**FOOD ORDERING SYSTEM**

***A mini project report submitted by***

**AVEEK DEY (URK17CS302)**

***in partial fulfillment for the award of the degree***

***of***

**BACHELOR OF TECHNOLOGY**

***in***

**COMPUTER SCIENCE AND ENGINEERING**

***under the supervision of***

**Mr. D .SHIBIN, M.E., Assistant Professor**

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**DEPARTMENT OF COMPUTER SCIENCE ANDENGINEERING**

**KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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**Karunya Nagar, Coimbatore - 641 114, INDIA**

**MAY 2019**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BONAFIDE CERTIFICATE**

This is to certify that the project report entitled, “Food Ordering System” is a bonafide record of Mini Project work done during the academic year 2019-2020 by

**AVEEK DEY (Reg. No: URK17CS302)**

in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Karunya Institute of Technology and Sciences.

Submitted for the Viva Voce held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Coordinator Head of the Departm**

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I would also like to thank all my friends and my parents who have prayed and helped me during the project work.

**ABSTRACT**

In this project FOOD ORDERING PROGRAM using Python I created a program in python for using it as a I used the Python language which I thought to be the suitable language for designing any application. The program have the registration and login for the users at first. Then it allows the users to see all the restaurants available and then allows the user to place the food order. I have used database in my project to store the name, email address, phone, city. I have used MySQL commands for writing data into the database and also for retrieving them for future use.

The user will use his username and password to login to the application. They will have options like choosing restaurants followed by choosing food and then ordering the food or logout of the account .All the data will be stored in the database and will be retrieved back when necessary.

This project is a combination of Python programming language along with a little exposure of database .It will use the cross platform web server solution stack package XAMPP for accessing the data in local machine. We can further stretch it to the online database so we can access the application from anywhere in the world. There is no particular security associated with it as this is a very low level application. But still for some security the database is password protected for blocking any unwanted changes from happening.

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**CHAPTER 1**

**INTRODUCTION**

My project is based on food ordering system. In our generation era, computer has become a key component to our daily life because of the advancement technology of World Wide Web that becomes an internet that allow each and every user connected with their computer for information sharing throughout the whole world. A lot of fast food industry applies a system known as food Ordering System to assist their business processes. Implementing this system can help fast food industry to solve the problem that they face while using the traditional food ordering processes.

The system greatly simplifies the food ordering process for both customer and restaurant compare to the past. Customers access to the account and can choose the restaurant and food that they prefer from the menu display then customers will be given an invoice receipt when the food is ordered.

On the other hand, the system also greatly lightens the work load on the restaurant’s end. Once customers have place an order via the internet, the data will send to the restaurant database and place in a queue in real-time. In addition, the data will be display on the computer screen along with the corresponding option. It allow restaurant employee easily manage the orders sequentially, produce the necessary item with a minimal delay and help reduce human error.

It is known globally that, in today’s market, it is extremely difficult to start a new small-scale business and live-through the competition from the well-established and settled owners. In fast paced time of today, when everyone is squeezed for time, the majority of people are finicky when it comes to placing a food order. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, price and extremely simplified navigation for the order . Due to the great increase in the awareness of internet and the technologies associated with it, several opportunities are coming up on the web. So many businesses and companies now venture into their business with ease because of the internet. One of such business that the internet introduced is an online food ordering system. In today’s age of fast food and take out, many restaurants have chosen to focus on quick preparation and speedy delivery of orders rather than offering a rich dining experience. So, the system designed in this project will enable customers go online and place order for their food. This program is mainly based on online food ordering system originally designed for use in restaurants, but just as applicable in any food delivery industry. The main advantage of this system is that it greatly simplifies the ordering process for both the customer and the restaurant. The system also greatly lightens the load on the restaurants end, as the entire process of taking orders is automated.

**1.1 OBJECTIVE**

This study lays out a framework for a new system to be developed and brought to the market for maximum use and where users can log on to the program and make a selection of whatever restaurant and food they like and subsequently pay at the time of the delivery. The following are the objectives this would bring:

1. The products and services offered would provide the users with all the different categories of available products that they can choose and select from.

2. This will provide a user friendly environment between the customer and employee thus increasing the efficiency of the food ordering system.

3. There will also be an online feedback from the users .

4. It will also help for easy retrieval of orders made by the customers.

**1.2 SIGNIFICANCE OF STUDY**

In view of the rapid development of computer technology in almost all the fields of operation and its use in relation to information management, it has become important to look into the development of online ordering system for firms to meet up with demands of the customers. Therefore, the food ordering and delivery system will help customers and management to:

1. Advertise available foods in their company .

2. Reduce the workload in the present system .

3. Reduce time wasted in data processing .

4. Create a platform for online purchase and delivery of fast food .

5. Keep accurate record on purchased order .

**1.3 MOTIVATION**

The motivation for designing this application came because I personally do not like waiting for long in the restaurant or to have to call store to place an order especially during the peak lunch or dinner hours. Moreover, I value recent learning about the python Programming language as well as seeing how powerful and dynamic they are when it comes to designing programs. The languages used to build this application are python at client facing whereas MYSQL database at the back-end because I found them to be extremely useful while working on the technologies.

1.4 **STATEMENT OF PROBLEM**

As industries are fast expanding, people are seeking for more ways to purchase products with much ease and still maintain cost effectiveness. The vendors need to purchase the products in order to sell to end users. The manual method of going to their local food sales outlets to purchase food is becoming obsolete and more tasking. Food

can be ordered through the internet and payment made without going to the restaurant or the food vendor. So there is need for a wide range of publicity and enabling direct order, processing and delivering of food through online system. For this system, there will be a system administrator who will have the rights to enter the menu with current prevailing prices.

**1.5 OVERVIEW OF THE PROJECT**

This project works is aimed for developing an efficient food ordering system that can be used in the food & beverage (F&B) industry which can help the restaurants to quickly and easily manage daily operational task as well as improve the dining experience of customers. It is believed that still have a lot of restaurants are using the traditional method for food ordering processes. By using the traditional method, it arise a lot of human error while the restaurant’s employees deal with large amount of customers, this issue will did a great impact to the restaurant in terms of profitability. Thus, this project is to propose a suitable food ordering system for F&B industry to solve the problem that mentioned above. The system will become an important tools use for restaurant to improve the management aspect by utilizing computerized system to coordinate each and every food ordering system instead of traditional method. In addition, it can also provide efficiency for the restaurant by reducing time consuming, minimize human errors and providing good quality customer service. In terms of the integrity and availability of the system provided, it can be concluded that this system is a suitable solution for the F&B industry.

**1.6 CHAPTER WISE SUMMARY**

**Chapter 1** gives you about the introduction about the project.

**Chapter 2** gives you the layout about the project design and also the diagrams.

**Chapter 3** gives you an idea about the description of the different modules being used in this project.

**Chapter 4** gives the test results and verification of the project.

**Chapter 5** gives an idea about the conclusion and further scope of the project.

**CHAPTER 2**

**ANALYSIS AND DESIGN**

**2.1 FUNCTIONAL REQUIREMNT**

Login Management

1. The user shall be easily registered so that he/she can use it with ease.
2. The user shall not face any problem on login into his account.

Order Management

1. The system shall let the user to place an order with convenience.
2. The system shall prompt and ask user to verify the order that have been placed.
3. The system shall allow user to add in extra remark regarding the order.
4. The system shall allow user to void the order that mistakenly placed or exceptional case occur.

Billing Management

1. The system shall retrieve data that needed and arrange in a meaningful structure then print for user as a reference.
2. The system shall let user to choose the payment channel that they wish to use.

**2.2 NON-FUNCTIONAL REQUIREMENT**

All of the application data is stored in a MYSQL database, and therefore another database need not to be installed on the host computer. The server hardware can be any computer capable of running database servers and handling the expected traffic.

Operational Requirements

1. The system should operate in Window platform environment.
2. The system should prompt user to make a backup at the end of the operational day.

Performance Requirements

1. The system should let user to place an order anytime.
2. The system should complete perform the billing process in a short period of time.

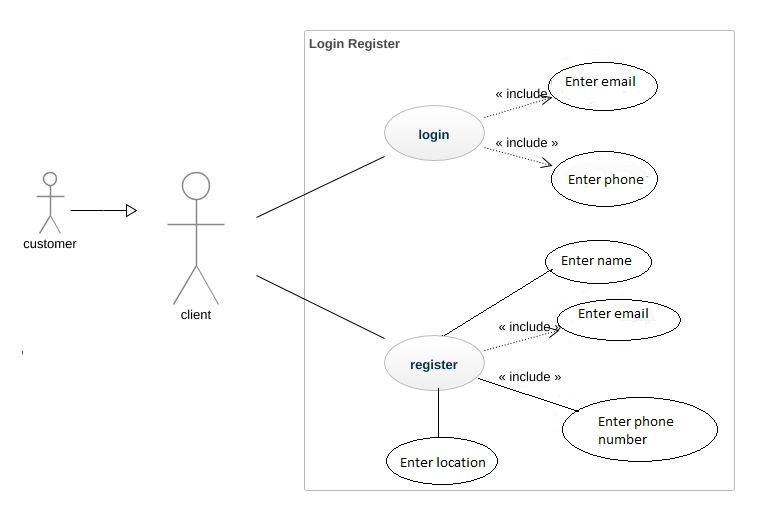
Security Requirements

1. The system should validate the email and phone number in order to login to the account.

Usability Requirement

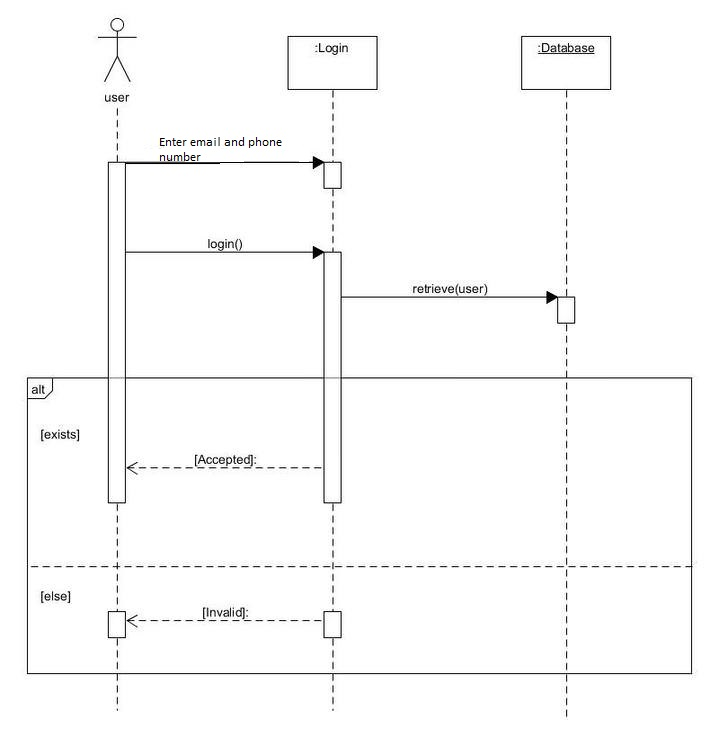
1. The system should have an easy understandable user interface that deal with the user.
2. The system should let user easy to understand the functionality of each modules.
   1. **USE CASE DIAGRAM FOR LOGIN**

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.



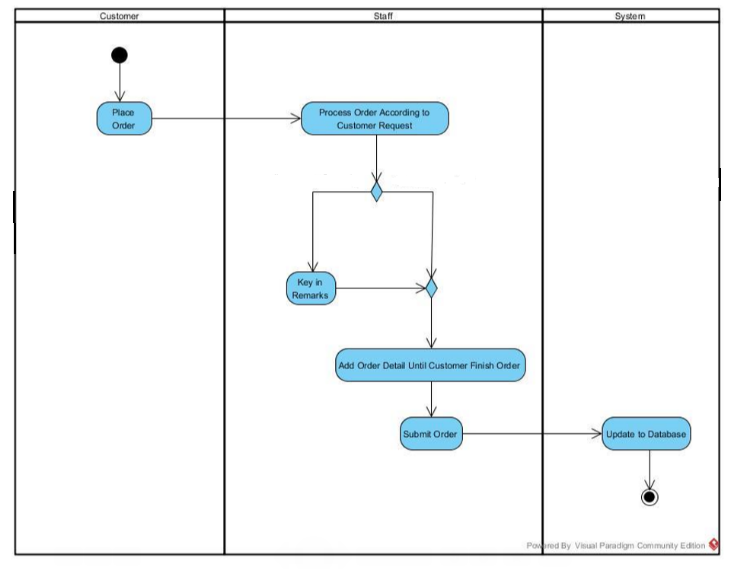
**2.4 SEQUENCE DIAGRAM FOR LOGIN**

Sequence diagrams describe how and in what order the objects in a system function. These diagrams are widely used by businessmen and software developers to document and understand requirements for new and existing systems.



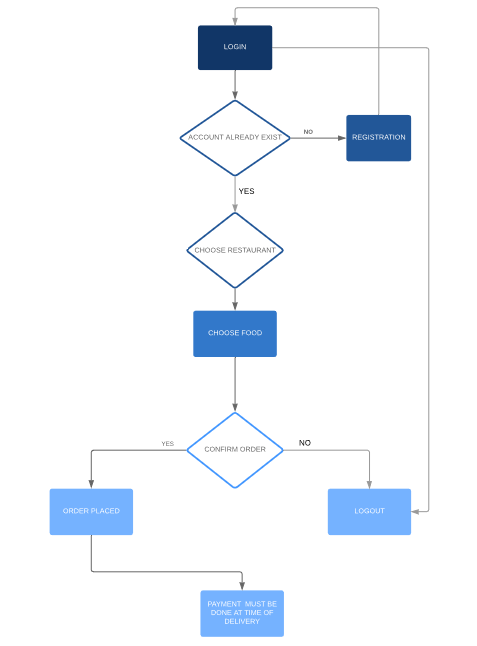
* 1. **ACTIVITY DIAGRAM FOR FOOD ORDERING**

Activity diagram is another important behavioral diagram in [UML](https://en.wikipedia.org/wiki/Unified_Modeling_Language) diagram to describe dynamic aspects of the system. Activity diagram is essentially an advanced version of flow chart that modeling the flow from one activity to another activity.

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**2.6 UML DIAGRAM**

UML, short for Unified Modeling Language, is a standardized modeling language consisting of an integrated set of diagrams, developed to help system and software developers for specifying, visualizing, constructing, and documenting the artifacts of software systems, as well as for business modeling

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**CHAPTER 3**

**IMPLEMENTATION**

**3.1 MODULES DESCRIPTION**

There are modules in this project and those are as follows : -

Initialization:

This module initialises the program by connecting it with the database. It uses mysql.connector for connecting the database with the program.

Menu:

Program menu contains the Main menu or Home page of the project. It will greet the user with two options either to login or to register. Deciding upon the input which the user is providing the prompt will be taken to the specific section. It will also allow them to quit without doing anything and the rating of the food ordering system by the users.

Registration:

The registration page will ask the details of the person like his name,email,phone number ,location and will store everything in the database. After successfully taking all the details from the user it will write all the data in to the database.

Login:

To login the user after checking for valid email and phone number. First it will ask the email and then the phone number of the account. Then it will match the combination available in the database. If it matches then it will allow the user to login. If the user gives the email wrong or phone number then it will ask again to re-enter the credentials by the users.

User Menu:

The user menu will provide the users’ to see all the possible actions which they can do like viewing order history or by choosing restaurant and then following it to order the food.

Food Order:

The food order will allow the user to order the choosen food to order and thus will generate a invoice receipt.

Order History:

This module will help the user so as to there previous orders that are made.

**3.2 DATABASE SPECIFICATION**

The database system used to implement the back-end of the system is MySql. Access to the system was made possible by the python connector. The database name is zomato and the structure of the data tables in the database are as follows:

1. Feedback

2. Food

3. Order history

4. Restaurant

5. Users

Feedback

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **key** | **Default** |
| Feedback\_id | number | No | primary | Null |
| User\_id | number | No |  | Null |
| rating | number | No |  | Null |

Food

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **key** | **Default** |
| Food\_id | number | No | primary | Null |
| name | varchar | No |  | Null |
| cost | number | No |  | Null |

Order History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **key** | **Default** |
| Order\_id | number | No | primary | Null |
| Food\_id | number | No |  | Null |
| Restaurant\_id | number | No |  | Null |
| User\_id | number | No |  | Null |
| date | date | No |  | Current\_timestamp |

Restaurant

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **key** | **Default** |
| restaurant\_id | number | No | primary | Null |
| name | varchar | No |  | Null |
| rating | number | No |  | Null |
| area | varchar | No |  | Null |

Users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **key** | **Default** |
| user\_id | number | No | primary | Null |
| name | varchar | No |  | Null |
| email | varchar | No |  | Null |
| Phone\_number | number | No |  | Null |
| area | varchar | No |  | Null |

**3.3 TOOLS USED**

**3.3.1 DATABASE**

The proposed system will need a database system to support in order to store the huge amount of data. Database is a systematic collection of data. Databases support storage and manipulation of data. Databases make data management easy. Few examples.can be an online telephone directory would definitely use database to store data pertaining to people, phone numbers, other contact details, etc.MySQL database system will be chosen to support the proposed system because it is well-known open source relational database management system.MySQL ([/ˌmaɪˌɛsˌkjuːˈɛl/](https://en.wikipedia.org/wiki/Help:IPA/English) "My S-Q-L", Also pronounced 'MySequel')[[5]](https://en.wikipedia.org/wiki/MySQL#cite_note-whatismysql-5) is an [open-source](https://en.wikipedia.org/wiki/Open-source_software) [relational database management system](https://en.wikipedia.org/wiki/Relational_database_management_system) (RDBMS).[[6]](https://en.wikipedia.org/wiki/MySQL#cite_note-6) Its name is a combination of "My", the name of co-founder [Michael Widenius](https://en.wikipedia.org/wiki/Michael_Widenius)'s daughter,[[7]](https://en.wikipedia.org/wiki/MySQL#cite_note-7) and "[SQL](https://en.wikipedia.org/wiki/SQL)", the abbreviation for [Structured Query Language](https://en.wikipedia.org/wiki/Structured_Query_Language).MySQL is [free and open-source software](https://en.wikipedia.org/wiki/Free_and_open-source_software) under the terms of the [GNU General Public License](https://en.wikipedia.org/wiki/GNU_General_Public_License), and is also available under a variety of [proprietary](https://en.wikipedia.org/wiki/Proprietary_software) licenses. MySQL was owned and sponsored by the [Swedish](https://en.wikipedia.org/wiki/Sweden) company [MySQL AB](https://en.wikipedia.org/wiki/MySQL_AB), which was bought by [Sun Microsystems](https://en.wikipedia.org/wiki/Sun_Microsystems) (now [Oracle Corporation](https://en.wikipedia.org/wiki/Oracle_Corporation)).[[8]](https://en.wikipedia.org/wiki/MySQL#cite_note-sunacquire-8) In 2010, when Oracle acquired Sun, Widenius [forked](https://en.wikipedia.org/wiki/Fork_(software_development)) the [open-source](https://en.wikipedia.org/wiki/Open-source) MySQL project to create [MariaDB](https://en.wikipedia.org/wiki/MariaDB).Other than that, MySQL database system provides software developer with a client program. By doing so, software developer can interact with the database system with the user friendliness client program and without using the command prompt, at the end it may speed up the development progress.

**3.3.2 PROGRAMMING LANGUAGE**

The proposed system uses python programming language for writing the code or program.Python is an [interpreted](https://en.wikipedia.org/wiki/Interpreted_language), [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), [general-purpose](https://en.wikipedia.org/wiki/General-purpose_programming_language) [programming language](https://en.wikipedia.org/wiki/Programming_language). Created by [Guido van Rossum](https://en.wikipedia.org/wiki/Guido_van_Rossum) and first released in 1991, Python's design philosophy emphasizes [code readability](https://en.wikipedia.org/wiki/Code_readability) with its notable use of [significant whitespace](https://en.wikipedia.org/wiki/Off-side_rule). Its language constructs and [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) approach aim to help programmers write clear, logica

code for small and large-scale projects. Python can be used on a server to create web applications.Python can be used alongside software to create workflows.Python can connect to database systems. It can also read and modify files.Python can be used to handle big data and perform complex mathematics.Python can be used for rapid prototyping, or for production-ready software development.

**3.3.3 WEB SERVER**

This proposed system uses xampp as web server solution. XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP's ease of deployment means a [WAMP](https://en.wikipedia.org/wiki/WAMP) or [LAMP](https://en.wikipedia.org/wiki/LAMP_(software_bundle)) stack can be installed quickly and simply on an operating system by a developer

.

**3.3.4 PYTHON IDLE**

This proposed system uses python idle as a platform to run the python code. IDLE is an integrated development environment for Python, which has been bundled with the default implementation of the language since 1.5.2b1. It is packaged as an optional part of the Python packaging with many Linux distributions. It is completely written in Python and the Tkinter GUI toolkit. IDLE is intended to be a simple [IDE](https://en.wikipedia.org/wiki/Integrated_development_environment) and suitable for beginners, especially in an educational environment. To that end, it is cross-platform, and avoids feature clutter.

**3.3.5 MYSQL CONNECTOR**

MySQL Connector/Python enables Python programs to access MySQL databases, using an API that is compliant with the Python Database API Specification v2.0 (PEP 249). It is written in pure Python and does not have any dependencies except for the Python Standard Library. For notes detailing the changes in each release of Connector/Python, see MySQL Connector/Python Release Notes. MySQL Connector/Python includes support for:

• Converting parameter values back and forth between Python and MySQL data types, for example Python datetime and MySQL DATETIME. You can turn automatic conversion on for convenience, or off for optimal performance. • All MySQL extensions to standard SQL syntax.

• Protocol compression, which enables compressing the data stream between the client and server.

• Connections using TCP/IP sockets and on Unix using Unix sockets.

• Secure TCP/IP connections using SSL.

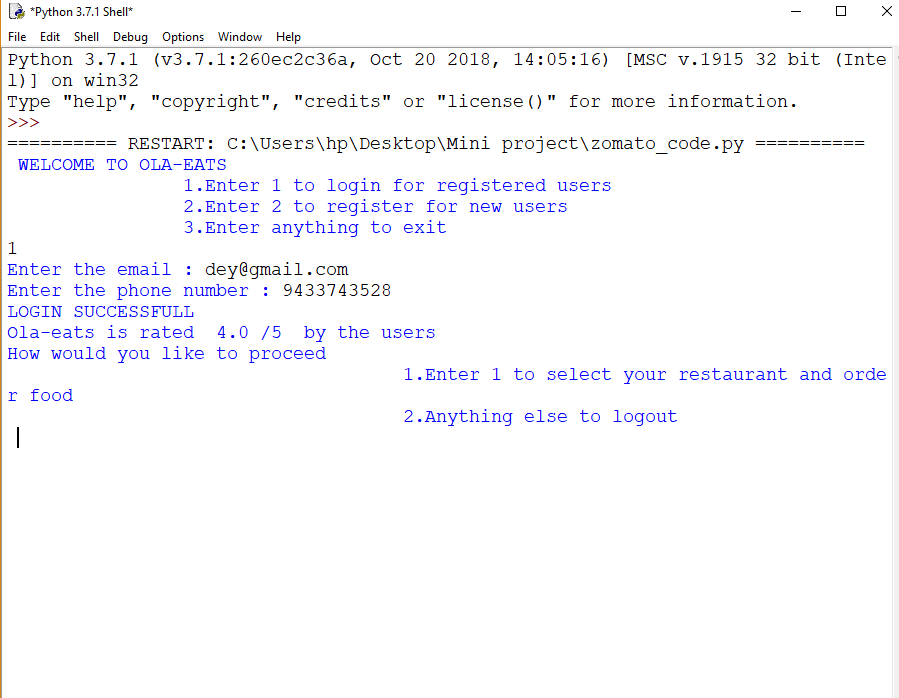
**3.3.6 SYSTEM PLATFORM**

The project is a single platform based system which includes Windows desktop device.

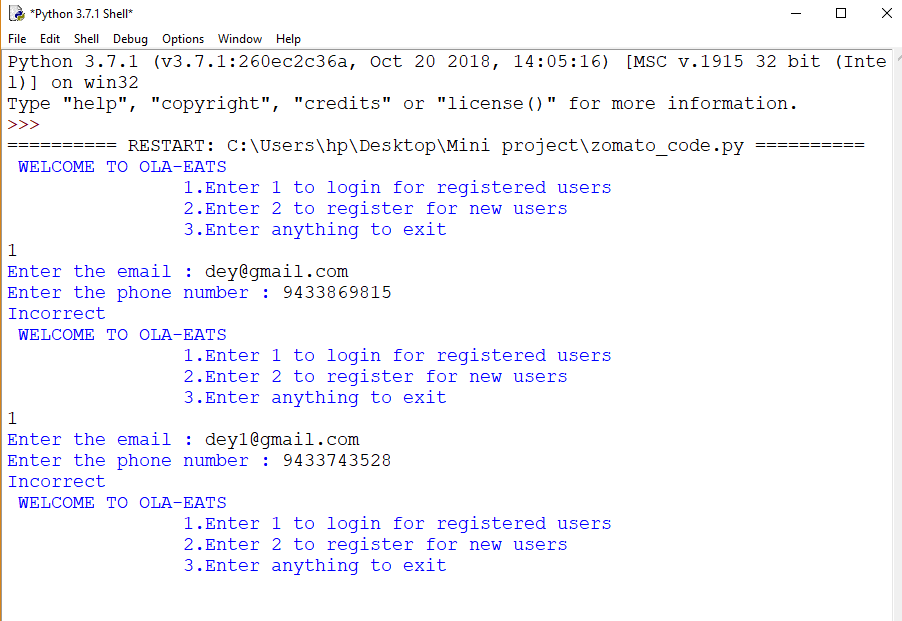
**CHAPTER 4**

**TESTING AND VERIFICATION**

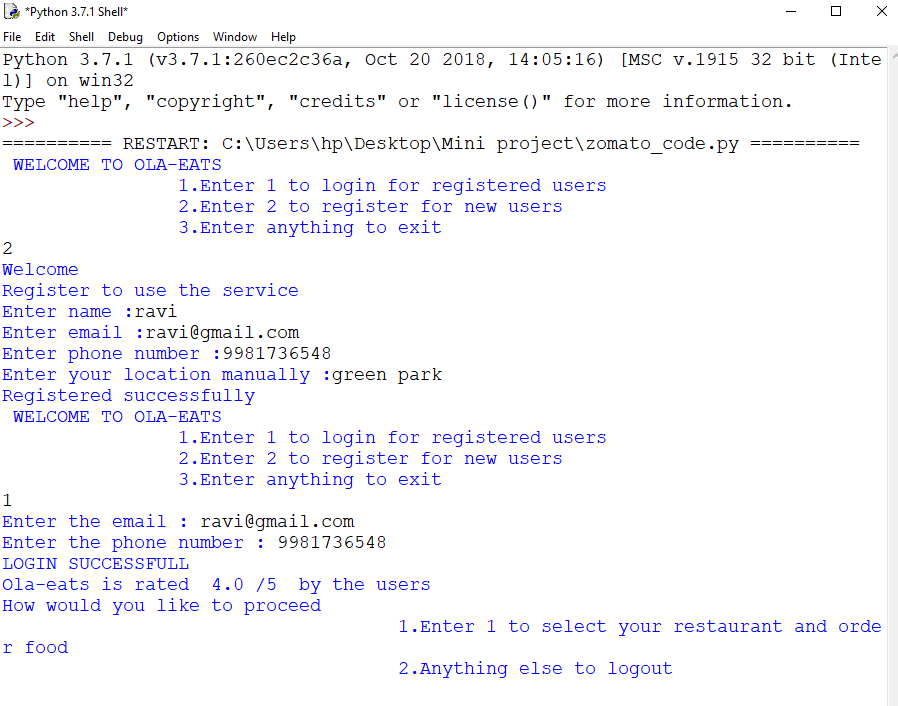
1. Login into the food ordering system by a already registered user.



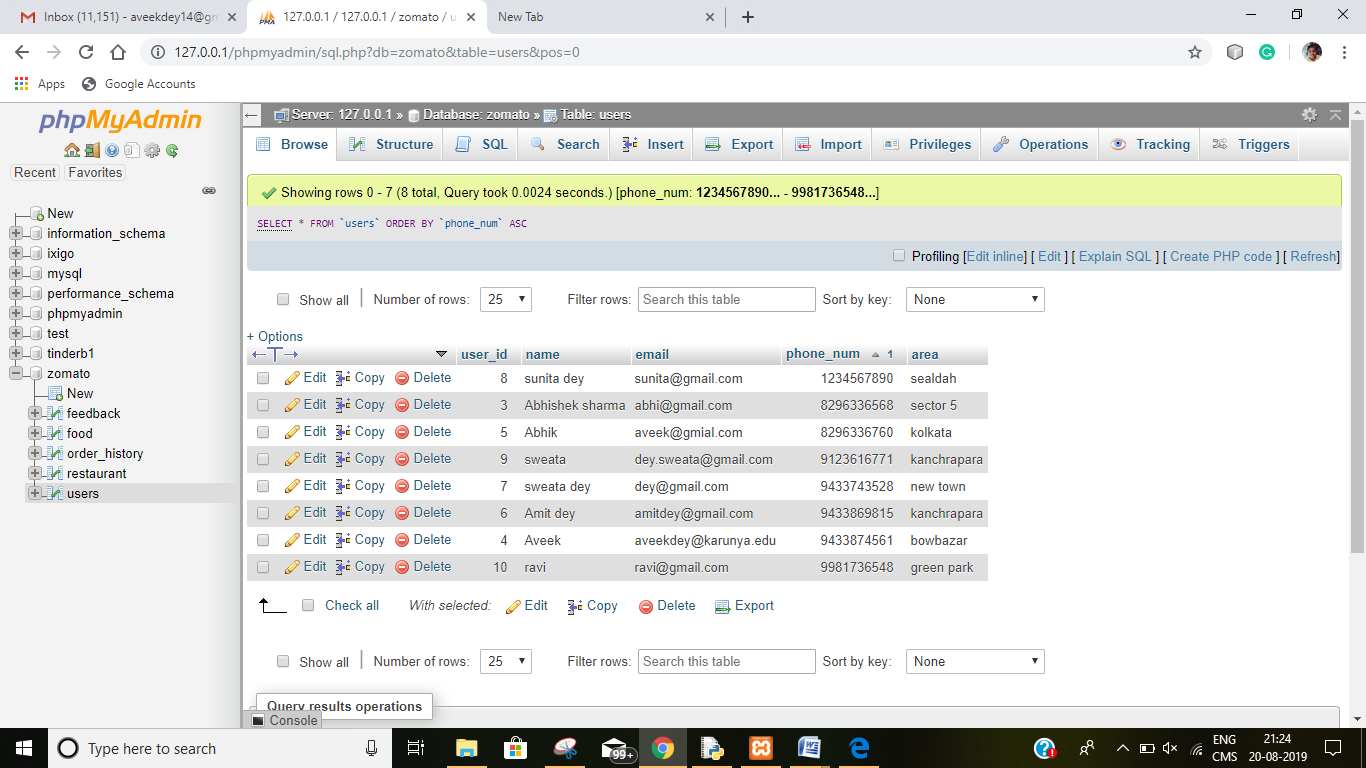
1. Try to log into the food ordering system using wrong phone number and again with wrong email id



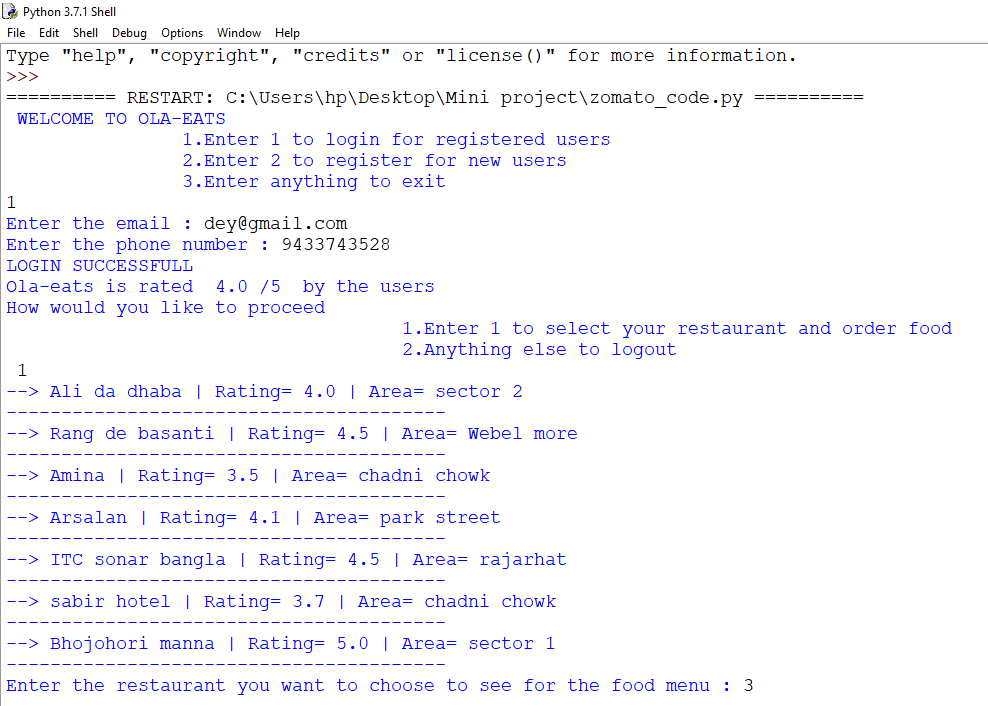
1. Registering a new user and then login into the food ordering system

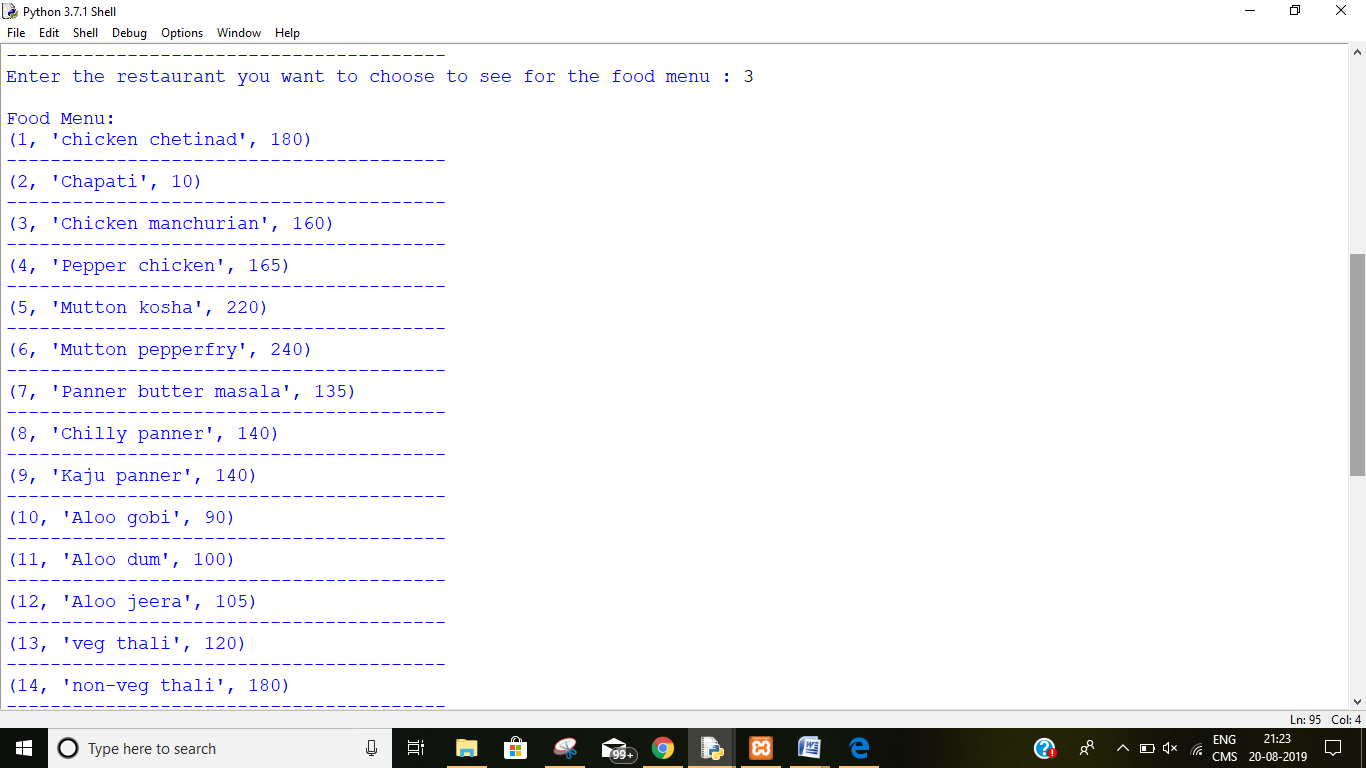


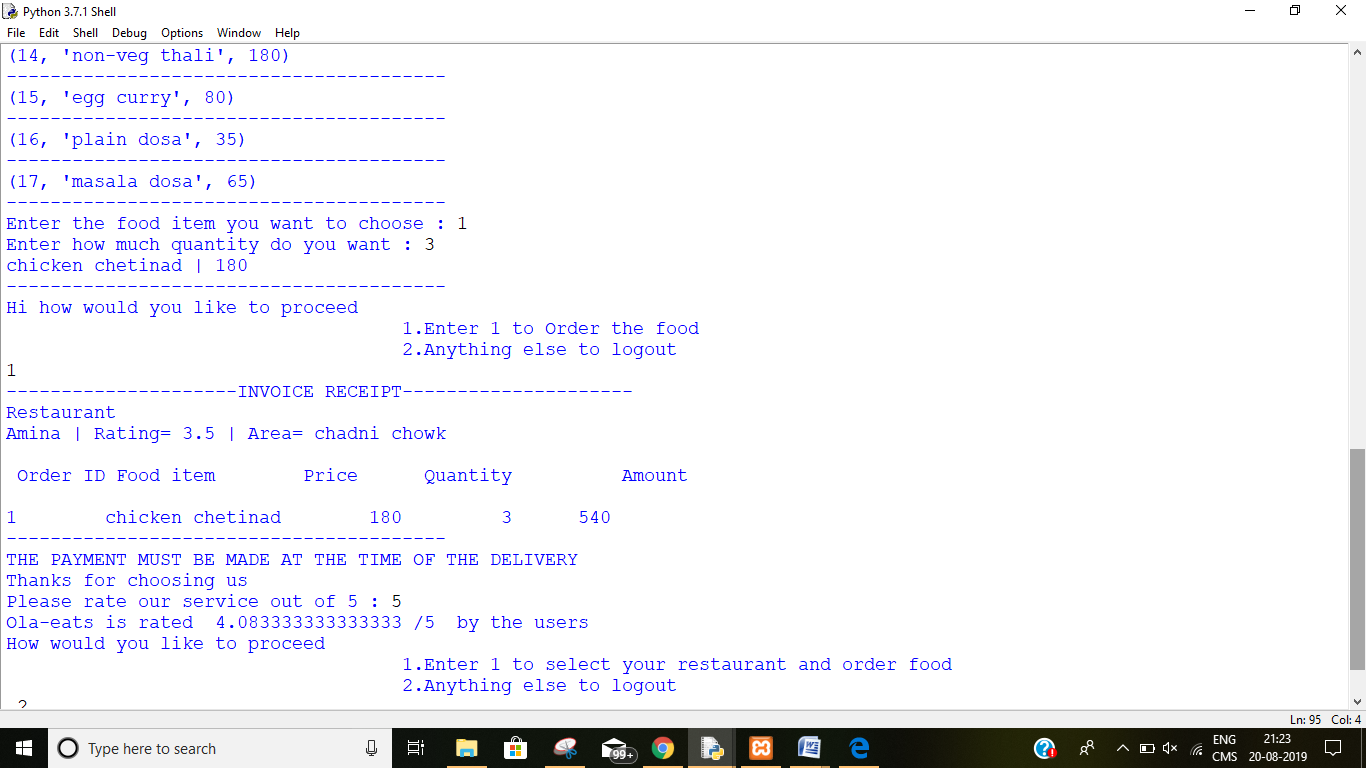
In database ,the entry of the new user

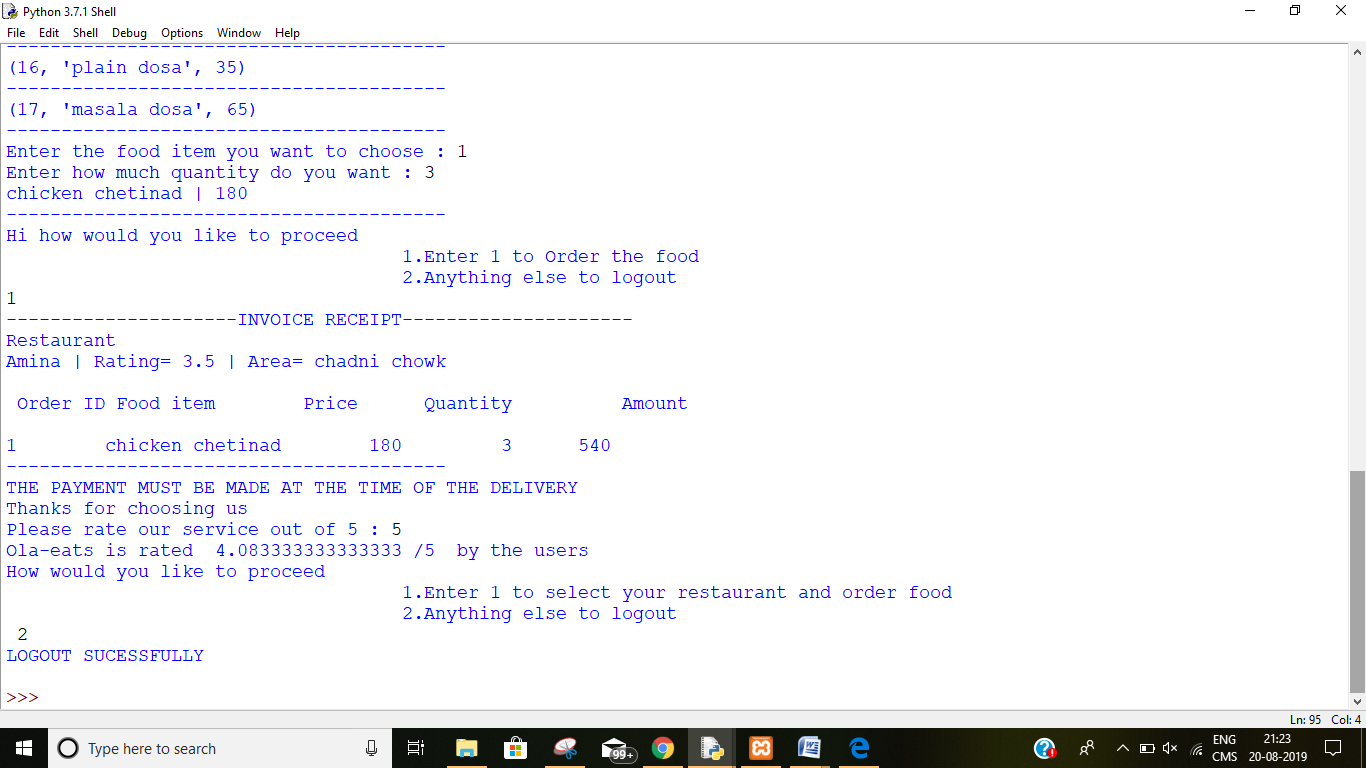


1. Login into and then ordering the food

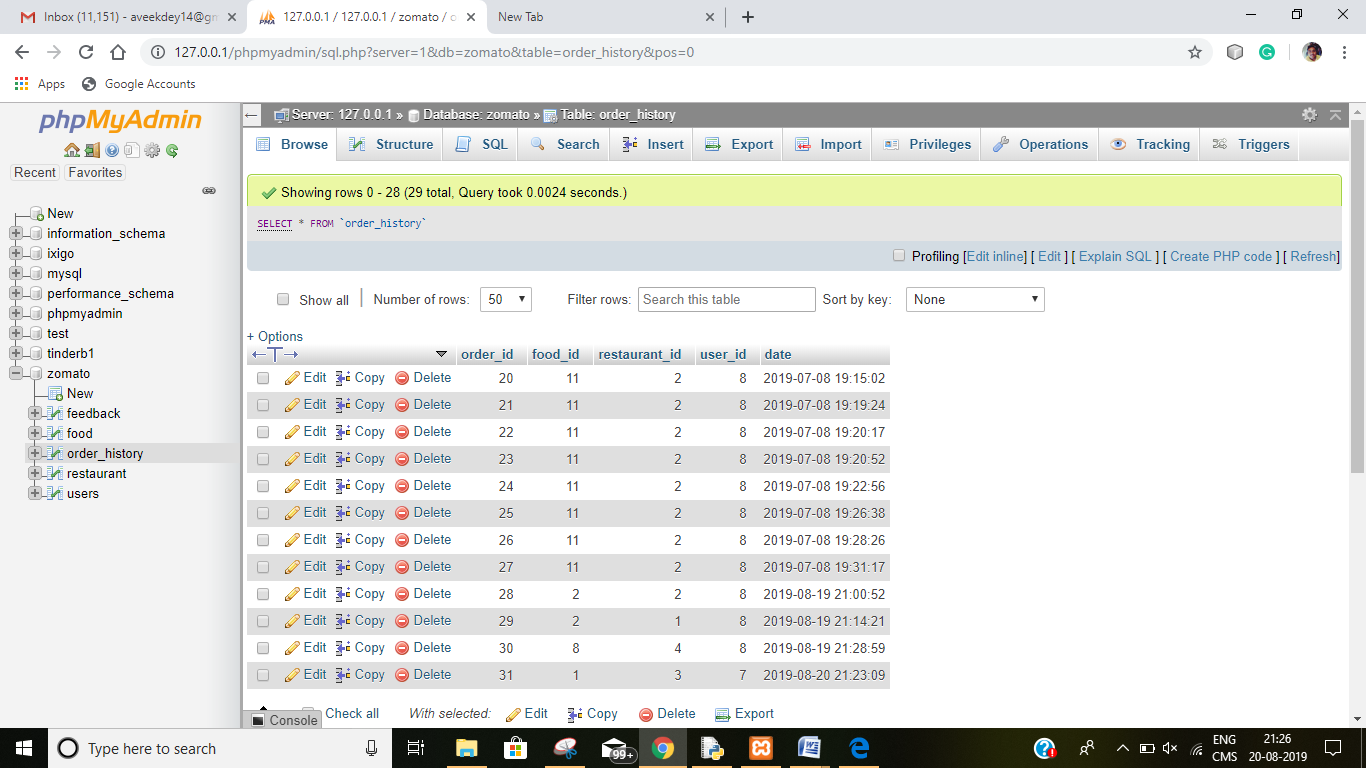


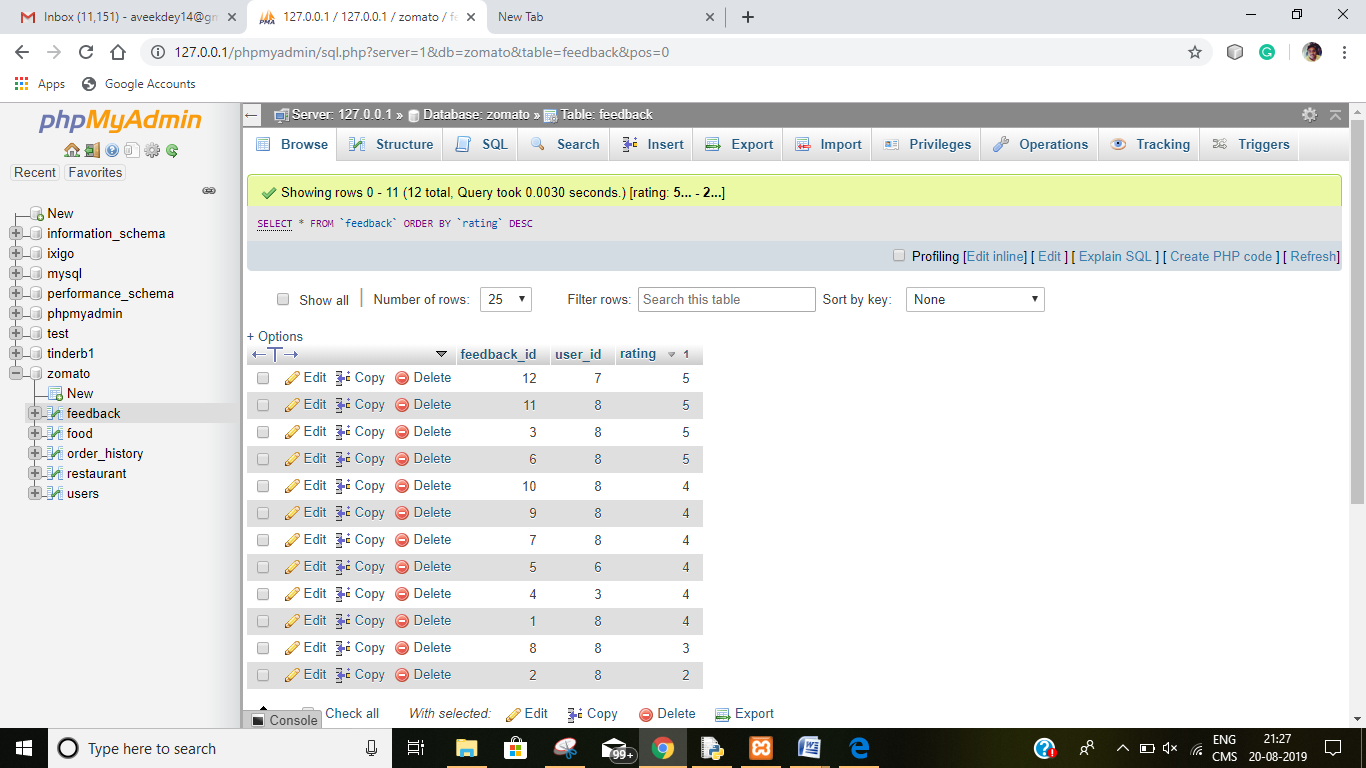






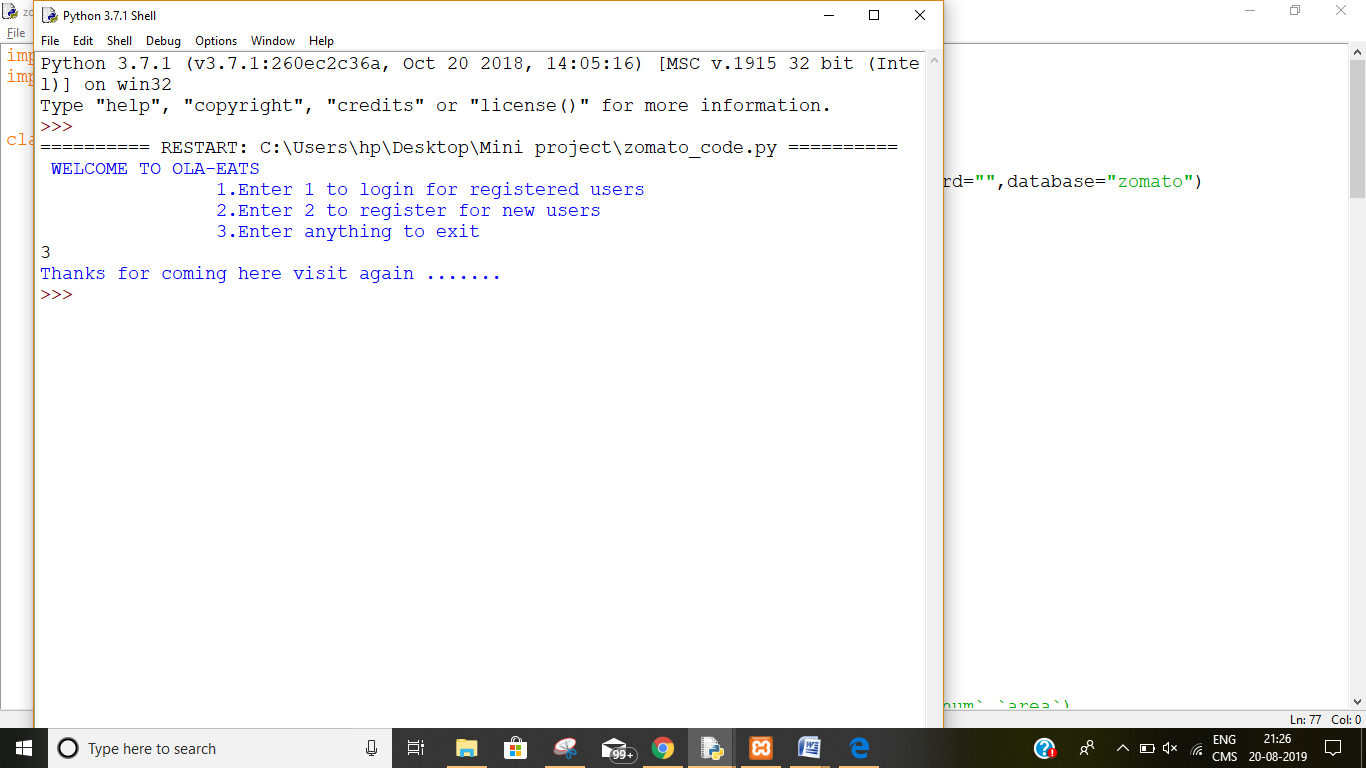
In database the entry of order in the table order\_history and rating in table rating.



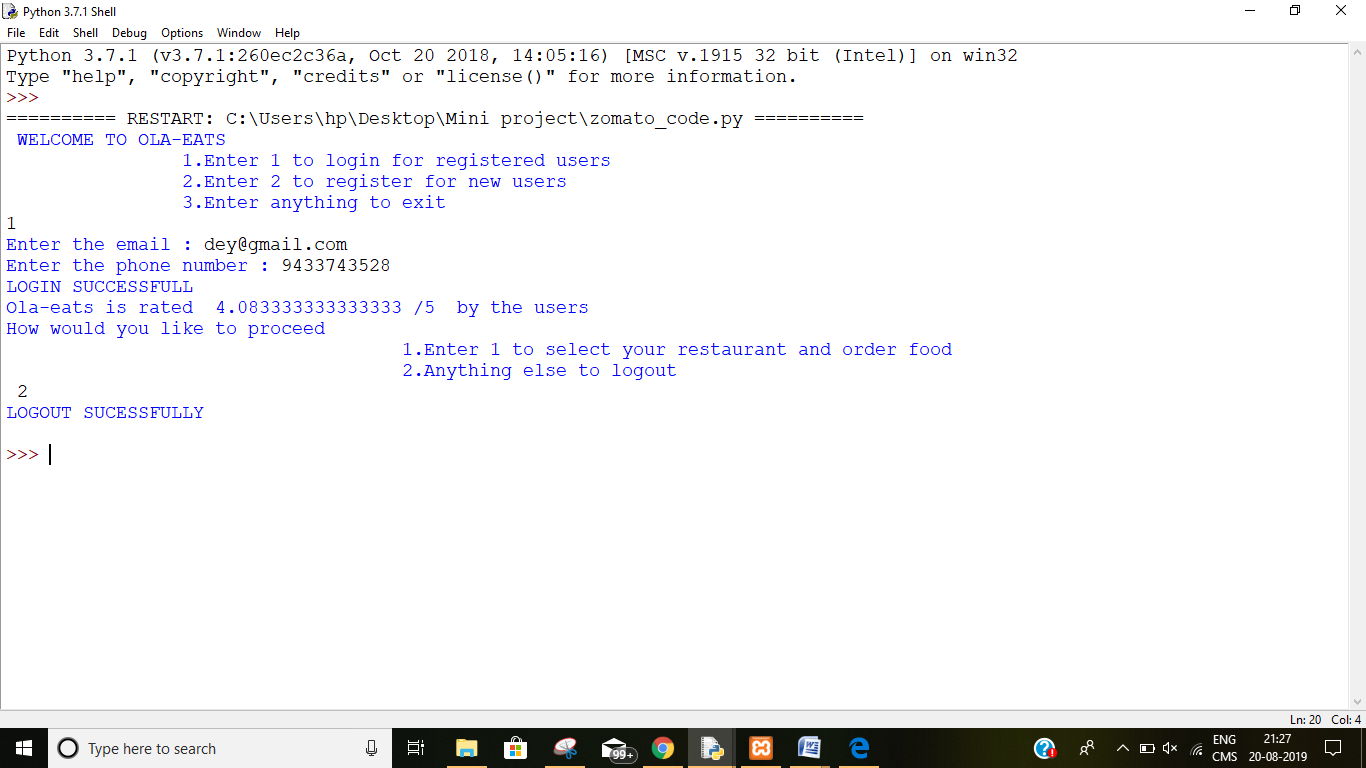


1. Logging out of the program at different stages

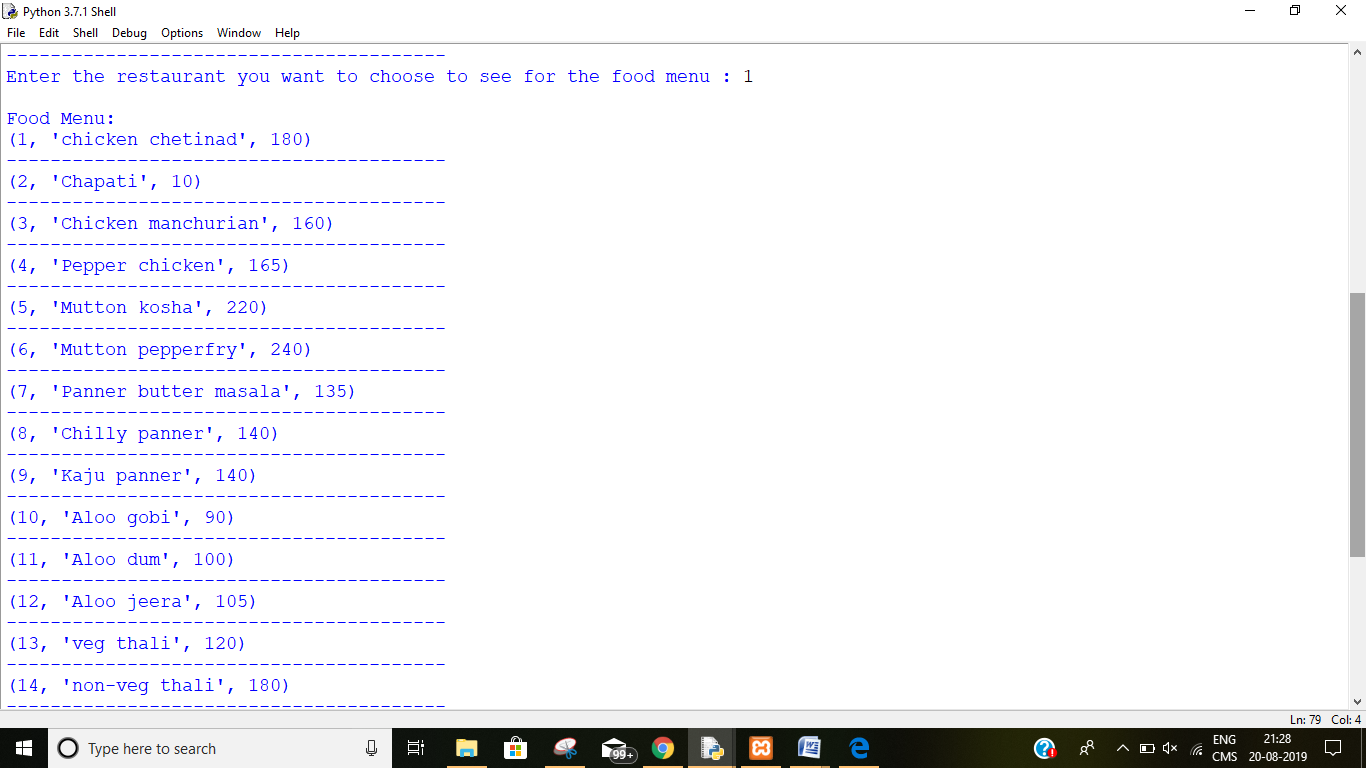
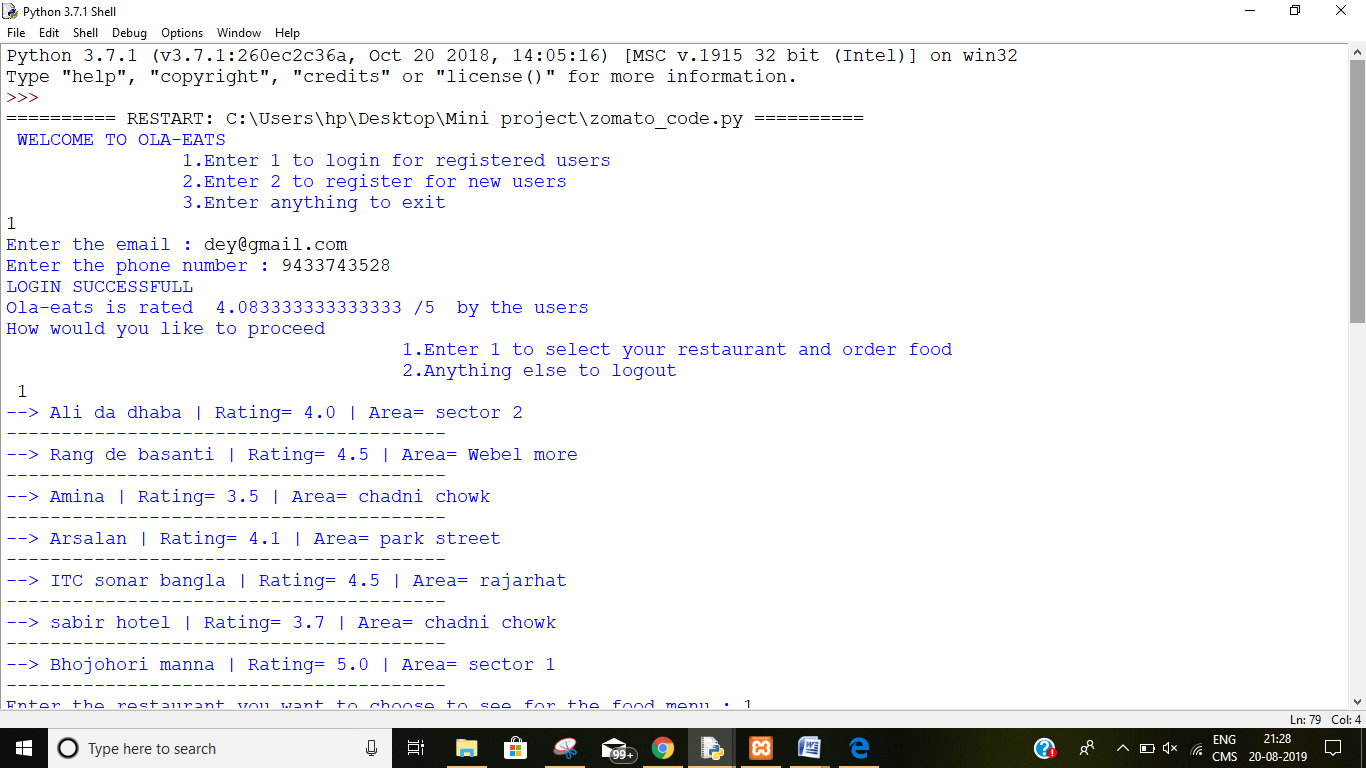
(i)Without login

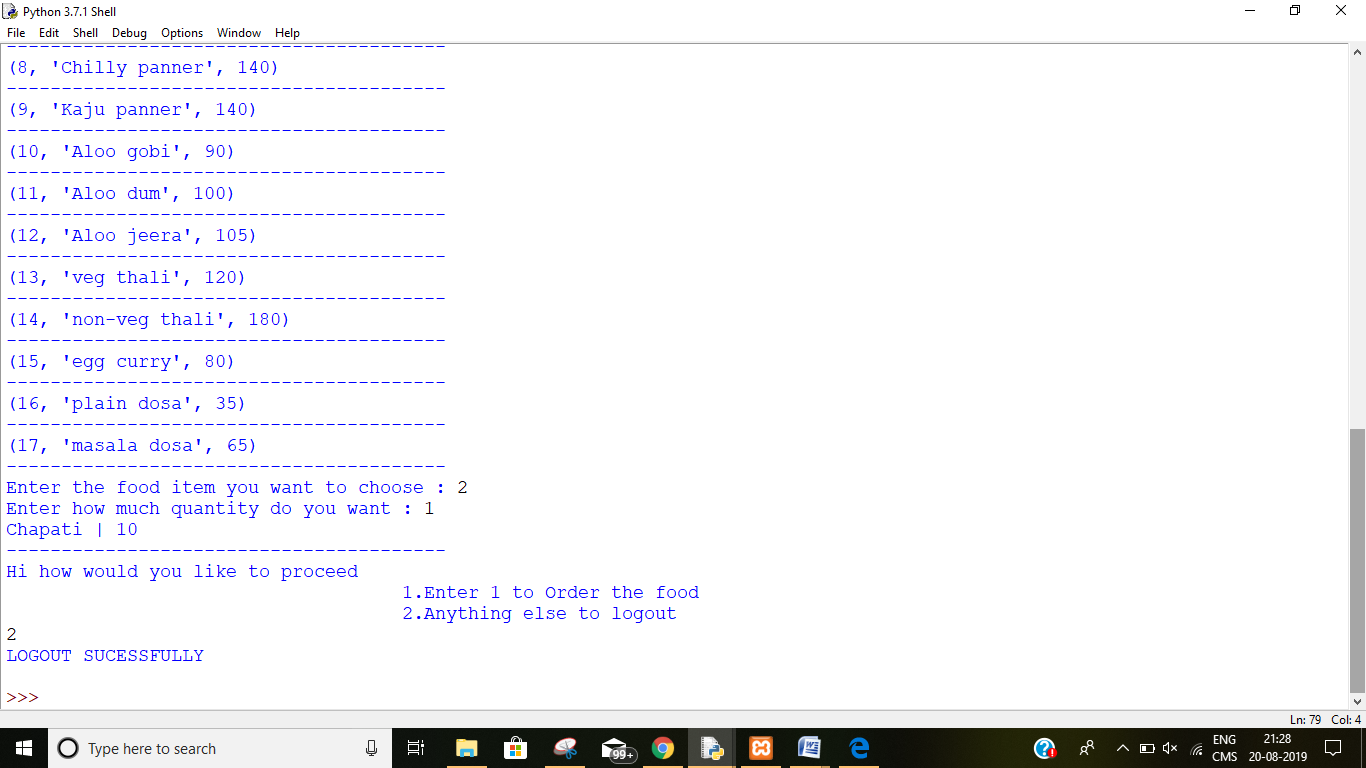


(ii)After login



(iii)Login into the program and then before confirming the order





**CHAPTER 4**

**CONCLUSION AND FURTHER SCOPE**

**CONCLUSION**

The development of online food ordering system involved many phases. The approach used is a top-down one concentrating on what first, then how and moving to successive levels of details. In the course of this study, many problems were discovered to have hindered the effectiveness of the existing manual system. These problems, information needs and activities were documented and later used as the basis for system design, which immediately followed the first phase. The design phase was concerned primarily with the specification of the system elements in manner that best met the organization’s business need .During this phase, strict adherence was made on proven software engineering principles and practices. To implement this design, a computer program and commands was then written and tested in phpMyadmin environment.

It is hoped that effective implementation of this software product would eliminate many problems discovered during systems investigation.

**FURTHER SCOPE**

Making it into graphical user interface .The system can implement a feature which is real time notification from the mobile phone application to the service desk. This feature enable customer to request customer service through using the mobile application rather than verbally call restaurant staff to approach them. In addition, the mobile application also can implement a feature that allow customer to update the food serve status. For example, customers fine dining at the restaurant they can request the food to be serve through using the mobile application and if the customer finish the main course and feeling full, the customer may request do not serve the following food through using the mobile application. Allow customers to customize food orders . Enhance User Interface by adding more user interactive features. Provide Deals and promotional Offer details to home page. Provide Recipes of the Week/Day to Home Page . Payment Options: add online payment option such as PayPal, Cash, Gift Cards etc. Allow to save payment details for future use. Allow to process an order as a Guest .Delivery Options: Add delivery option . Order Process Estimate: Provide customer a visual graphical order status bar .Order Status: Show only Active orders to Restaurant Employees. .Order Ready notification: Send an Order Ready notification to the customer .Restaurant Locator: Allow to find and choose a nearby restaurant .Integrate with In store touch screen devices like iPad

**APPENDIX A:**

**ABOUT THE INDUSTRY**

Karunya Institute of Technology and Sciences, was founded with the noble vision to raise professionals and leaders of high academic calibre and unblemished character, nurtured with a strong motivation and commitment to serve humanity. The institution is the fulfillment of the vision of its founders Late Dr. D. G. S. Dhinakaran and the present Chancellor Dr. Paul Dhinakaran. Established in 1986 as an Engineering College, it was granted an autonomous status in 2000 and declared Deemed-to-be University by the University Grants Commission (UGC) in recognition of its academic excellence by the Ministry of Human Resources Development under section 3 of the UGC Act, 1956 vide notification no 9-3-2000-U3 dated 23.6.2004 of the Government of India. Accredited by NAAC, the institution offers a wide array of Bachelors, Masters and Doctoral Degree programmes in various branches of Engineering, Biotechnology, Food processing and Agricultural Sciences. From a humble beginning of 180 students, the institution has rapidly grown to 8491 students and 452 faculty representing 18 academic departments.

In the three decades of service to higher education, Karunya Institute of Technology and Sciences has made significant progression in teaching learning, research and consultancy, innovation and transfer of technology, community service and value education. Translating the vision of the Founders into action, the institution is currently engaged in finding solutions to human problems in the four major areas such as Water, Food, Healthcare, and Energy through scientific and technological interventions.

Karunya University is accredited by the NAAC with Grade A and all technical programmes conform to prescribed norms of the AICTE (Govt. of India). Karunya University boasts 72 MoUs with reputed institutions across the globe with focus on fields relating to thermal management, nanotechnology, and renewable energy. The research projects are funded by the government. The university spends INR 80,00,000 for infrastructure development and INR 15,00,000 is earmarked every year as Short Term Research Grant (STRG). STRG is offered to junior faculty members to introduce them to research based on project mode.

Campus

The university library is stocked with 78191 books, 221 international and national journals and online access to several journals through Science Direct, IEEE Journals, J-Gate and Ebsco, 3300 CDs. The campus also has auditoria, extracurricular clubs, book store, gymnasiums, water recycling plant, restaurant and canteens. The other campus amenities include bank counter, post office, BSNL Telephone Exchange, hospital, police station, guest

house, music club, guest house, indoor sports hall and extensive playgrounds. There is also the Karunya Residential International School and Karunya Matriculation Higher Secondary School within the campus. The university computer centre houses 1757 computers and offers 100 Mbps LAN with exhaustive software support provided with 15 kms of fibre optic backbone, there are internet centres in hostels enabled through 100 Mbps connectivity and 1 Gbps, 700 phone connections, five mobile phone towers and power backup using diesel-bio-diesel generators (1450 KVA).

**Academics**

BTech Aerospace Engineering; Bioinformatics; Biotechnology; Civil Engineering; Computer Science and Engineering; Electrical and Electronics Engineering; Electronics and Communication Engineering; Electronics and Instrumentation Engineering; Electronics and Media Technology; Food Processing and Engineering; Information Technology; Mechanical Engineering MTech Applied Electronics; Bioinformatics; Biomedical Instrumentation; Biotechnology; Communication Systems; Computer and Communication; Computer Science and Engineering; Control and Instrumentation; Embedded Systems; Food Processing Engineering; Integrated Water Resources Management; Mechanical Engineering; Multimedia Technology; Nanotechnology; Network and Internet Engineering; Power Electronics and Drives; Software Engineering; Structural Engineering; VLSI Design; Renewable Energy Technologies; Mechanical Engineering (Lateral Entry) MTech Integrated Programme Nanoscience and Nanotechnology MBA Marketing; Finance; HR; International Business and Operations; Logistics and Shipping Management MCA MSc Chemistry; Math; Medical Biochemistry; Networking Technology; Physics; Microbiology; Industrial Mathematics; Visual Communication; Nano science and Technology MA English LLM Intellectual Property Rights PG Diploma Advanced Manufacturing Technology (In collaboration with CMTI, Bangalore); Petroleum and Natural Gas Flow Measurements and Instrumentation (In collaboration with FCRI, Palakkad) PhD Programmes .The Karunya Emblem has a human face to indicate that the well being of humanity is central to our entire endeavors and that we shall never forget them in the midst of our equations and diagrams. The symbol has a gear wheel as the human eye, in appreciation of the importance of technology in today’s world. The lighted torch stands for the light of knowledge, the light that promises moral, social and economic well being; The hand holding the torch depicts Karunya’s contribution towards enlightening the young minds by spreading knowledge through education. The motto ‘ARISE AND SHINE’ is a motivation to the youth to shine in their respective fields of study. To sum up, Karunya’s emblem reflects the institution's mission in creation and dissemination of knowledge, value addition to men and materials and optimization of human potential for national development in all its ramifications for a bright future.

**APPENDIX B:**

**ORGANISATIONAL CHART OF INDUSTRY**

**Karunya University is a deemed to be University under the Sec 3 of UGC Act 1956**

Dr. Paul Dhinakaran

Honourable Chancellor

Dr. P Mannar Jawahar

Honourable Vice Chancellor

Dr. Ridling Margaret Waller

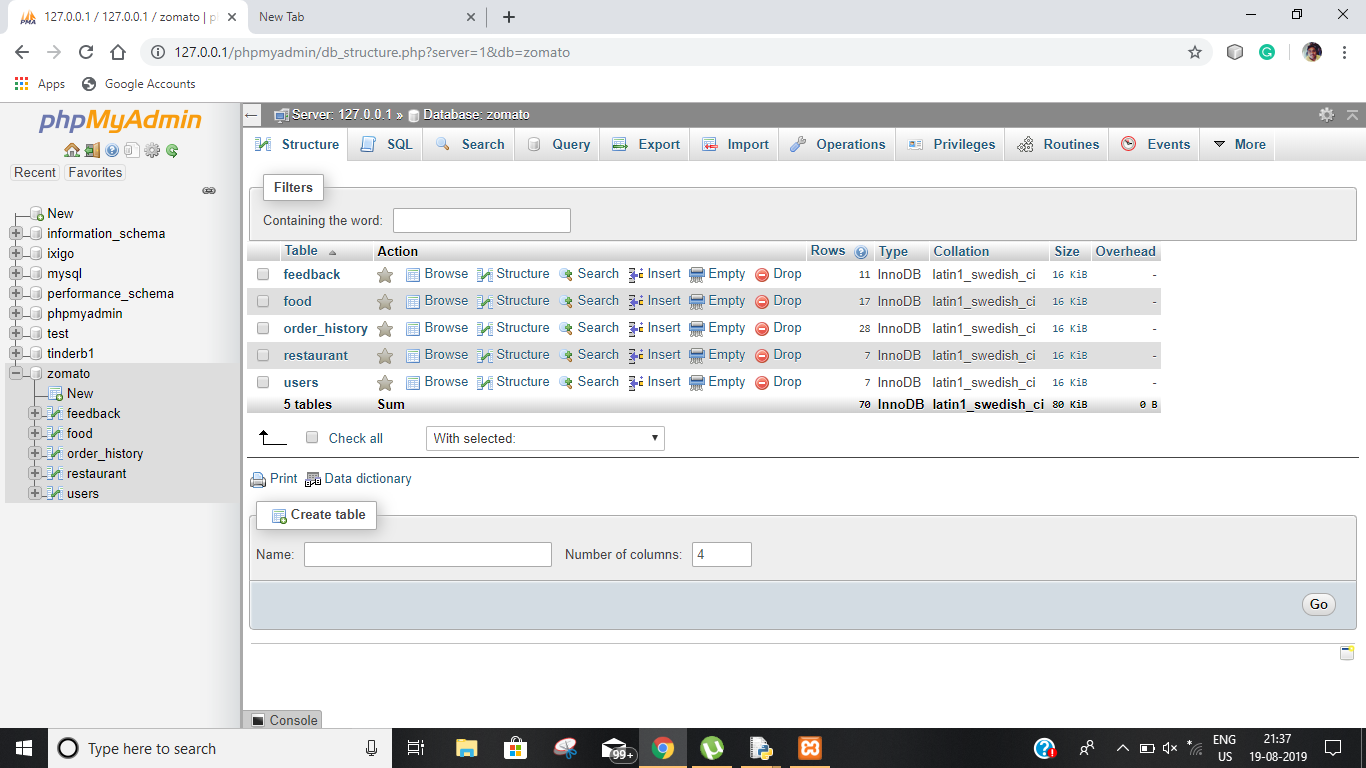
Honourable Pro Vice Chancellor

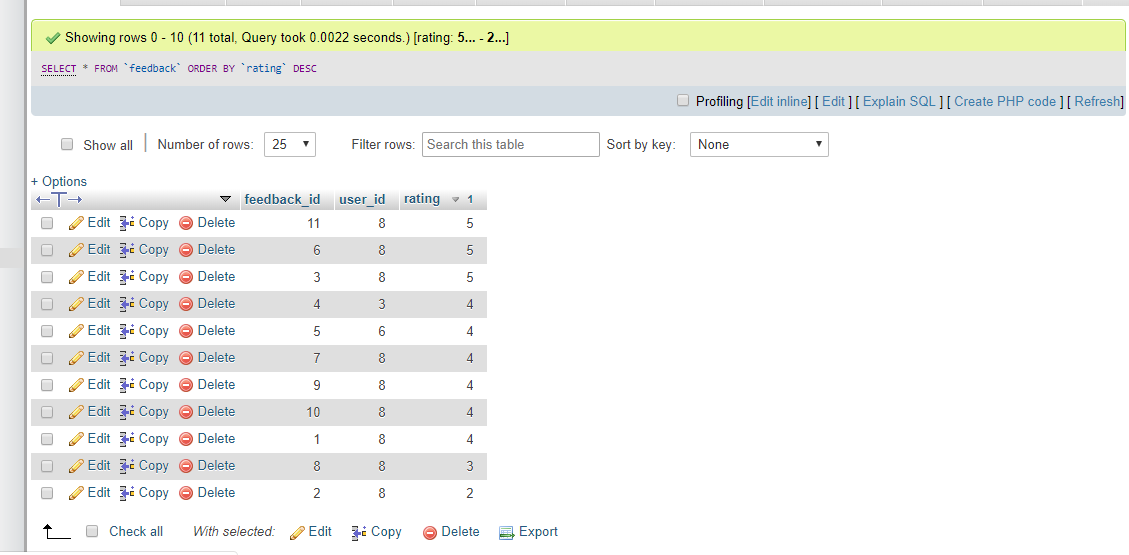
Dr. R Elijah Blessing

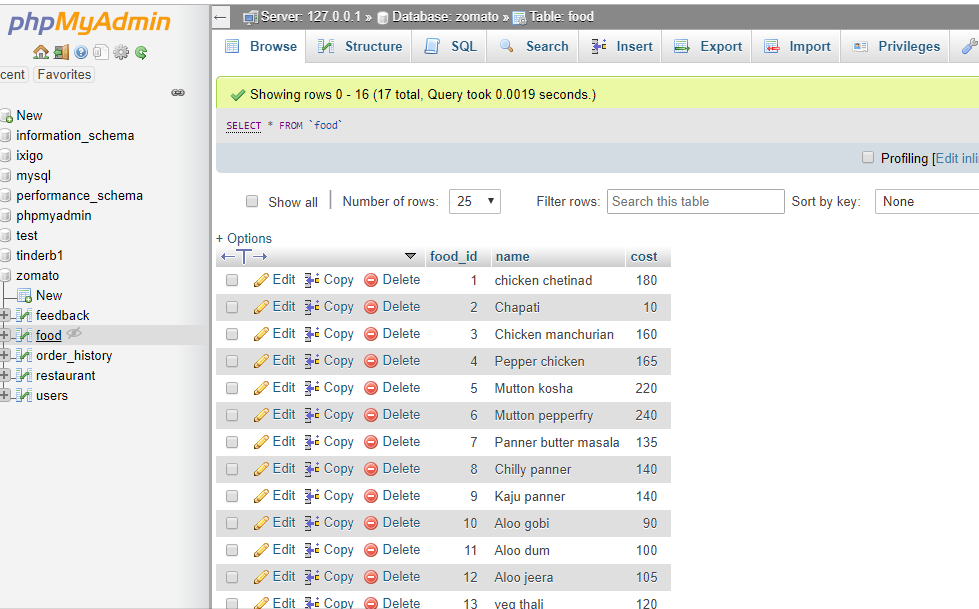
Respected Registrar

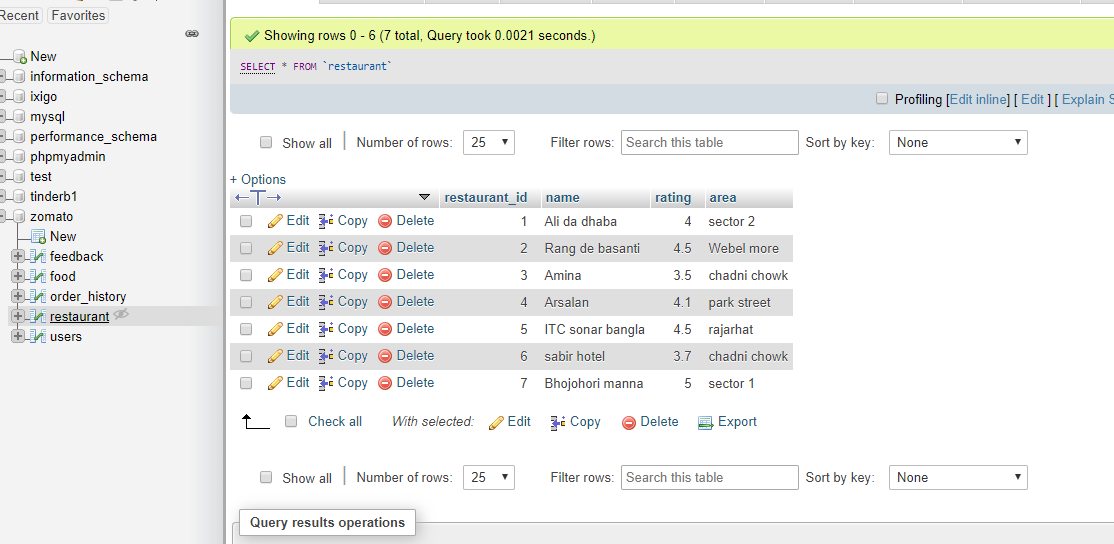
**APPENDIX C:**

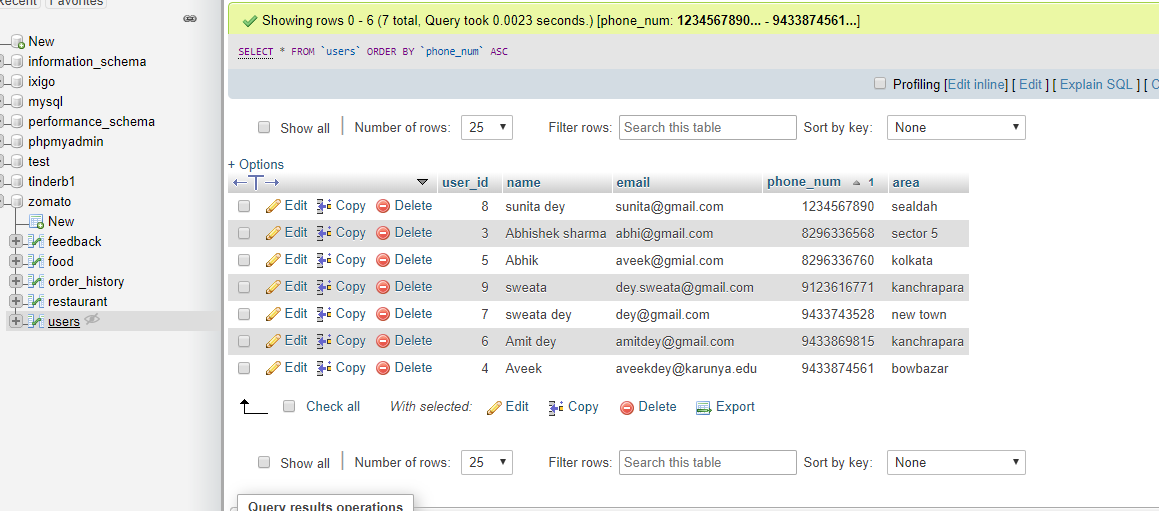
ALL DATABASES

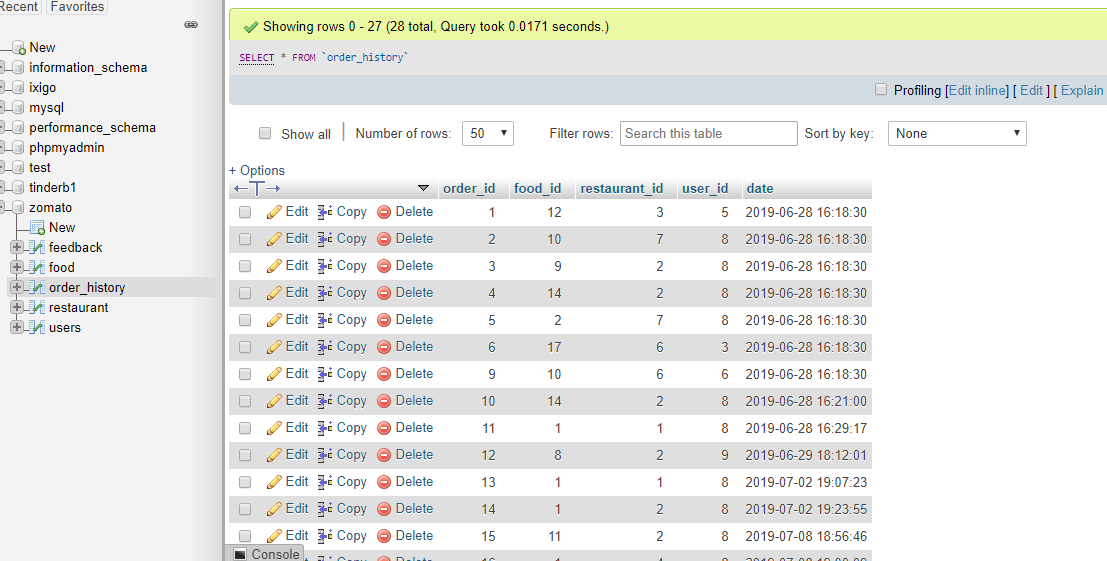
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**APPENDIX D:**

**PROGRAM CODE**

import mysql.connector

import datetime

class olaeats:

def \_\_init\_\_(self):

self.conn=mysql.connector.connect(host="127.0.0.1",user="root",password="",database="zomato")

self.mycursor=self.conn.cursor()

self.program\_menu()

def program\_menu(self):

program\_input=input(""" WELCOME TO OLA-EATS

1.Enter 1 to login for registered users

2.Enter 2 to register for new users

3.Enter anything to exit \n""")

if program\_input=="1":

self.login()

elif program\_input=="2":

self.register()

else:

print("Thanks for coming here visit again .......")

def register(self):

print("Welcome")

print("Register to use the service")

name=input("Enter name :")

email=input("Enter email :")

phone\_num=int(input("Enter phone number :"))

area=input("Enter your location manually :")

self.mycursor.execute("""INSERT INTO `users` (`name`, `email`,`phone\_num`,`area`)

VALUES ('{}', '{}','{}','{}') """.format(name,email,phone\_num,area))

self.conn.commit()

print("Registered successfully")

self.program\_menu()

def login(self):

email=input("Enter the email : ")

phone\_num=input("Enter the phone number : ")

self.mycursor.execute("""SELECT \* FROM `users` WHERE `email`

LIKE '{}' AND `phone\_num` LIKE '{}'""".format(email,phone\_num))

user\_list=self.mycursor.fetchall()

# print(user\_list)

if len(user\_list) > 0:

print("LOGIN SUCCESSFULL")

self.current\_user\_id = user\_list[0][0]

self.user\_menu()

else:

print("Incorrect")

self.program\_menu()

def user\_menu(self):

self.mycursor.execute("""SELECT \* FROM `feedback` """.format(self.current\_user\_id))

feedback=self.mycursor.fetchall()

rating=0

count=0

for i in feedback:

rating=rating+i[2]

count=count+1

rate=rating/count

print("Ola-eats is rated ",rate,"/5 by the users")

user\_input = input("""How would you like to proceed

1.Enter 1 to select your restaurant and order food

2.Anything else to logout \n """)

if user\_input=="1":

self.viewall\_restaurant()

else:

self.logout()

def viewall\_restaurant(self):

self.mycursor.execute("""SELECT \* FROM `restaurant` """.format(self.current\_user\_id))

all\_users=self.mycursor.fetchall()

for i in all\_users:

print("-->",i[1],"|","Rating=",i[2],"|","Area=",i[3])

print("----------------------------------------")

self.restaurant\_id=int(input("Enter the restaurant you want to choose to see for the food menu : "))

print("\nFood Menu: ")

self.mycursor.execute("""SELECT \* FROM `food` """.format(self.current\_user\_id))

food\_ordered = self.mycursor.fetchall()

for i in food\_ordered:

print(i)

print("----------------------------------------")

self.food\_id=int(input("Enter the food item you want to choose : "))

self.quantity=int(input("Enter how much quantity do you want : "))

if self.quantity>20:

print("Sorry that much quantity not available")

for i in food\_ordered:

if(self.food\_id==i[0]):

print(i[1],"|",i[2])

print("----------------------------------------")

user\_input\_1= input("""Hi how would you like to proceed

1.Enter 1 to Order the food

2.Anything else to logout\n""")

if user\_input\_1=="1":

self.order\_food()

else:

self.logout()

def order\_food(self):

print("---------------------INVOICE RECEIPT---------------------")

print("Restaurant")

self.mycursor.execute("""SELECT \* FROM `restaurant` """.format(self.current\_user\_id))

all\_users=self.mycursor.fetchall()

for i in all\_users:

if(self.restaurant\_id==i[0]):

print(i[1],"|","Rating=",i[2],"|","Area=",i[3],"\n")

self.mycursor.execute("""INSERT INTO `order\_history` (`food\_id`,`restaurant\_id`,`user\_id`)

VALUES ('{}','{}','{}') """.format(self.food\_id,self.restaurant\_id,self.current\_user\_id))

self.conn.commit()

datetime.datetime.now()

print(" Order ID Food item Price Quantity Amount\n")

self.mycursor.execute("""SELECT \* FROM `food` """.format(self.current\_user\_id))

food\_ordered = self.mycursor.fetchall()

for i in food\_ordered:

if(self.food\_id==i[0]):

price=i[2]

print(i[0],"\t",i[1],"\t",i[2],"\t ",self.quantity,"\t ",price\*self.quantity)

print("----------------------------------------")

print("THE PAYMENT MUST BE MADE AT THE TIME OF THE DELIVERY ")

print("Thanks for choosing us ")

self.rating=float(input("Please rate our service out of 5 : "))

self.mycursor.execute("""INSERT INTO `feedback` (`user\_id`,`rating`)

VALUES ('{}','{}') """.format(self.current\_user\_id,self.rating))

self.conn.commit()

self.user\_menu()

def logout(self):

self.current\_user\_id=0

print("LOGOUT SUCESSFULLY \n")

obj1=olaeats()

**REFERENCES**

1. Paul Barry, Head First Python 2e, O′Reilly, 2nd Revised edition, 2016, ISBN-13: 978-1491919538. 6.

2. Kent D Lee, Python Programming Fundamentals, Springer-Verlag London Limited, 2011, ISBN 978-1- 84996-536-1

3. Abraham Silberschatz, Henry F. Korth and S. Sudarshan, Database System Concepts, Sixth Edition, Mc Graw-Hill Education, 2010. ISBN 978-0073523323.

4. Ramez Elmasri, Shamkant B. Navathe, Fundamentals of Database Systems, Seventh Edition, Pearson Education, 2017, ISBN 978-0133970777.

5. Garcia Molina, Database Systems: The Complete Book, Third Impression, 2009, ISBN 978-81-317-0842- 2.

6.Raghu R. and Johannes G., Database Management Systems, Third Edition, Tata McGraw Hill, 2014. ISBN 978- 9339213114

7. MYSQL -Ullman Larry

8. The Complete Reference MYSQL -VIKRAM VASWANI

9. <https://www.mysql.com/products/connector/>

10. [https://www.python.org](https://www.python.org/)

11. <https://www.python.org/downloads/>