# **Restaurant Management System**

**REVIEW REPORT** 

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Prepared For

DATABASE MANAGEMENT SYSTEM (CSE2004)

PROJECT COMPONENT

Submitted To

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# <u>ACKNOWLEDGMENT</u>

We would like to express our special thanks to the VIT Chancellor, Dr. G. Viswanathan and our teacher Dr. Mohan Kumar for giving us the golden opportunity to do this wonderful project.

This project has allowed us to do a lot of research and has helped us to widen our knowledge in this subject. Throughout this journey we have learnt a lot of new things like connecting the website with the database, creating a good database etc. We hope to use these topics and create better and more advanced projects in the future.

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# Work break down structure template:

Team Member	Name	Work Assigned
Registration		
Number		

19BCE2261	PRITHISH SAMANTA	DESIGNED THE DATABASE, SOME WEB PAGES AND ALL THEORY RELATED WORK I.E. ER DIAGRAM, CONVERTING IT TO SCHEMA, NORMALIZATION AND PRESENTATION
19BCE2279	ANCHIT AGARWAL	DID MOST OF THE FRONTEND CODING, FULL BACKEND I.E. CREATION OF ROUTES, CONNECTING WITH DATABSE AND RUNNING ALL QUERIES
19BCE2259	TEJAS JONNADULA	IN CHARGE OF MAKING THE DOCUMENT

# 1. INTRODUCTION

# 1.1. BACKGROUND

This project is based on managing a database for restaurants. We will use the concept of relational database management system to collect

and extract records of the data. The project is to ensure the smooth operation of a restaurant at peak rush hours. Not only waiting for waiters, but also staff of restaurants i.e. waiters and chefs do not have a proper display of which order to serve whom or which table.

#### 1.2. OBJECTIVE

Our objective is to make an easy and aesthetic interface which will hide the complexity of database side programming so that anyone can use it without learning it from anyone or any prior training.

Our website's main objective is to make sure that the customers or users are not made to wait in a restaurant for a long time just for ordering food. Using our website he or she can give their orders smoothly and also efficiently.

The customer's responses will be prompted and updated quickly through this website and the chefs/ waiters will be able to serve our customers properly and create a wonderful experience for them.

#### 1.3. MOTIVATION

Whenever we go to a restaurant, we need to always wait for the waiter to come to us with the menu card and then only we can give him our order. This process is very time consuming and can sometimes take more than 10 mins. This long and tedious process can anger the customers and also spoil the restaurant's reputation,

which no restaurant owner wants to face. With our website, DBMS facilities this problem can be solved easily and can also help the customers too have a pleasant meal.

#### 1.4. CONTRIBUTIONS OF THE PROJECT

Our project will ensure that everybody working at the restaurant plus the customers are happy with their meal and service at the end of the day.

We can also use the same piece of tech to provide contactless ordering in restaurants and bars in these difficult times. Since the customers only have to use the website for ordering the food they will not come in contact with the waiters while they are taking the order.

#### 1.5. ORGANIZATION OF THE PROJECT

Our project is an essential tool for any restaurant. It is designed to keep the restaurant running smoothly and efficiently by keeping a track on the employees, inventory and sales. It is a comprehensive tool that allows the owner of the restaurant to examine the restaurant closely and its need in a glance, which can simplify the workload on a day-to-day basis.

#### 2. PROJECTS RESOURCE REQUIREMENTS

#### 2.1 SOFTWARE REQUIREMENTS

- 1. HTML Frontend
- 2. CSS Beautifying the frontend
- 3. BOOTSTRAP For some predefined classes for frontend
- 4. TAILWIND CSS For some predefined classes for frontend
- 5. TAILBLOCKS For some predefined classes for frontend
- 6. JQUERY For making web pages dynamic and adding search through text google API
- 7. FLASK For making https requests, and routing i.e. defining web pages in the website
- 8. MYSQL\_DB LIBRARY It is imported inside Flask to connect with database (localhost in this case) and run SQL queries
- 9. MYSQL8.0 DATABASE COMMAND LINE CLIENT OR

MYSQL 8.0 WORKBENCH - Setting up the Databaser

#### 2.2 HARDWARE REQUIREMENTS

Our program will work in any computer or a laptop with MySQL DB.

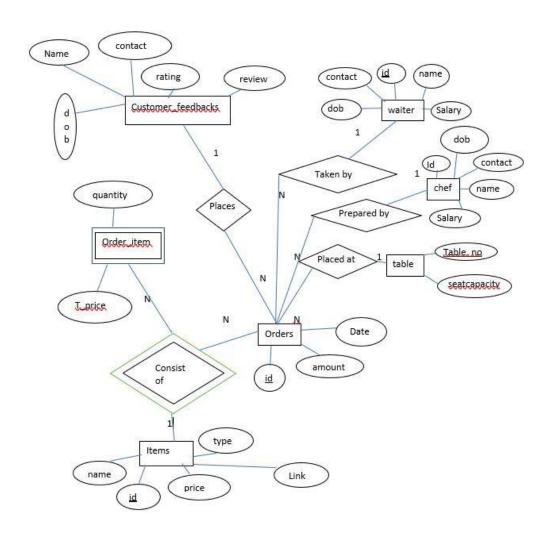
#### 3. <u>LITERATURE SURVEY</u>

A digitalised menu completely revolutionizes the customer's dining experience. Existing methods are a bit slower and sometimes inefficient which sometimes results in the dissatisfaction of the customer which is bad

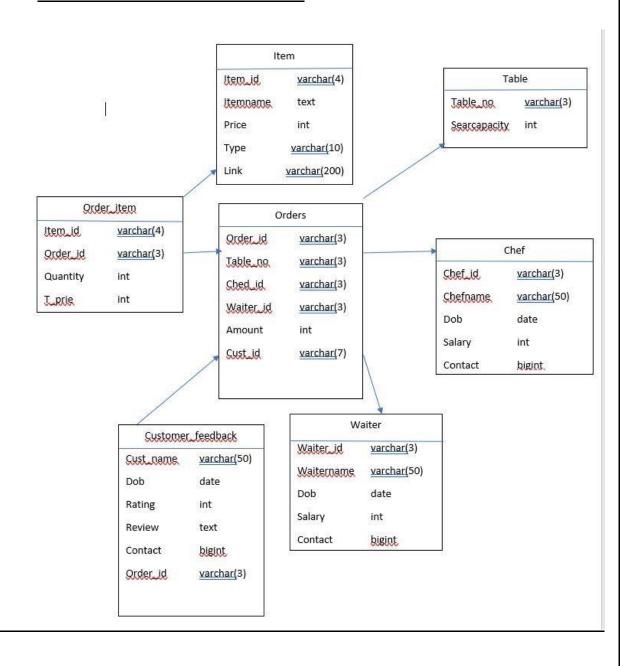
for the business . Our project makes the process a lot easy and fast as compared to the pen paper method used . Instead of going through a long menu we can just swipe , flip and tap to order our favourite dishes . Our main aim is to increase the efficiency of the food ordering , reduce human errors and provide high quality service to the customers of the restaurants .

# 4. DESIGN OF THE DATABASE

#### 4.1. ER DIAGRAM



#### 4.2. ER TO RELATION SCHEMA



#### 5. <u>IMPLEMENTATION</u>

#### 5.1 INTRODUCTION

This part details the various technologies used in the development of the restaurant management system including the programming languages used for the database and connection. There are certainly a number of npm packages we have installed in order to make our website fully functional. We have connected our frontend and backend part, completed the setup of the server and have added a database to store all the information.

#### 5.2 **IMPLEMENTATION**

We have implemented the frontend part of our website using html, css, bootstrap, tailwind css, and tailblocks.

In order to make the frontend dynamic, we have used jQuery and also some google apis for adding search blocks i.e. filters in forms.

For the database, we have used mysql RDBMS with mysql 8.0 workbench.

Creation of so many different routes i.e. different webpages, extraction of data (GET), uploading data (POST) we have used FLASK.

Last but not the least, we have used the mysql\_db library in flask to connect to the database and running queries.

For now, we have kept localhost as our server. Phpmyadmin can be used as an alternative to this.

#### 6. SNAPSHOTS AND NORMALIZATION

#### 6.1. NORMALIZATION

Our database contains these 7 tables

All the above tables are in BCNF NORMAL FORM (i.e) the LHS of each relation in the database is either a Super Key or a Candidate Key.

chef table:-

```
mysql> describe chef;
 Field
            I Type
                           | Null | Key | Default | Extra
 chef_id
            | varchar(3)
                             NO
                                    PRI |
 chef_name | varchar(20)
                             YES
                                           NULL
 dob
              date
                             YES
                                           NULL
 salary
              int
                             YES
                                           90000
 contact
                             YES
              bigint
                                           NULL
                             YES
 age
              int
                                           NULL
 rows in set (0.01 sec)
```

R( chef\_id, chef\_name, dob, salary, contact, age)

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### item table:-

```
mysql> describe items;
 Field
                           Null | Key | Default | Extra
             Type
 item id
             varchar(4)
                            NO
                                   PRI
                                         NULL
             varchar(25)
 itemname
                            NO
                                         NULL
 price
             int
                            NO
                                         NULL
             varchar(25)
 type
                            YES
                                         VEG
 link
             text
                            YES
                                         NULL
5 rows in set (0.00 sec)
```

R( item\_id, price, link, type, item\_name)

item\_id is the candidate key item\_id ----
> price item\_id -----> type item\_id

----> link item\_id -----> item\_name

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### order\_item table:-

R( order\_id, item\_id, quantity, t\_price ) order\_id

and item\_id together form the candidate key.

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### orders table:-

```
ysql> describe orders;
 Field
            Type
                         | Null | Key |
                                       Default |
 order id
             varchar(4)
                           NO
                                  PRI
 date
             date
                           NO
                                        NULL
 table_no
             varchar(3)
                           NO
                                  MUL
                                  MUL
 chef id
             varchar(3)
                           NO
                                        NULL
 waiter id
             varchar(3)
                           NO
                                  MUL
                                        NULL
 amount
             int
                           NO
                                        NULL
 rows in set (0.02 sec)
```

R( order\_id, date, table\_no, chef\_id, waiter\_id, amount )

```
order_id is the candidate key order_id ----> table_no

order_id ----> date order_id ----> chef_id

order_id ----> waiter_id order_id ----> amount
```

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### tables table:-

R( Table\_No, seat\_capacity)

Table\_No is the candidate key

Table\_No ----> seat\_capacity

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### waiter table:-

```
mysql> describe waiter;
                            | Null | Key | Default | Extra
 waiter_id
              | varchar(3)
                            I NO
 waiter_name | varchar(20) | YES
               date
                              YES
 salary
                int
                              YES
 contact
               bigint
                              YES
               int
                              YES
                                            NULL
 rows in set (0.01 sec)
```

R( waiter\_id, waiter\_name, dob, salary, contact, age)

waiter\_id is the candidate key

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### customer feedback table:-

Field	Type	Null	Key	Default	Extra
order_id	varchar(4)	NO NO	MUL	NULL	
cust_name	varchar(50)	YES		NULL	
dob	date	YES		NULL	
rating	int	YES		NULL	
review	text	YES		NULL	
contact	bigint	YES	ľ	NULL	ľ

R( cust\_name, contact\_no, dob, rating, review, order\_id )

The Table is in BCNF as it is Third Normal Form and the LHS of each functional dependency is a Candidate key.

#### 6.2. SNAPSOTS OF THE CODE

**Connectivity Code** 

```
from flask import Flask, render_template, request, redirect, url_for
      from flask_mysqldb import MySQL
      import datetime
      import yaml
     app = Flask(__name__)
     db = yaml.load(open('db.yaml'))
     app.config['MYSQL_HOST'] = db['mysql_host']
     app.config['MYSQL_USER'] = db['mysql_user']
     app.config['MYSQL_PASSWORD'] = db['mysql_password']
app.config['MYSQL_DB'] = db['mysql_db']
     mysql = MySQL(app)
16
     count item = [101]
     count table = [11]
count chef = [11]
     count waiter = [11]
      count order = [11]
      \underline{n} = [1]
```

```
@app.route('/home')
def home():
    return render_template('home.html')

@app.route('/')
def landing():
    return render_template('index.html')

@app.route('/login', methods=['GET', 'POST'])
def login():
    cur = mysql.connection.cursor()
    if(request.method == 'POST'):
        email = request.form['email']
        password = request.form['password']
        results = cur.execute('''SELECT * FROM login WHERE email = "%s" AND password = "%s"''' % (email, password))
        if(results == 1):
            return redirect('/home')
        else:
            return ('Sorry, Account does not exist')
        else:
            return render_template('login.html')
```

```
mysql.connection.commit()
    cur.close()
    return redirect('/postmenu')
    else:
        cur.execute('''DELETE FROM order_item WHERE item_id = (SELECT item_id FROM items WHERE itemname = "%s")
        ''' % request.form['ordersub'].split('-')[0])
        mysql.connection.commit()
        cur.close()
        return redirect('/postmenu')
else:
        cur.execute('''SELECT itemname, price FROM items ''')
        item_names = cur.fetchall()
        count_order: list !e('''SELECT * FROM orders''') + 11
        count_order[0] = results
        cur.execute(''''SELECT * FROM tables''')
        tableno = cur.fetchall()
        cur.execute(''''SELECT * FROM items WHERE item_id IN (SELECT item_id FROM order_item WHERE order_id = "%s")''' % ('OI'+str(count_order[0])))
        vieworders = cur.fetchall()
        return render_template('postmenu.html', iteminfo1 = iteminfo1, order_id = 'OI'+str(count_order[0]), item_names = item_names,
        tableno = tableno, vieworders = vieworders)
```

```
@app.route('/signup', methods=['GET', 'POST'])
def signup():
    cur = mysql.connection.cursor()
    if(request.method == 'POST'):
        email = request.form['email']
        password = request.form['password']
        repassword = request.form['repassword']
        if(password == repassword):
            cur.execute('''INSERT INTO login VALUES (%s, %s)''', (email, password))
            mysql.connection.commit()
            cur.close()
            return redirect('/')
        else:
            return str('Please type the same password')
    else:
        return render_template('signup.html')
```

```
@app.route('/itemtables', methods=['GET', 'POST'])
tef seeitemstable():
    cur = mysql.connection.cursor()
    if(request.method == 'POST' and request.form['submit'] == 'ADD ITEM'):
        item_id = 'I'+str(count_item[0])
        count_item[0] += 1
        itemname = request.form['Itemname']
       price = request.form['price']
itype = request.form['type']
        link = request.form['link']
        cur.execute('''INSERT INTO items VALUES (%s, %s, %s, %s, %s)''', (item_id, itemname, price, itype, link))
        mysql.connection.commit()
        cur.close()
        return redirect('/itemtables')
    elif(request.method == 'POST' and request.form['submit'] != 'ADD ITEM'):
        cur.execute('''DELETE FROM items WHERE item_id = "%s"''' % request.form['submit'])
        mysql.connection.commit()
        return redirect('/itemtables')
        results = cur.execute('''SELECT * FROM items ORDER BY type DESC''')
        count item[0] = results + 101
        iteminfo = cur.fetchall()
        return render_template('itemtable.html', iteminfo = iteminfo, item_id = 'I'+str(count_item[0]))
```

```
@app.route('/postfeedback', methods=['GET', 'POST'])
def postfeedback():
   cur = mysql.connection.cursor()
   cur.execute('''SELECT order_id FROM orders WHERE order_id NOT IN (SELECT order_id FROM customer_feedback)''')
   order_ids = cur.fetchall()
   if(request.method == 'POST'):
       order id = request.form['order id']
       dob = request.form['dob']
       cust_name = request.form['cust_name']
       day = int(dob.split('-')[0])
       month = int(dob.split('-')[1])
       year = int(dob.split('-')[2])
       rating = request.form['rating']
       review = request.form['review']
       contact = request.form['contact']
       cur.execute('''INSERT INTO customer_feedback VALUES (%s, %s, %s, %s, %s, %s, %s)''', (order_id, cust_name,
       str(day)+'-'+str(month)+'-'+str(year), rating, review, contact))
       mysql.connection.commit()
       cur.close()
       return redirect('/postfeedback')
   return render_template ('postfeedback.html', order_ids = order_ids)
```

```
@app.route('/orderitems', methods=['GET', 'POST'])
def orderitems():
    cur = mysql.connection.cursor()
    cur.execute('''SELECT order_item.order_id, order_item.item_id, itemname FROM order_item, items WHERE order_item.item_id = items.item_id''')
    all ids = cur.fetchall()
    if(request.method == 'POST');
    order_id = request.form['submit'].split('-')[1]
    item_id = request.form['submit'].split('-')[2]
    cur.execute('''DELETE FROM order_item WHERE order_id = "%s" AND item_id = "%s"''' % (order_id, item_id))
    cur.execute('''SELECT SUM(t_price) FROM order_item WHERE order_id = "%s"''' % order_id)
    new_amt = cur.fetchall()[0]
    if(str(new_amt[0]) == 'None'):
        cur.execute('''DELETE FROM orders WHERE order_id = "%s"''' % order_id)
    else:
        cur.execute('''UPDATE orders SET amount = "%s" WHERE order_id = "%s"''' % (new_amt[0], order_id))
    mysql.connection.commit()
    return redirect('/orderitems')
    return redirect('/orderitems.html', all_ids = all_ids)
```

```
def postmenu():
    cur = mysql.connection.cursor()
   cur.execute('''SELECT itemname, link, type FROM items ORDER BY type DESC''')
   iteminfo1 = cur.fetchall()
results = cur.execute('''SELECT * FROM orders''') + 11
    count_order[0] = results
    if(request.method == 'POST'):
    if(request.form['ordersub'] == "COMPLETE ORDER"):
             order_id = 'OI'+str(count_order[0])
             count order[0] += 1
             table_no = request.form['tableno']
total_chef = cur.execute('''SELECT *FROM chef''')
             total_waiter = cur.execute('''SELECT * FROM waiter''')
             total_orders = cur.execute('''SELECT * FROM orders''')

cur.execute('''SELECT chef_id FROM chef WHERE chef_id = "%s"''' % ('C'+str((total_orders) % total_chef + 11)))
             chef_id = cur.fetchall()[0][0]
             cur.execute('''SELECT waiter_id FROM waiter WHERE waiter_id = "%s"'' % ('W'+str((total_orders) % total_waiter + 11)))
             waiter_id = cur.fetchall()[0][0]
             cur.execute('''SELECT SUM(t_price) FROM order_item WHERE order_id = "%s"''' % order_id)
             amount = cur.fetchall()
             d = str(datetime.datetime.now().year) + '-' + str(datetime.datetime.now().month) + '-' + str(datetime.datetime.now().day)
             cur.execute('''INSERT INTO orders VALUES (%s, %s, %s, %s, %s, %s, %s)''', (order_id, d, table_no[:3:], chef_id, waiter_id,
             amount[0][0]))
             mysql.connection.commit()
             n[0] += 1
             cur.close()
        return redirect('/postmenu')
elif(request.form['ordersub'] == "ADD THIS TO ORDER_ITEMS"):
    order_id = 'OI'+str(count_order[0])
             iname = request.form['itemname'].split('-')[0]
             cur.execute('''SELECT item_id from items where itemname = "%s"''' % (iname))
             item_id = cur.fetchall()[0][0]
             quantity = request.form['quantity']
             cur.execute('''SELECT price FROM items WHERE itemname = "%s"'' % (iname))
t_price = int(quantity) * int(cur.fetchall()[0][0])
             cur.execute('''INSERT INTO order_item VALUES (%s, %s, %s, %s, %s)''', (order_id, item_id, quantity, t_price))
             mysql.connection.commit()
```

```
@app.route('/orderstable')
def seeordestable():
    cur = mysql.connection.cursor()
    cur.execute('''SELECT * FROM orders''')
    iteminfo = cur.fetchall()
    return render_template('orders.html', iteminfo = iteminfo)
@app.route('/feedbacktables', methods=['GET', 'POST'])
def seefeedbackstables():
    cur = mysql.connection.cursor()
    if(request.method == 'POST'):
        order_id = request.form['order_id']
        cust_name = request.form['cust_name']
        dob = request.form['dob']
        day = int(dob.split('-')[0])
        month = int(dob.split('-')[1])
year = int(dob.split('-')[2])
        rating = request.form['rating']
        review = request.form['review']
        contact = request.form['contact']
        cur.execute('''INSERT INTO customer_feedback VALUES (%s, %s, %s, %s, %s, %s)''', (order_id, cust_name,
        str(day)+'-'+str(month)+'-'+str(year), rating, review, contact))
        mysql.connection.commit()
        cur.close()
        return redirect('/feedbacktables')
        results = cur.execute('''SELECT * FROM customer_feedback''')
        iteminfo = cur.fetchall()
        cur.execute('''SELECT order_id FROM orders ORDER BY order_id''')
        show_order_id = cur.fetchall()
        return render_template('feedbacks.html', iteminfo = iteminfo, show_order_id = show_order_id)
```

```
@app.route('/cheforderstable')

def seecheforderstable():
    cur = mysql.connection.cursor()
    cur.execute('''SELECT chef_id, date, orders.order_id, itemname, quantity FROM orders, items, order_item

WHERE orders.order_id = order_item.order_id AND order_item.item_id = items.item_id''')

iteminfo = cur.fetchall()
    return render_template('orderchef.html', iteminfo = iteminfo)

@app.route('/waiterorderstable')

def seewaiterorderstable():

cur = mysql.connection.cursor()
    cur.execute('''SELECT waiter_id, date, orders.order_id, itemname, quantity, table_no FROM orders, items, order_item

WHERE orders.order_id = order_item.order_id AND order_item.item_id = items.item_id''')

iteminfo = cur.fetchall()
    return render_template('orderwaiter.html', iteminfo = iteminfo)

if __name__ == '__main__':
    app.run(debug = True)
```

```
@app.route('/tablestables', methods=['GET', 'POST'])
def seetablestables():
    cur = mysql.connection.cursor()
    if(request.method == 'POST' and request.form['submit'] == 'ADD TABLE'):
         table_no = 'T'+str(count_table[0])
         count_table[0] += 1
        seat_capacity = request.form['seat_capacity']
cur.execute('''INSERT INTO tables VALUES (%s, %s)''', (table_no, seat_capacity))
         mysql.connection.commit()
         cur.close()
         return redirect('/tablestables')
    elif(request.method == 'POST' and request.form['submit'] != 'ADD TABLE'):
    cur.execute('''DELETE FROM tables WHERE table_no = "%s"''' % (request.form['submit']))
         mysql.connection.commit()
         return redirect('/tablestables')
         count_table[0] = results + 11
         iteminfo = cur.fetchall()
         return render_template('tables.html', iteminfo = iteminfo, table_no = 'T'+str(count_table[0]))
```

#### FEW SCREENSHOTS OF THE FRONTEND CODE

```
cspan class="glyphicon glyphicon-earphone"></span>
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410-612-5988

410-612-5988

410-612-612-612-612-612-612-61
```

#### UPON STARTING THE SERVER I.E. ON RUNNING THE FLASK CODE

PS C:\Users\ANCHIT\OneDrive\Desktop\DBMS\_RES> & C:/Users/ANCHIT/AppData/Local/Programs/Python/Python38-32/python.exe c:/Users/ANCHIT/OneDrive/Desktop/DBMS\_RES/app.py:8: YAMLLoadwarning: calling yaml.load() without Loader=... is deprecated, as the default Loader is unsafe. Please rea db = yaml.load() etc., as the default Loader is unsafe. Please rea db = yaml.load(open'db.yaml'))
\* Serving Flask app "app" (lazy loading)
\* Environment: production

MANNING: This is a development reacher. WARNING: This is a development server. Do not use it in a production deployment.

\*Be a production WSGI server instead.

\*Debug mode: on

\*Restarting with stat

\*C:\Users\NYCHIT\OneDrive\Desktop\DBMS\_RES\app.py:8: YAMLLoadWarning: calling yaml.load() without Loader=... is deprecated, as the default Loader is unsafe. Please read https://msg.pyyaml.opg/load for full details.

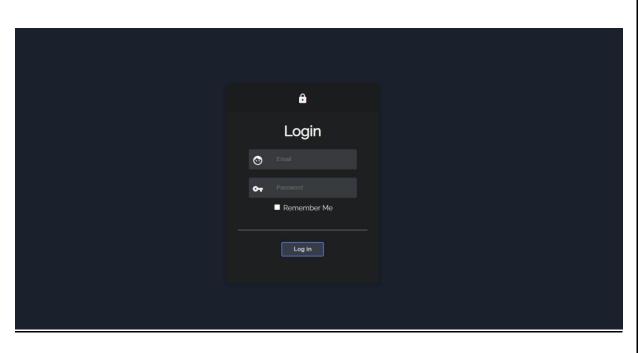
\*db = yaml.load(open('db.yaml'))

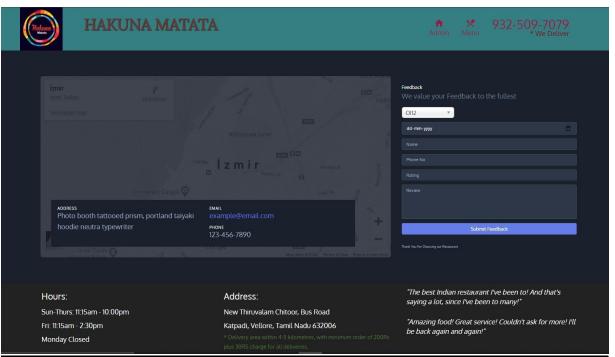
\*Debugger PIN: 440-264-077

\*Running on http://127.0.0.1:5900/ (Press CTRL+C to quit)

#### Website Screenshots









#### HAKUNA MATATA





#### **MENU**





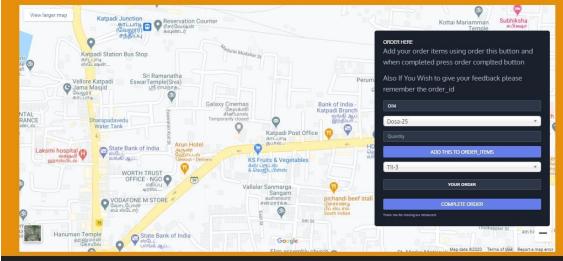












#### Hours:

Sun-Thurs: 11:15am - 10:00pm Fri: 11:15am - 2:30pm Monday Closed

#### Address:

New Thiruvalam Chitoor, Bus Road Katpadi, Vellore, Tamil Nadu 632006

"The best Indian restaurant I've been to! And that's saying a lot, since I've been to many!

"Amazing food! Great service! Couldn't ask for more! I'll be back again and again!"

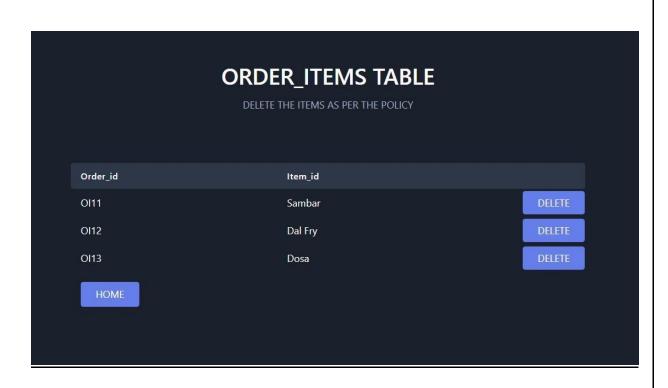
© Copyright Hakuna Matata 2014

# The Best Restaurant Manager Manage your restaurant in seconds. The easiest and fastest way to manage database. No prior knowledge or training required. MENU CARD WAITERS CHEF FEEDBACKS ITEMS WAITER TABLE CHEF TABLE CHEF TABLE CORDER ITEMS ASSIGNED ORDERS CORDERS ASSIGNED ORDERS TABLES IN RESTRAUNT CORDER TABLE VIEW TABLES IN RESTRAUNT

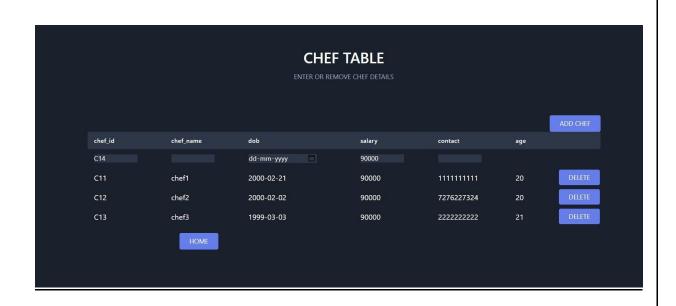
### **ITEMS TABLE**

ENTER YOUR MENU CARD ITEMS

				ADD ITEM
Item_id	Itemname	Price	Туре	Link For Image
I108			VEG ~	
1101	Dosa	25	VEG	DELETE
I102	Sambar	15	VEG	DELETE
1105	Dal Fry	20	VEG	DELETE
1106	Aloo Biryani	130	VEG	DELETE
I103	Chicken Korma	100	NON VEG	DELETE
1104	Roast Chicken	150	NON VEG	DELETE
1107	Chicken Biryani	180	NON VEG	DELETE
НОМЕ				



# ORDERS TABLE THIS WILL SHOW ALL THE CONNECTING DETAILS order\_id Date Table no Chef\_id Waiter\_id Amount OI11 2020-11-01 T11 C11 W11 45 ● OI12 2020-11-01 T11 C12 W12 60 ● OI13 2020-11-01 T11 C13 W13 100 ● HOME



# ORDERS ASSIGNED TO CHEF TABLE

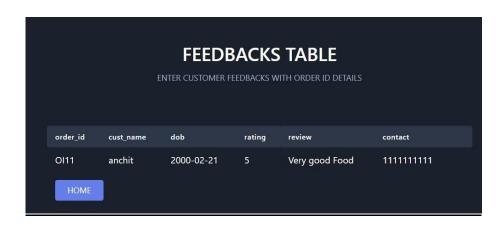
which chef have to prepare which order, is displayed here

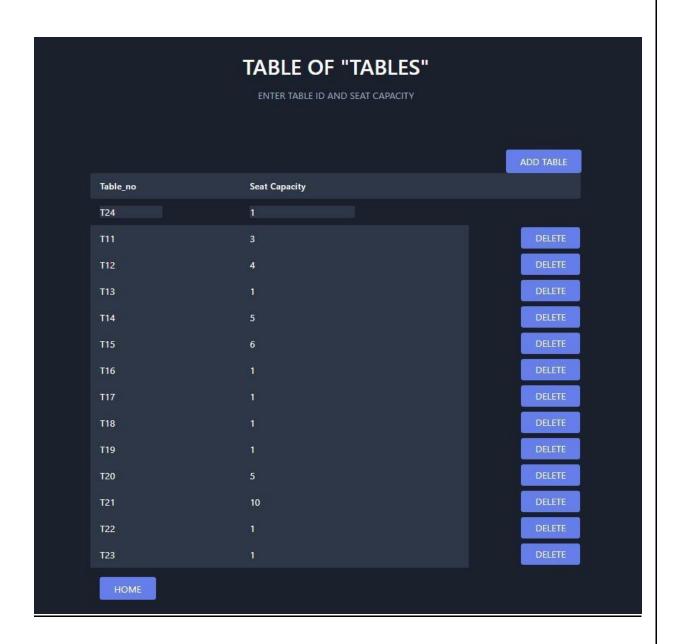
chef_id	Date	order_id	Order_items	quantity
C11	2020-11-01	Ol11	Sambar	3
C12	2020-11-01	OI12	Dal Fry	3
C13	2020-11-01	OI13	Dosa	4

HOME



			D TO WAI TO WHICH TABLE EVE		
waiter_id	Date	order_id	Order_items	quantity	table_no
W11	2020-11-01	Ol11	Sambar	3	T11
W12	2020-11-01	OI12	Dal Fry	3	T11
W13	2020-11-01	OI13	Dosa	4	T11
НОМЕ					





#### 6.3. BRIEF SUMMARY OF THE CODE WITH FEW

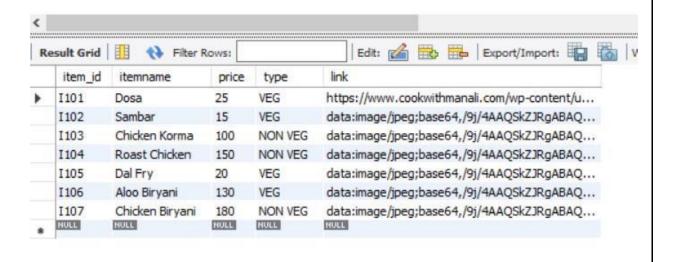
#### **QUERIES**

- All queries are written inside flask.
- In flask we have made routes (web pages) inside which we have defined https post and get requests.

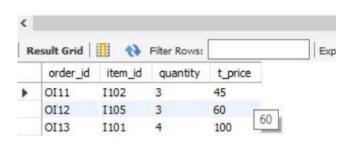
- We have used insert, nested, join, delete and update queries in our project.
- We have also developed such an algorithm in query that chefs and waiters will be assigned in round robin fashion.

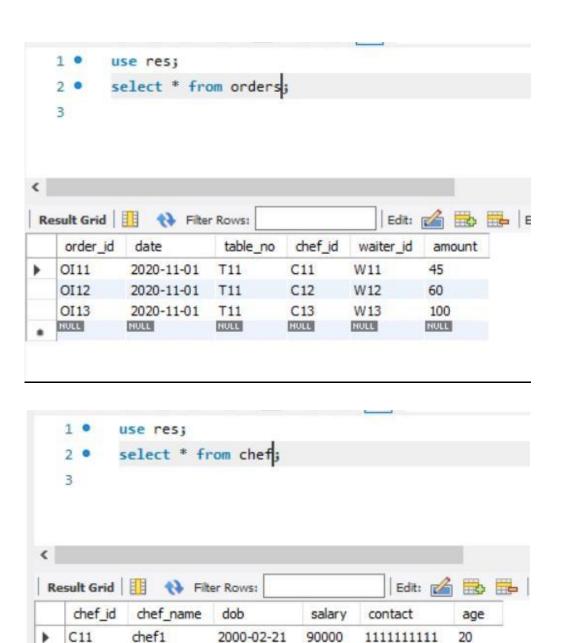
#### SOME EXAMPLES

```
2 • select * from items;
3
```









2000-02-02

1999-03-03

NULL

90000

90000

NULL

7276227324

222222222

NULL

20

21

NULL

C12

C13

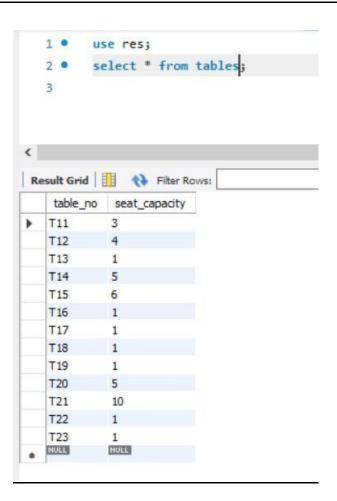
NULL

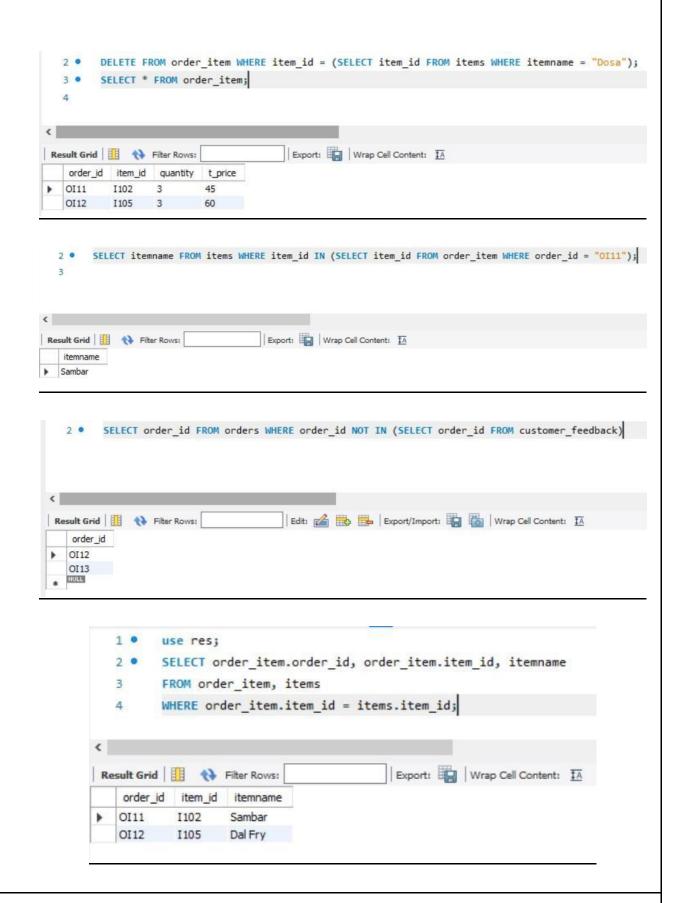
chef2

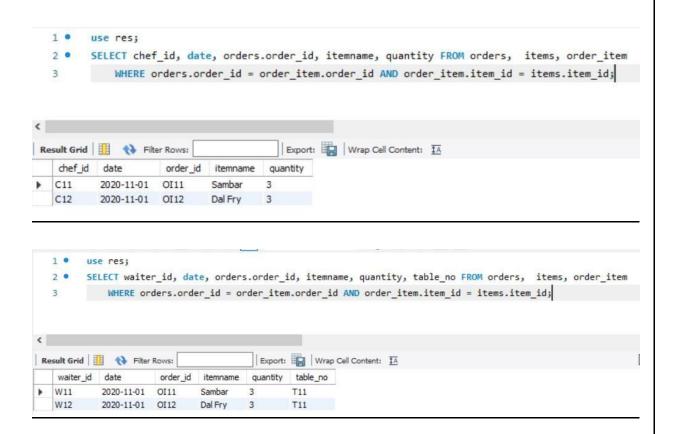
chef3

HULL

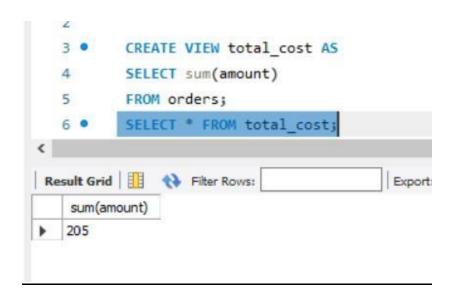
```
1 • use res;
        select * from waiter;
  2 .
  3
Edit: Export/I
   waiter_id waiter_name
                       dob
                                  salary
                                         contact
                                                    age
  W11
           waiter1
                       2000-02-21
                                 90000
                                        11111111111
                                                    20
  W12
           waiter2
                       2000-02-22
                                 90000
                                        222222222
                                                    20
  W13
           waiter3
                       1999-02-02
                                 90000
                                        3333333333
                                                    21
  NULL
           HULL
                      NULL
                                 HULL
                                        NULL
                                                   NULL
```

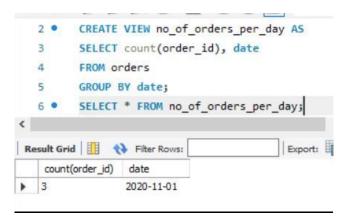


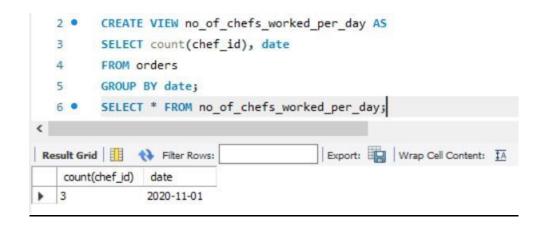


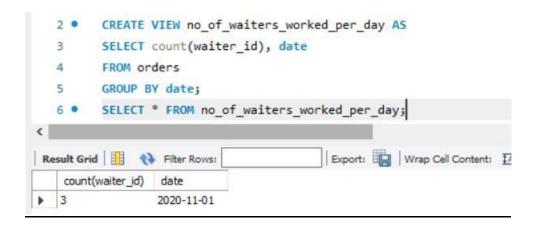


#### **VIEWS**









#### 7. CONCLUSION

As the restaurant industry is growing bigger day by day, the fastness in the process of ordering and delivering the food has become a major issue in the success of the restaurant. The faster the service is, the more satisfied the customer is. When we use the old conventional methods, the process becomes slow, even if the difference is small, it affects largely on the business. So to compete with the growing industry and to survive we have to make the process as fast as it can be. Hence our project is a few steps closer to make the restaurant fast and successful. Our project makes the process a lot easier and less confusing as compared to sophisticated softwares used, hence making the process faster and more efficient.

#### 8. FUTURE WORK

Innovation never stops, we can add some features like adding complete authorization to the website, making it available for multiple restaurants, including machine learning algorithms like sentimental analysis to feedbacks to yield more honest reviews, add options to download the reports in pdf form and mailing it to whosoever reviews the restaurant, and lastly, add payment portal which will make the payment faster and way more convenient.

But with respect to DBMS, I think we have done a very good job.