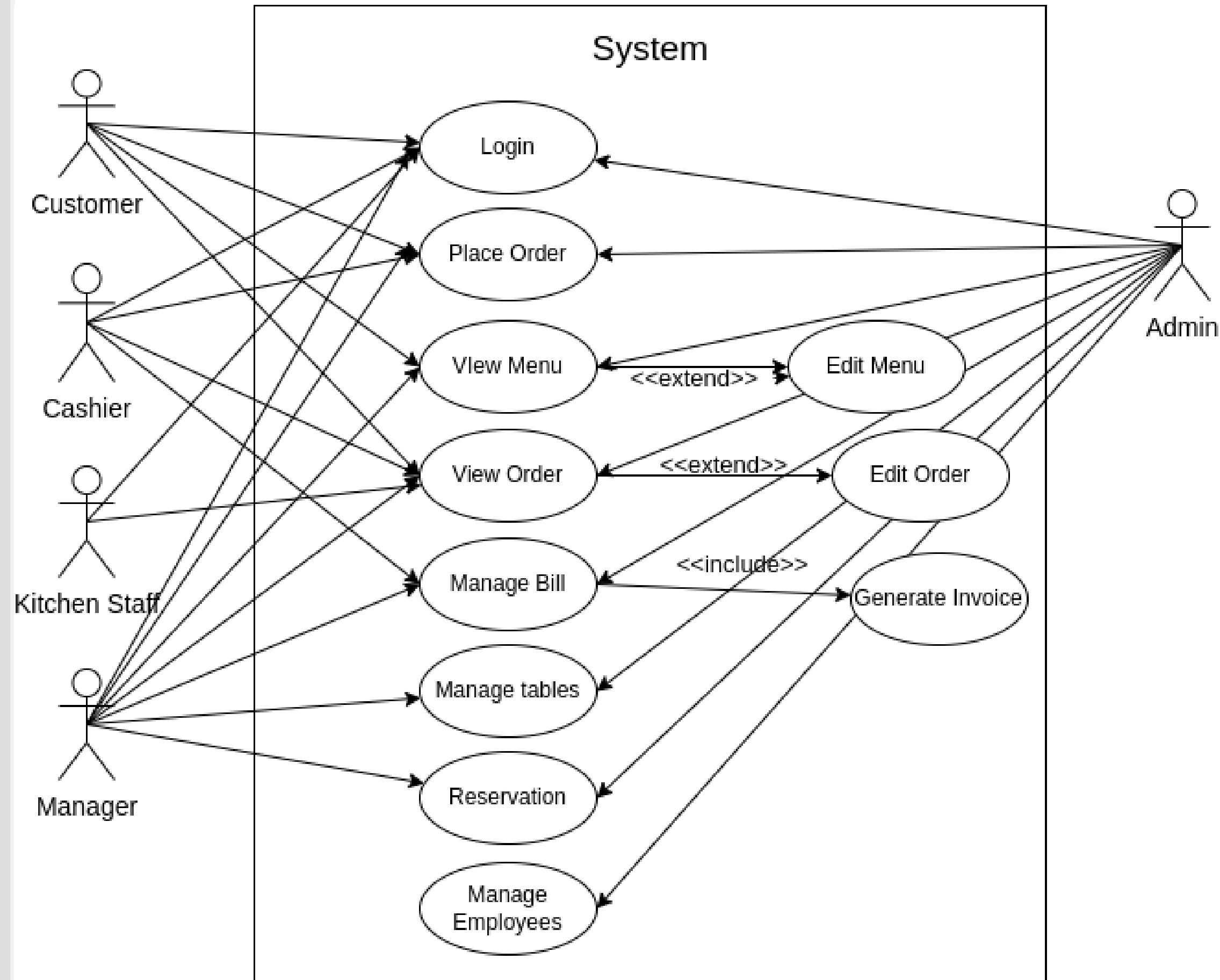
ER DIAGRAM



DATA FLOW DIAGRAM



USE CASE DIAGRAM



LANDING PAGE

👑 Royal Kitchen

Best **Kitchen** in Town

Royal taste guaranteed.


[Home](#) [Review](#) [Menu](#) [Contact/Reservation](#)




Healthy food,
loved by people.





MANAGER: BILLING


 Royal Kitchen


 Billing


 Invoices

 Orders 1

 Reservations

 Menu

 Employee

 Table

Billing

Welcome, Mr Admin

Logout

1
Occupied

2
Available

3
Available

4
Available

5
Available

6
Available

7
Available

8
Available

Table 1

Item	Unit price	Quantity	Total
Creamy Mushroom Soup	150	3	450
Grilled Chicken Caesar Salad	300	1	300
Mutton Kacchi	250	1	250

Total Bill: 1000

Prepare Bill

Customer

Phone

Total

Discount

Tax

Grand Total

Payment
Method


Payment
Status


Status

Print Invoice


Save Bill


MANAGER: INVOICE ARCHIVE


 Royal Kitchen

 Billing

 Invoices

 Orders 1

 Reservations

 Menu

 Employee

 Table

Invoice

Invoice #16
Feb. 15, 2023, 7:51 a.m.

Invoice #15
Feb. 14, 2023, 9:45 p.m.

Invoice #14
Feb. 14, 2023, 8:27 p.m.

Invoice #13
Feb. 14, 2023, 8:15 p.m.

Invoice #12
Feb. 14, 2023, 8:13 p.m.

Invoice #11
Feb. 14, 2023, 8:06 p.m.

Invoice #10
Feb. 14, 2023, 8 p.m.

Invoice #9
Feb. 7, 2023, 6:20 p.m.

Invoice #8
Feb. 7, 2023, 5:42 p.m.

Invoice #7
Feb. 5, 2023, 12:17 a.m.

 Royal Kitchen

Billed to
Name :
Phone:

Item	Unit Price	Quantity	Total
Creamy Mushroom Soup	150	3	450
Grilled Chicken Caesar Salad	300	1	300
Mutton Kacchi	250	1	250

Welcome, Mr Admin

Logout

Invoice #16
Feb. 15, 2023, 7:51 a.m.
Royal Kitchen
51, Siddheshwari Road
Dhaka-1217

Total	1000
Discount (0%)	0
VAT (0%)	0
Grand Total	1000
Paid By	Cash

MANAGER: MENU MANAGEMENT

👑 Royal Kitchen

💰 Billing

📄 Invoices

☰ Orders 1

📅 Reservations

☺ Menu

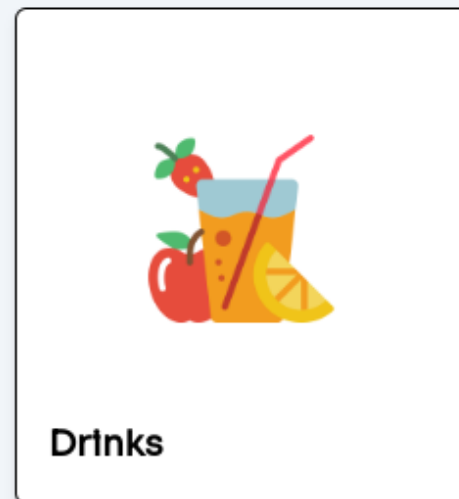
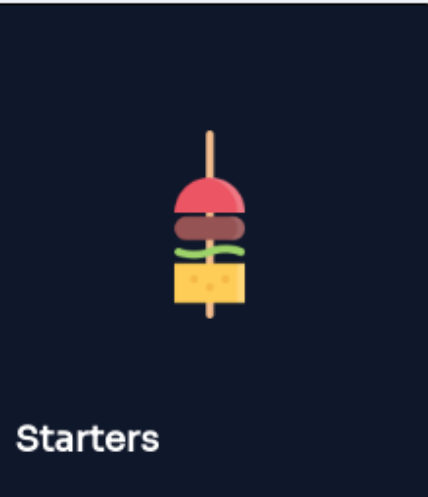
👤 Employee

🍷 Table

Menu Settings

Welcome, Mr Admin

Logout



Starters



Add New Item



CREAMY MUSHROOM
SOUP

BDT 150



GRILLED CHICKEN
CAESAR SALAD

BDT 300



GLAZED TOMATO
BRUSCHETTA

BDT 250



SMOKED DUCK GREEK
SALAD

BDT 300

MANAGER: RESERVATION MANAGEMENT

👑 Royal Kitchen

👁️ Billing

📄 Invoices

☰ Orders 1

📅 Reservations

🍽️ Menu

👤 Employee

🗺️ Table

Reservation

Welcome, Mr Admin

Logout

Tanvir Asad Onboarded

017000000000

16 Feb 2023, 06:00 PM

Asadur Rahman Onboarded

017000000000

06 Feb 2023, 07:30 PM

Reservation Details

Tanvir Asad 📞 017000000000

Customer

Tanvir Asad

Phone

017000000000

Date

02/16/2023

Time

06:00 PM

Assign Table

Table 1 - Occupied

Status

Onboarded

Delete

Update

TABLE DASHBOARD

ROYAL KITCHEN

See Order History



Starters



Rice Platter



Steak



Seafood



Dessert



Drinks



CREAMY MUSHROOM SOUP

BDT 150



GRILLED CHICKEN CAESAR
SALAD

BDT 300



GLAZED TOMATO
BRUSCHETTA

BDT 250



Grilled Chicken Caesar Salad

Grilled Chicken Caesar Salad is the more flavorful and fun version of the classic salad recipe. Add juicy grilled chicken and grill up the romaine lettuce for more texture.

300 BDT

-

1

+

Add to cart

Cart



Slow Roasted Prime Rib
BDT 1800 x 2 = 3600

-

2

+



Grilled Salmon with Lemon
Butter Sauce
BDT 500 x 1 = 500

-

1

+



Chocolate Lava Cake
BDT 300 x 1 = 300

-

1

+



Grilled Chicken Caesar Salad
BDT 300 x 1 = 300

-

1

+


Total

BDT 4700


Checkout





TABLE: ORDER STATUS


 ROYAL KITCHEN


See Order History


Starters


Rice Platter

Steak

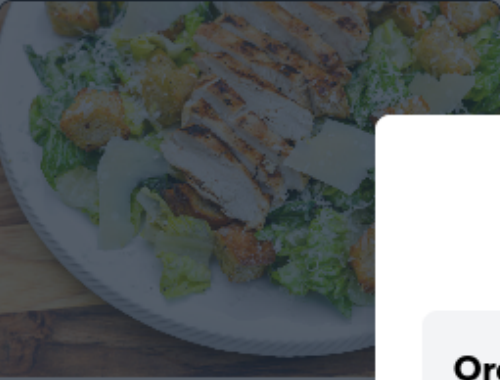
Seafood

Dessert


Drinks



CREAMY MUSHROOM SOUP
BDT 150



GRILLED CHICKEN CAESAR SALAD
BDT 300



SMOKED DUCK GREEK SALAD
BDT 300

Order History

Order No: 20

Status: Pending

Creamy Mushroom Soup150 x 3

Grilled Chicken Caesar Salad300 x 1

Mutton Kacchi250 x 1

Total: 1000

Order No: 21

Status: Pending

Slow Roasted Prime Rib1800 x 2

Grilled Salmon with Lemon Butter Sauce500 x 1

Chocolate Lava Cake300 x 1

Grilled Chicken Caesar Salad300 x 1

Total: 4700

Cancel

Get Invoice

150 BDT

-

1

+

Add to cart

Total

BDT 0

Checkout

CHEF DASHBOARD

Order #20

Pending

Order #20

Table 1

Item	Quantity	Total	Status
Creamy Mushroom Soup	3	450	Pending
Grilled Chicken Caesar Salad	1	300	Pending
Mutton Kacchi	1	250	Pending

Cooking

Ready

Served

Cancelled

BIG SCREEN FOR EVERYONE

1

Available

2

Available

3

Available

4

Available

5

Available

6

Available

7

Available

8

Available

Order Status

Last Updated: 8:43:19 AM

#21	Table 1	Cooking
#20	Table 1	Ready



LIMITATIONS

- **The system doesn't show the estimated time of an order**
- **The system isn't fully contactless as a waiter needs to deliver the order**





FUTURE WORKS

We plan to allow users to order directly from their own devices without the need for a dedicated device for each table.

We plan to add estimated time for each order.



THANK YOU



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