FOOD ORDER DELIVERY WEBSITE

Major project report submitted in partial fulfilment of the requirement for the degree of Bachelor of Technology

By

SHIVAM SINHA (18102088)

PAWAN KUMAR GUPTA (18102111)

UNDER THE SUPERVISON OF

Dr. RACHNA SINGH

Department of Electronics And Communication Enginnering

Jaypee Institute Of Information Technology, Noida , 201307, Uttar Pradesh , INDIA

TABLE OF CONTENT

SUMMARY

I hereby declare that, this project has been done by me under the supervision of **DR. Rachna Singh,** Jaypee Institue of Information Technology. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

Supervised by
Dr. Rachna Singh
Assistant Professor
Department of Electronics & Communication Engineering
Jaypee University of Information Technology

Submitted by:
Pawan Kumar Gupta (18102111)
Shivam Sinha (18102088)
Electronics & Communication Engineering Department
Jaypee Institue of Information Technology

CERTIFICATE

This is to certify that the work which is being presented in the project report titled **"FOOD ORDER DELIVERY WEBSITE**" in partial fulfilment of the requirements for the award of the degree of B-Tech in Electronics and communication engineering and submitted to the Department of Electronics and communication engineering, Jaypee Institute of Information Technology, Noida is an authentic record of work carried out by " Shivam sinha (18102088), Pawan Kumar Gupta(18102111) during the period from August 2021 to December 2021 under the supervision of **Dr. Rachna Singh**, Department of Electronics & Communication Engineering, Jaypee Institute of Information Technology, Noida.

Shivam Sinha(18102088)
Pawan Kumar Gupta(18102111)

The above statement made is correct to the best of my knowledge.

Dr. Rachna Singh
Assistant Professor
Electronics And Communication Enginnering
Jaypee Institute of Information Technology, Noida,

AKCNOWLEDGEMENT

Firstly, I express my heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the project work successfully.

I really grateful and wish my profound my indebtedness to Supervisor **Dr. Rachna singh, Assistant Professor** Department of Ece Jaypee Institue of Information Technology, Noida. Deep Knowledge & keen interest of my supervisor in the field of Web Development to carry out this project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

I would like to express my heartiest gratitude to **Dr. Rachna Singh** Department of ECE, for his kind help to finish my project.

I would also generously welcome each one of those individuals who have helped me straight forwardly or in a roundabout way in making this project a win. In this unique situation, I might want to thank the various staff individuals, both educating and non-instructing, which have developed their convenient help and facilitated my undertaking.

Finally, I must acknowledge with due respect the constant support and patients of my parents.

Shivam sinha (18102088)
Pawan Kumar Gupta(18102111)

ABSTRACT

ONLINE FOOD ORDER SYSTEM is a website created specifically for the food delivery industry. By lowering labour costs, this method will enable hotels and restaurants to expand their company. The technology also enables for the quick and easy management of an online menu that clients can explore and order from with just a few mouse clicks. Admin employees then use these orders through an easy to navigate graphical interface for efficient processing. The online food ordering system provides convenience for the customers. It overcomes the disadvantages of the traditional queuing system. This system increases the takeaway of foods than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer. It provides a better communication platform. the user's details are noted electronically. Increased demand of restaurant-goers generated the need for much attention for the hospitality industry. The requirement of the hour is to provide a wide range of options with simplicity of ordering and delivery. To increase the quality of service and business in this industry, technological intervention has become necessary. There is evidence of partial automation of the food ordering process in the country; the majority of the technologies used are wireless technology. This manuscript reports implementation and integration of web based technology for restaurants. A dynamic database utility system was designed to fetch all the information from a centralised database. User utility was given importance during the development of this interface and efficiency, accuracy was the priority for better results and services and to reduce the majority of the human error. It was observed that this system was successful in overcoming the shortcomings found in the previously developed similar systems. Moreover, this system was very cost effective in development as well as during use.

Customers can quickly place orders with a simple mouse click using the online meal ordering system, which creates a menu online. You can also keep track of orders, build a customer database, and improve your food delivery service with an online menu. This system allows the user to choose from a menu of food products what they want to eat. The meal products are ordered by the user. The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user. An id and password are provided for each user. Therefore, it provides a more secured ordering.

INTRODUCTION

INTRO

It is widely acknowledged[2] that starting a new small-scale firm and surviving the competition from well-established and established owners is exceedingly challenging in today's market. In today's fast-paced world, where everyone is pressed for time, the majority of people are picky when it comes to ordering food.. 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. Online ordering system that I am proposing here, greatly simplifies the ordering process for both the customer and the restaurant. System presents an interactive and up-to-date menu with all available options in an easy to use manner. Customer can choose one or more items to place an order which will land in the Cart. Customer can view all the order details in the cart before checking out. At the end, customer gets order confirmation details. When an order is placed, it is entered into a database and retrieved almost instantly. This allows restaurant employees to swiftly sift through orders as they come in and handle all orders fast and efficiently with little delays and confusion..

OBJECTIVE

As we have seen with the Pandemic crisis that began last year, the scope of online business is expanding day by day, and when it comes to the food sector, we have all seen that this industry is growing rapidly all over the world, and by optimising different items and seeing current products on the menu, all of these benefits have given a boost to Online Food Ordering System.

MOTIVATION

I was inspired to create this app because I dislike waiting in lines or having to phone a store to place an order, especially during peak lunch or dinner hours. Furthermore, I cherish my current knowledge of the HTML and Django programming languages, as well as understanding how strong and dynamic they are when it comes to site design and application development.. The languages used to build this application are JSP, HTML and CSS at client facing whereas SQL database at the back-end because I found them to be extremely useful while working on the technologies

LANGUAGE USED

In the frontend part, the use of HTML with the help of CSS and JavaScript for designing of web pages and in the backend Django Framework is used as it is python based and can easily understood ,for storing and retrieving data from database.

TECHNICAL REQUIREMENTS

- Database technique/model
- Security at the Core
- High Performance
- Content delivering networks
- Browser Caching
- Code editor

MAJOR PROJECT SDLC

FEASIBILITY STUDY

The online ordering method I propose here makes the ordering procedure much easier for both the consumer and the restaurant. The system provides an interactive and up-to-date menu that clearly displays all available options. Customers can order one or more items, which will be added to their Cart. Before checking out, the customer can view all of the order details in the cart. At the moment, customer gets order confirmation details. Once the order is placed it is entered in the database and retrieved in pretty much real time. This allows Restaurant Employees to quickly go through the orders as they are received and process all orders efficiently and effectively with minimal delays and confusion.

REQUIREMENTS

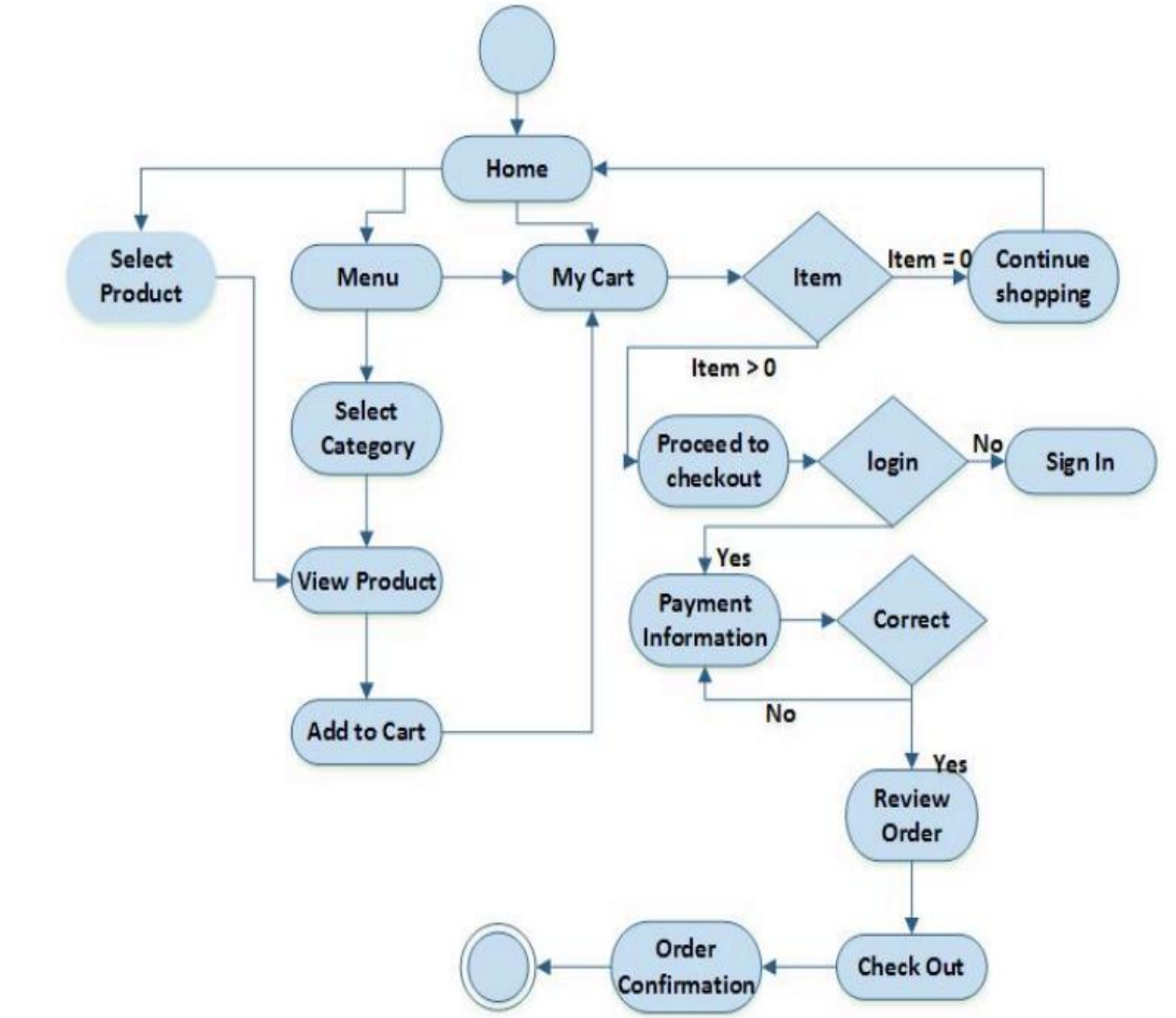
- *FUNCTIONAL*

1. Third Party Integrations
2. Mobile Friendliness
3. Product Attributes
4. Order And Checkout Flow
5. Social Sharing

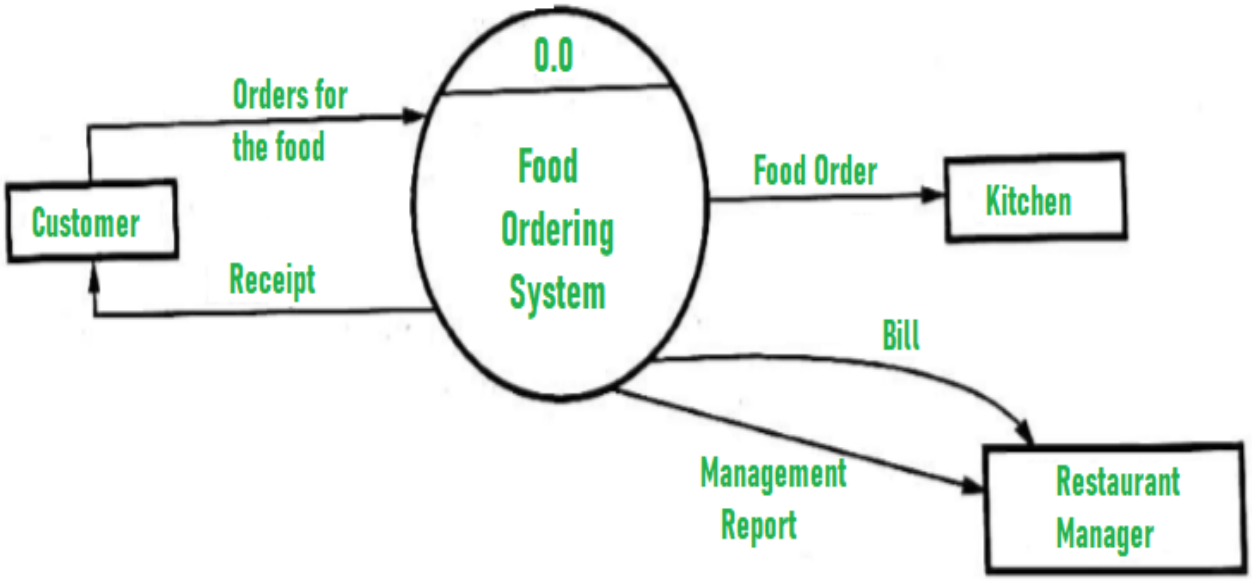
- *NON FUNCTIONAL*

1. Usability
2. Security
3. Performance
4. Maintainability
5. Scalability

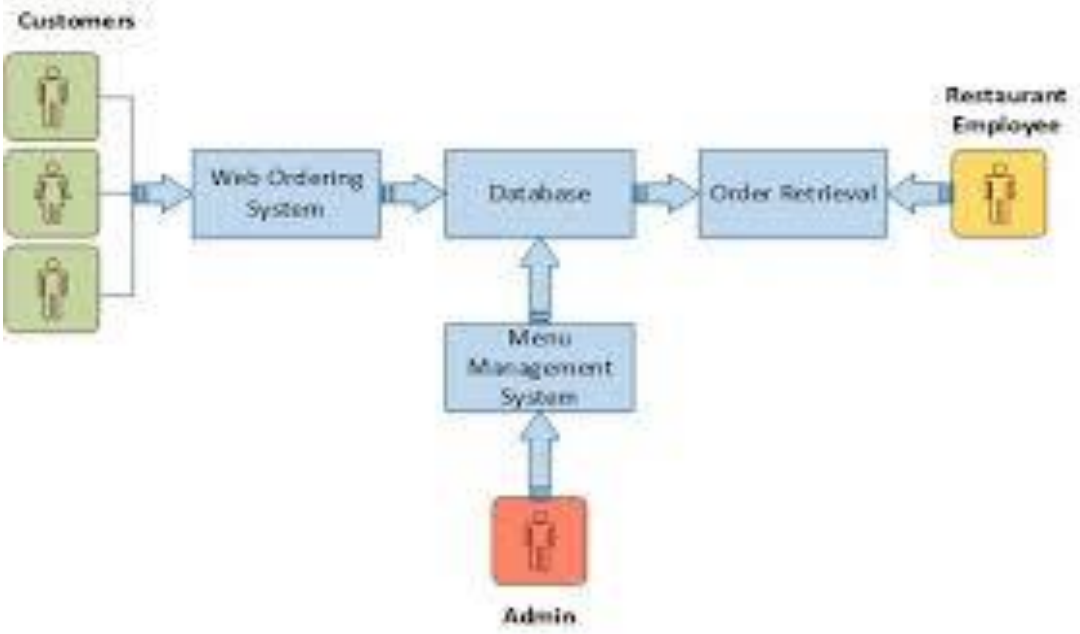
USE CASE DIAGRAM



DFD DIAGRAM



STATE TRANSITION DIAGRAM



IMPLEMENTATION OF THE MAJOR PROJECT

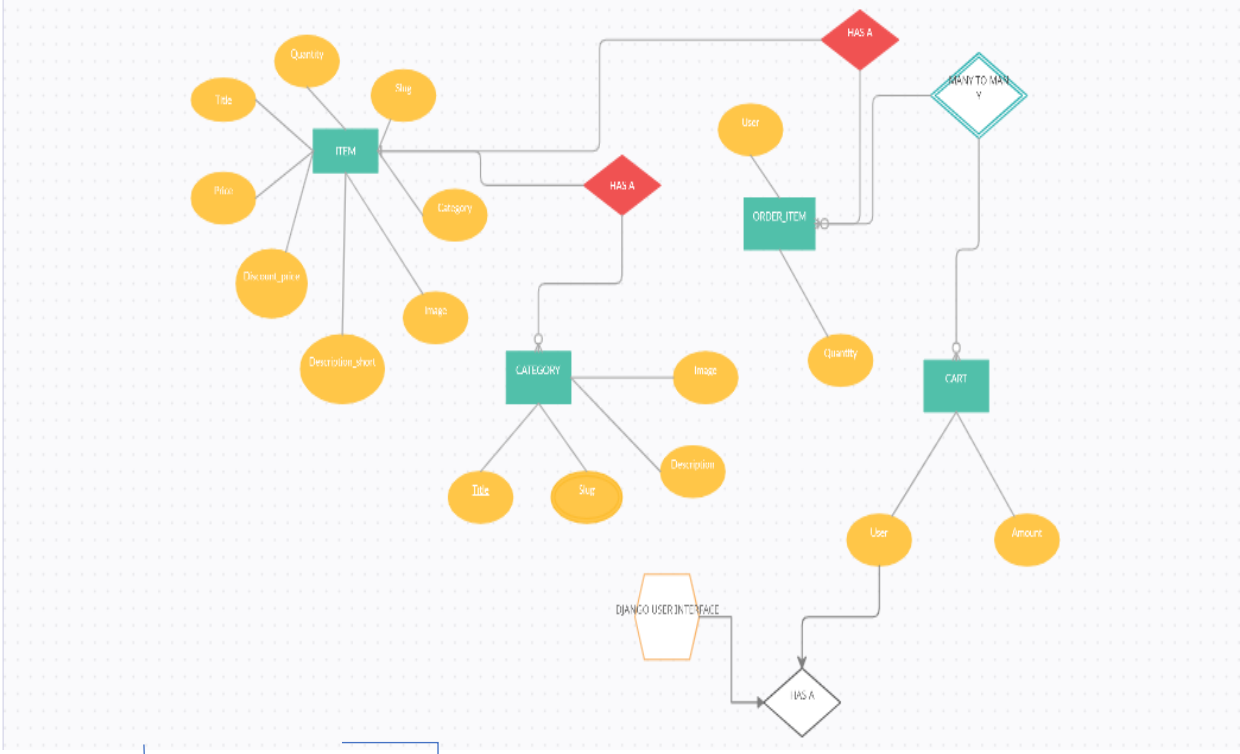
DJANGO FIELDS

• AUTOFIELD	It An Integer Field that automatically increments.
• BIGAUTOFIELD	It is a 64-bit integer, much like an Auto Field except that it is guaranteed to fit numbers from 1 to 9223372036854775807.
• BIGINTEGERFIELD	It is a 64-bit[4] integer, much like an Integer Field except that it is guaranteed to fit numbers from -9223372036854775808 to 9223372036854775807.
• BINARYFIELD	A field to store raw binary data.
• BOOLEANFIELD	A true/false field. The default form widget for this field is a Checkbox Input.
• CHARFIELD	A field to store text based values.
• DATEFIELD	A date, represented in Python by a date time date instance

• DECIMALFIELD	It is a fixed-precision decimal number, represented in Python by a Decimal instance.
• DURATIONFIELD	A field for storing periods of time.
• EMAILFIELD	It is a Char Field that checks that the value is a valid email address.
• FILEFIELD	It is a file-upload field.
• FLOATFIELD	It is a floating-point number represented in Python by a float instance.
• IMAGEFIELD	It inherits all attributes and methods from File Field, but also validates that the uploaded object is a valid image.
• INTEGERFIELD	It is an integer field. Values from -2147483648 to 2147483647 are safe in all databases supported by Django.
• GENERICADDRESSFIELD	An IPv4 or IPv6 address, in string format (e.g. 192.0.2.30 or 2a02:42fe::4).
• NULLBOOLEANFIELD	Like a Boolean Field, but allows NULL as one of the options.

• POSITIVEINTEGERFIELD	Like an Integer Field, but must be either positive or zero (0).
• POSITIVESMALLINTEGERFIELD	Like a Positive Integer Field, but only allows values under a certain (database-dependent) point.
• SLUGFIELD	Slug is a newspaper term. A slug is a short label for something, containing only letters, numbers, underscores or hyphens. They're generally used in URLs.
• SMALLINTEGERFIELD	It is like an Integer Field, but only allows values under a certain (database-dependent) point.
• TEXTFIELD	A large text field. The default form widget for this field is a Text area.
• TIMEFIELD	A time, represented in Python by a datetime time instance.
• URLFIELD	A Char Field for a URL, validated by URL Validator.

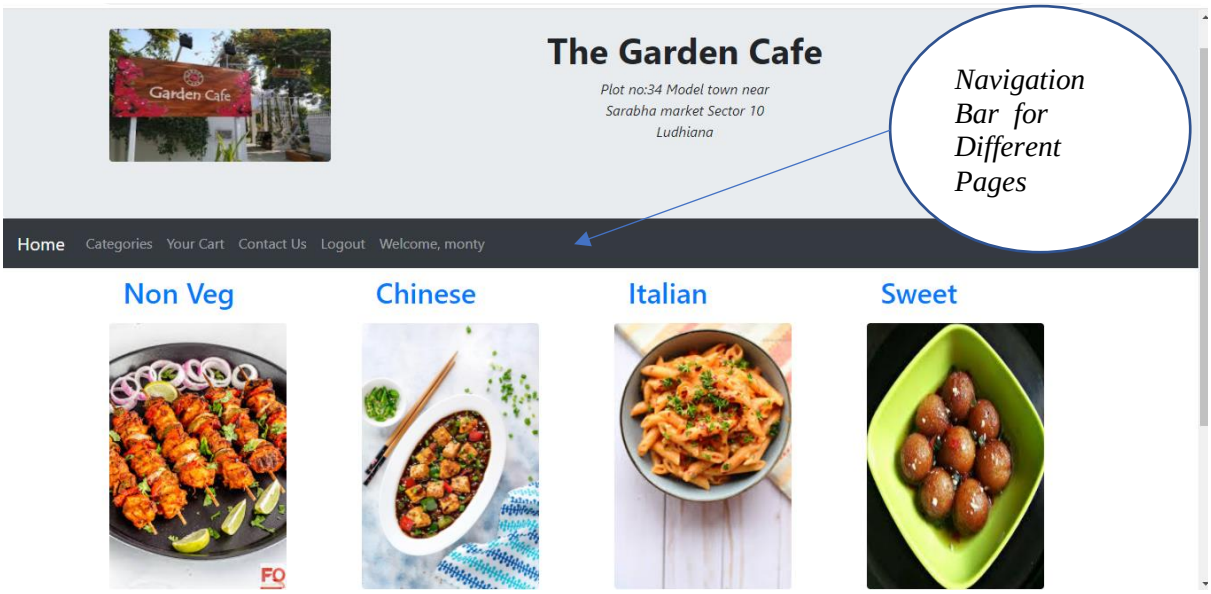
DESIGN OF PROBLEM STATEMENT



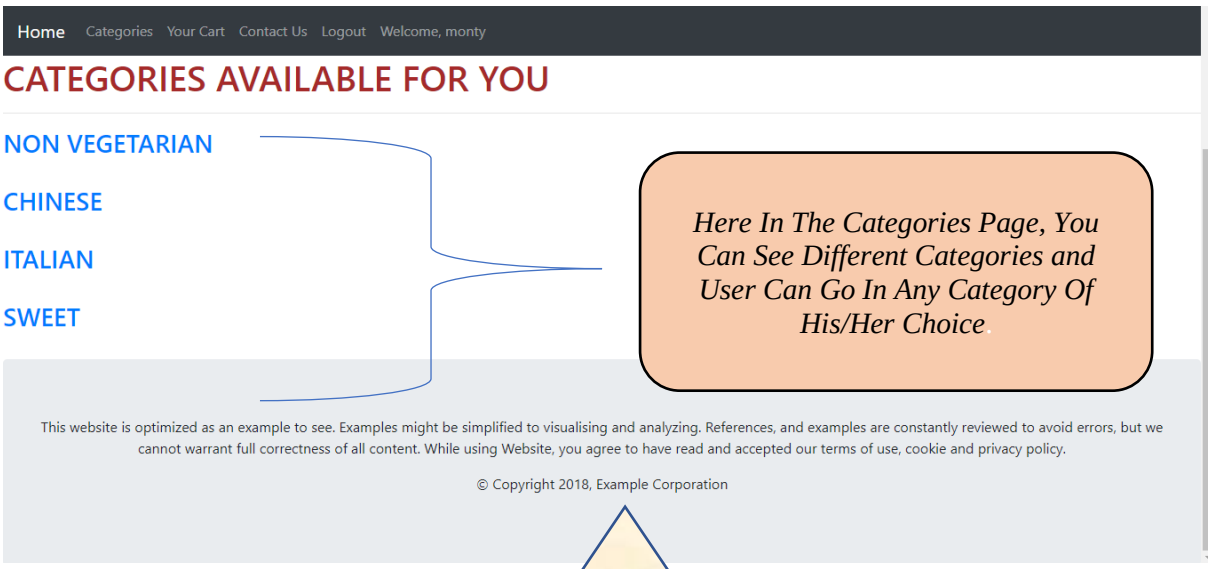
Here Different Models Interconnections and relation among them. has been shown.

Different Tables has been shown through rectangular boxes and their various attributes has been shown in oval boxes. Different relation has been shown through diamond box.

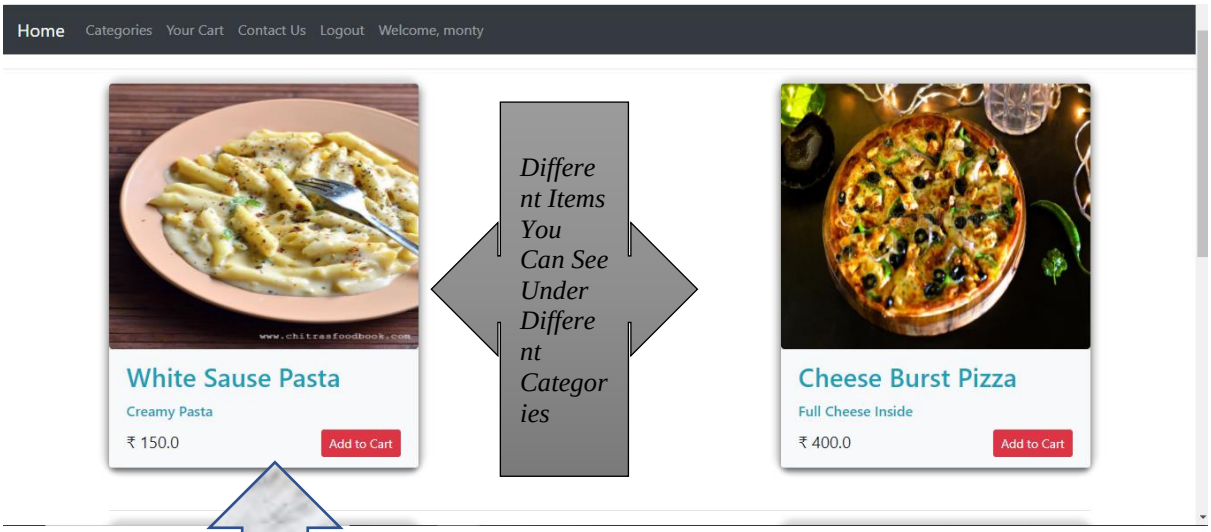
SCREENSHOTS OF THE PROJECT



Home Page Of The Website Consisting Of Header And Different Items In The Body



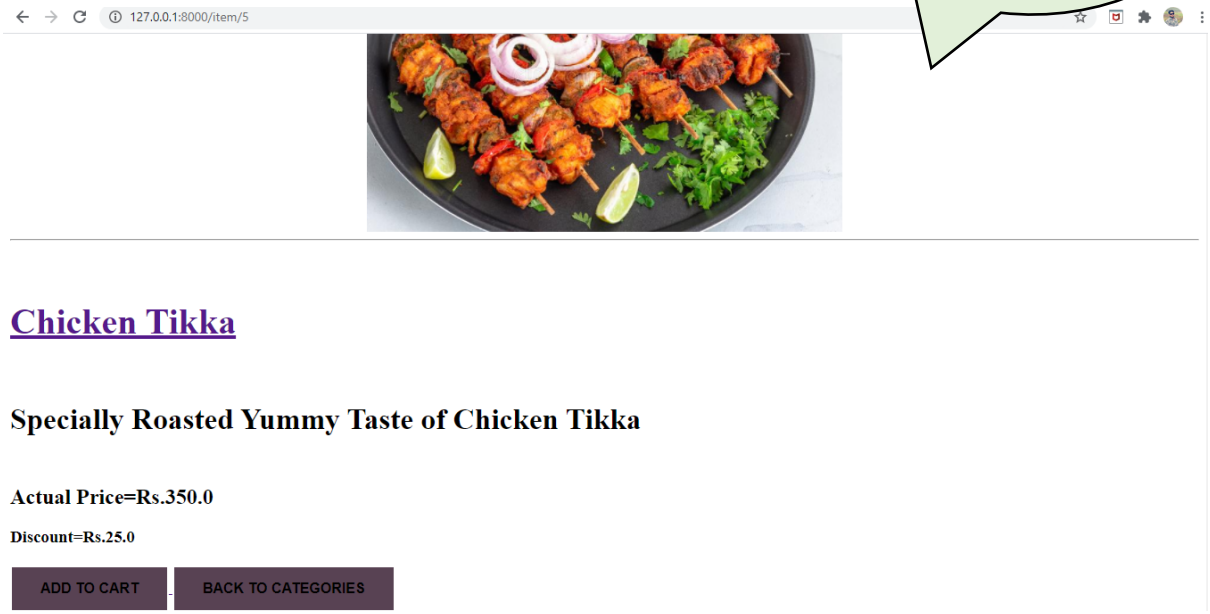
You Can See The Footer Part Which Has /Been Extended In Every Template

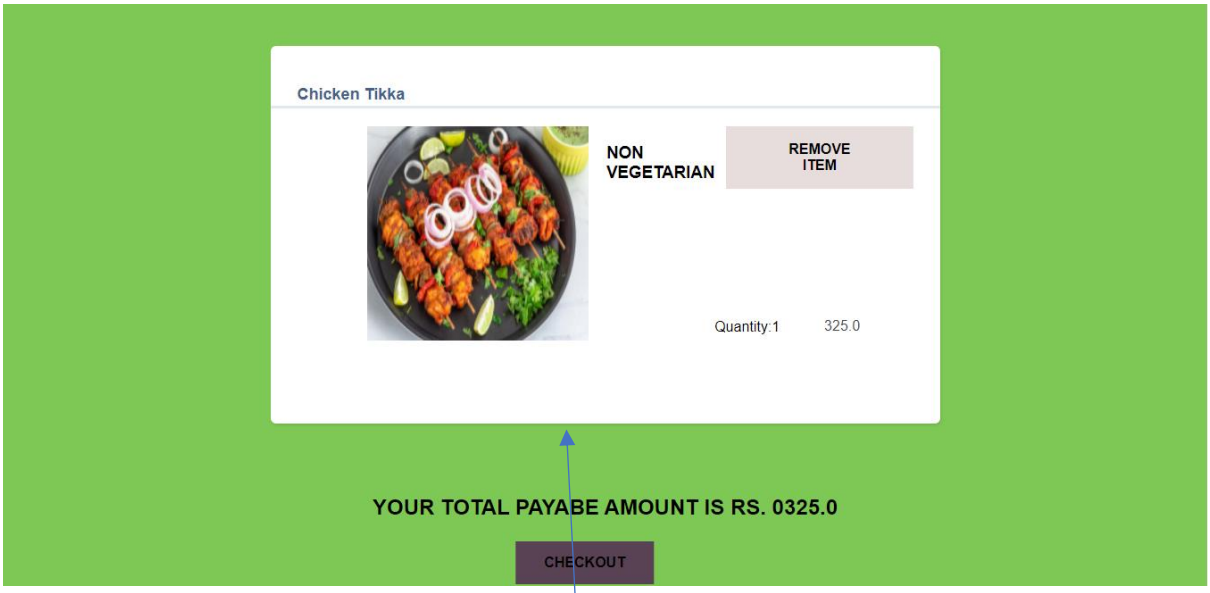


Different Items You Can See Under Different Categories

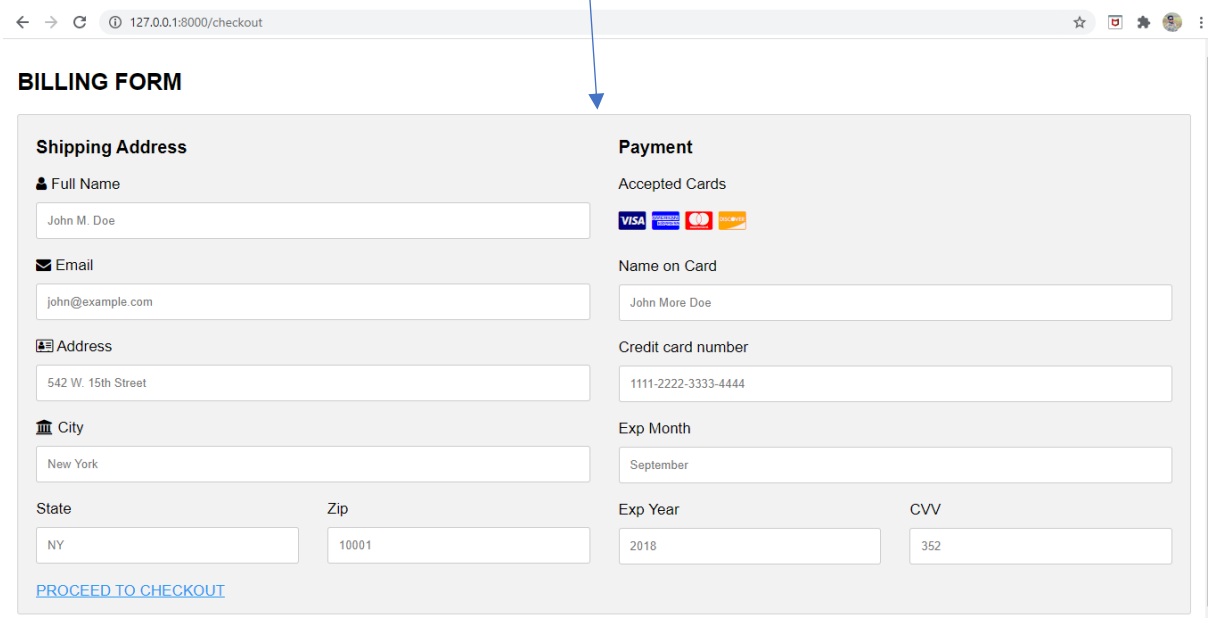
You Can Add The Items In Your Cart, and Also You Can See The Price Of The Item

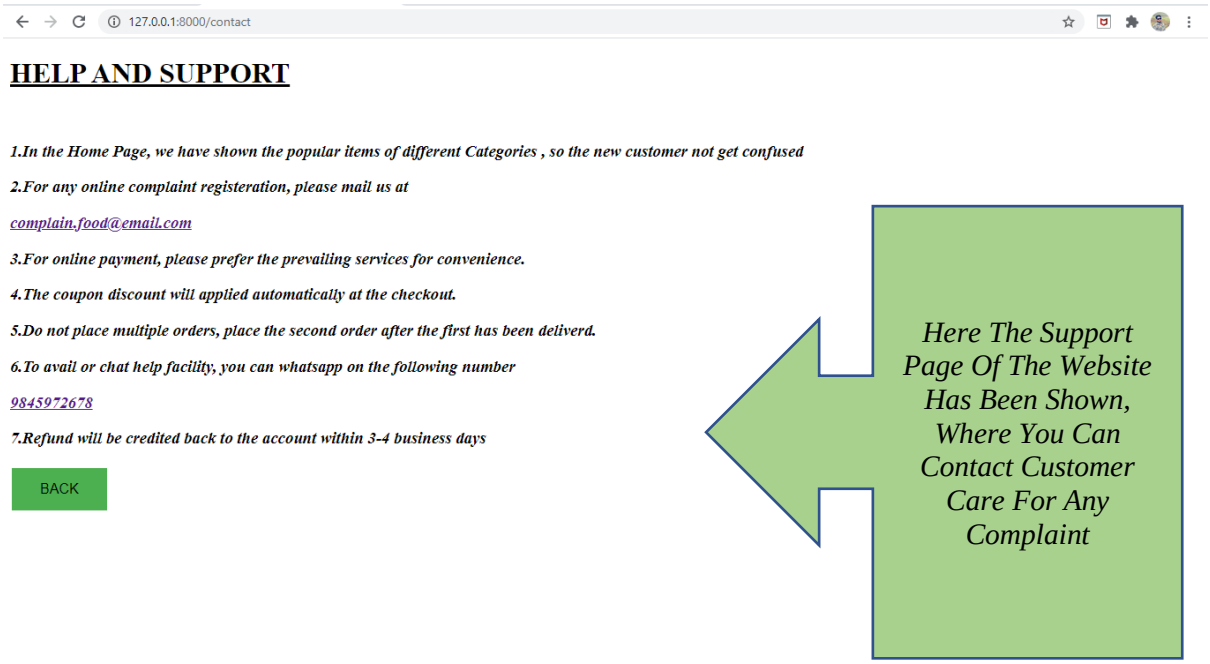
You Can View Single Item By Clicking On Item Name , in This, You will See Full Description Along With Discount Price

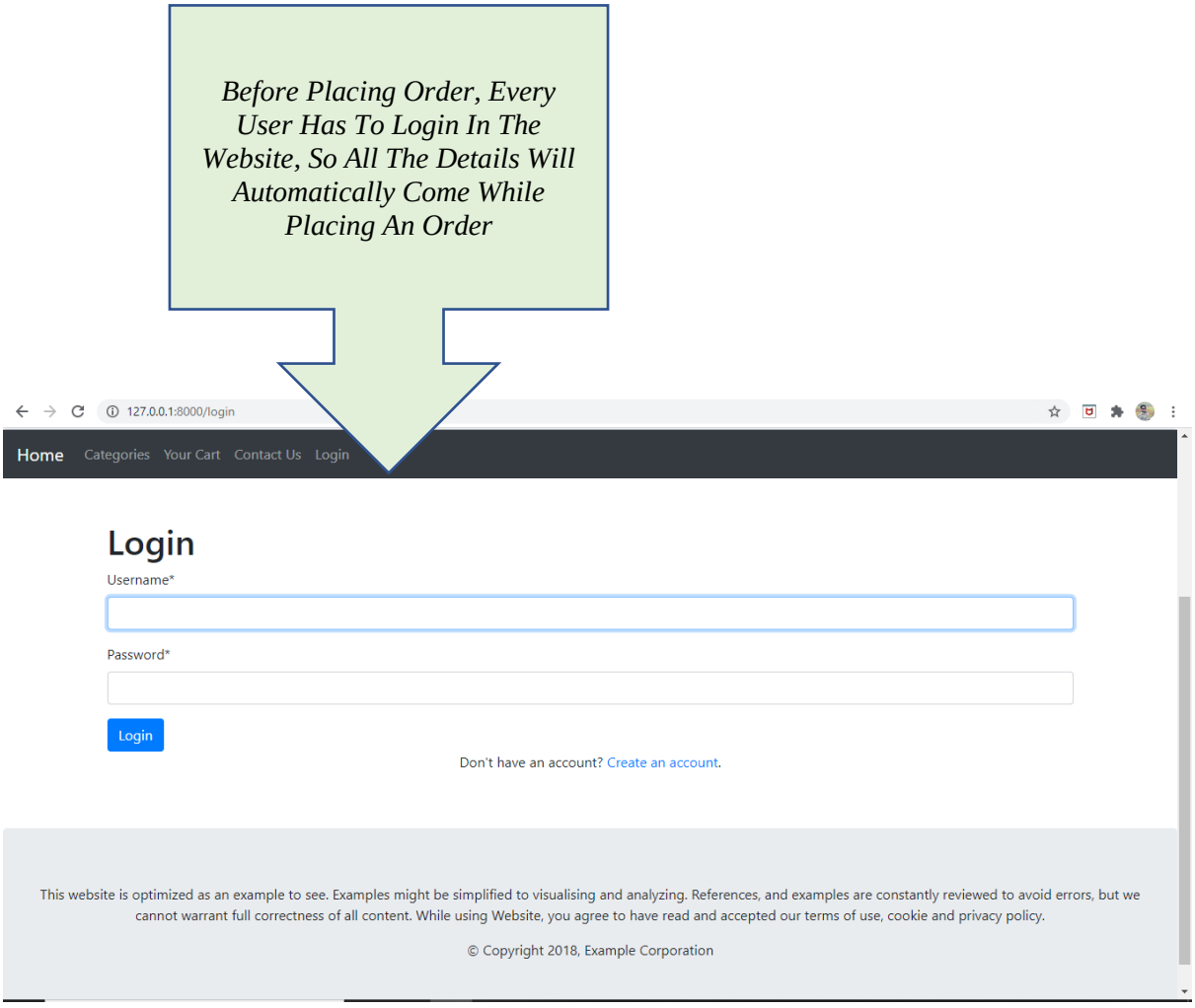


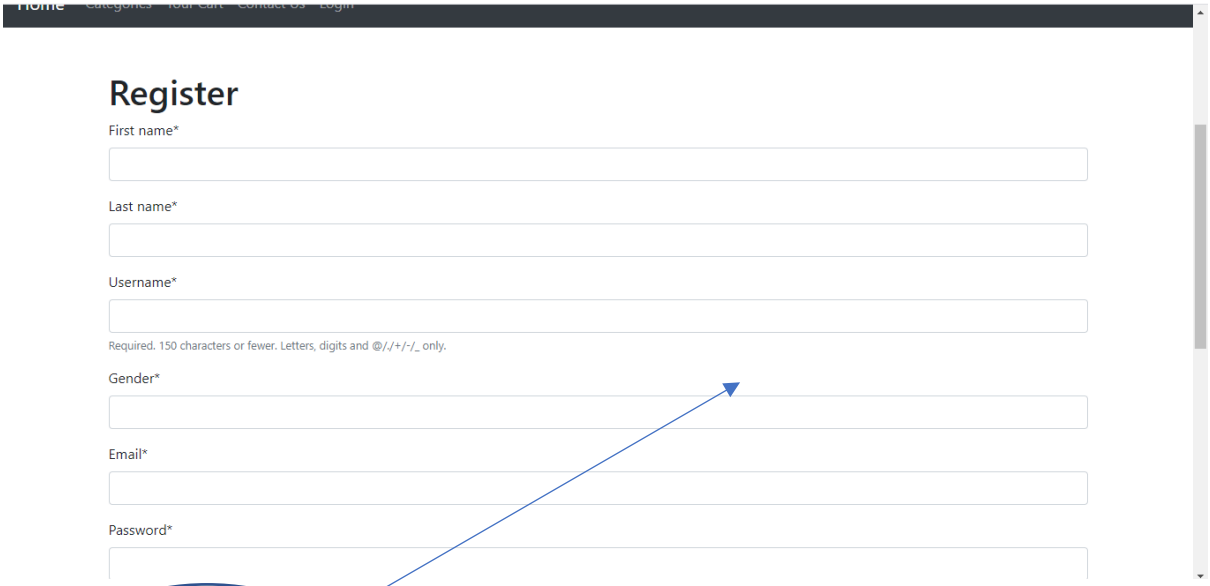


This The Cart Page, Where You Can See, We Can Remove Item And Also The Total Amount Has Been Generated At The Bottom Of This, And After This You Can Move To Payment Page (shown below) Where After Entering All The Credentials You Can Make Payment.

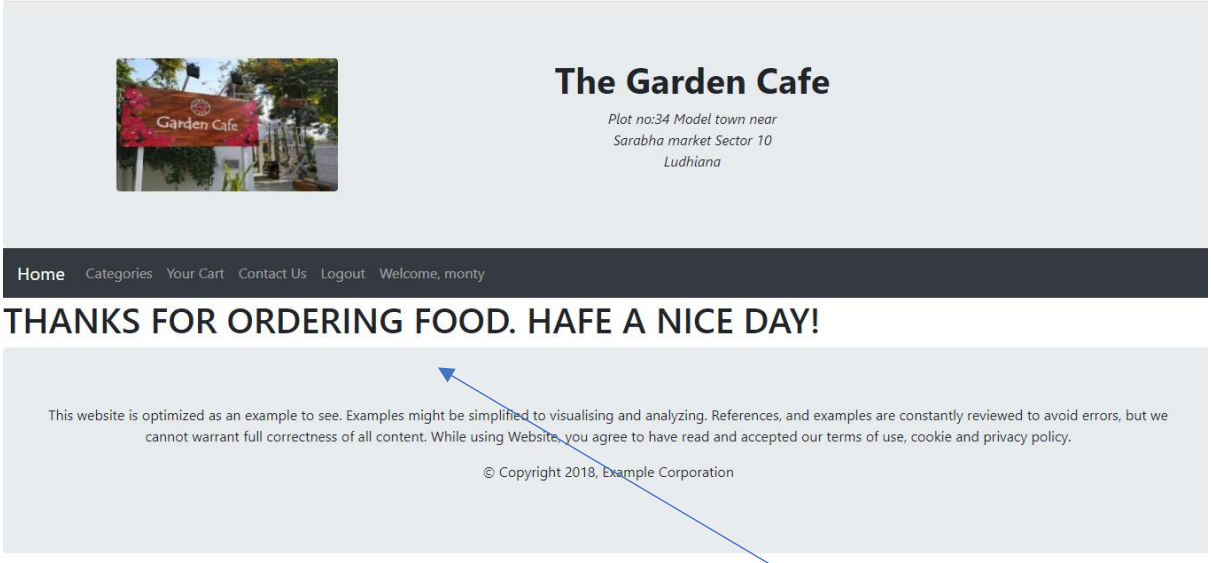



127.0.0.1:8000/contact
HELP AND SUPPORT
1.In the Home Page, we have shown the popular items of different Categories , so the new customer not get confused
2.For any online complaint registeration, please mail us at
complain.food@email.com
3.For online payment, please prefer the prevailing services for convenience.
4.The coupon discount will applied automatically at the checkout.
5.Do not place multiple orders, place the second order after the first has been deliverd.
6.To avail or chat help facility, you can whatsapp on the following number
9845972678
7.Refund will be credited back to the account within 3-4 business days
BACK
Here The Support Page Of The Website Has Been Shown, Where You Can Contact Customer Care For Any Complaint

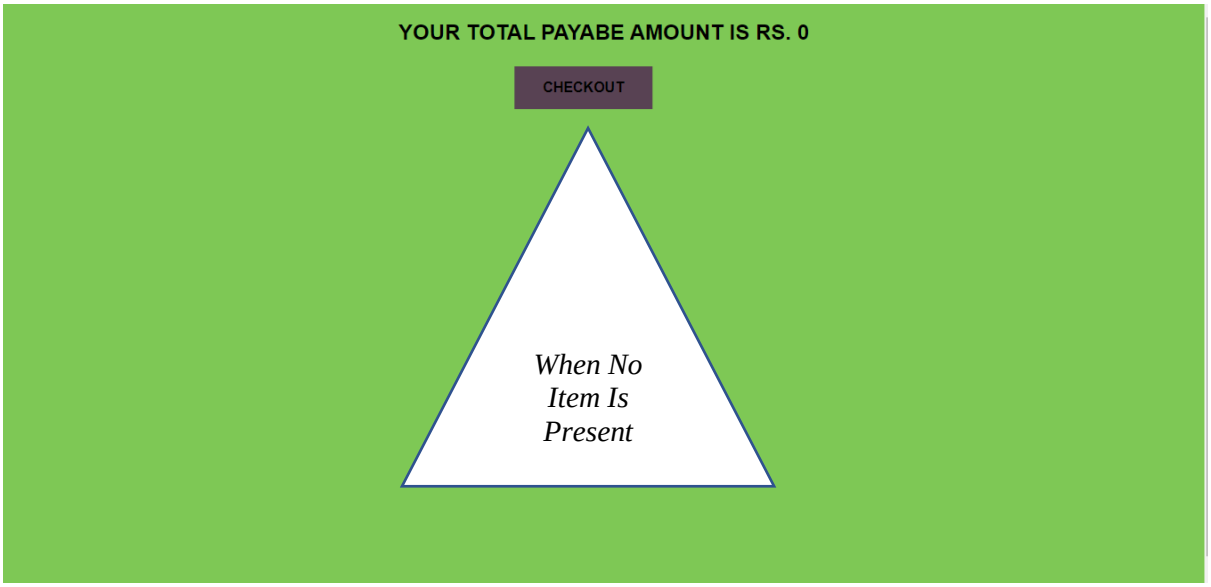

Before Placing Order, Every User Has To Login In The Website, So All The Details Will Automatically Come While Placing An Order
127.0.0.1:8000/login
Home
Categories
Your Cart
Contact Us
Login
Login
Username*
Password*
Login
Don't have an account? Create an account.
This website is optimized as an example to see. Examples might be simplified to visualising and analyzing. References, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using Website, you agree to have read and accepted our terms of use, cookie and privacy policy.
© Copyright 2018, Example Corporation

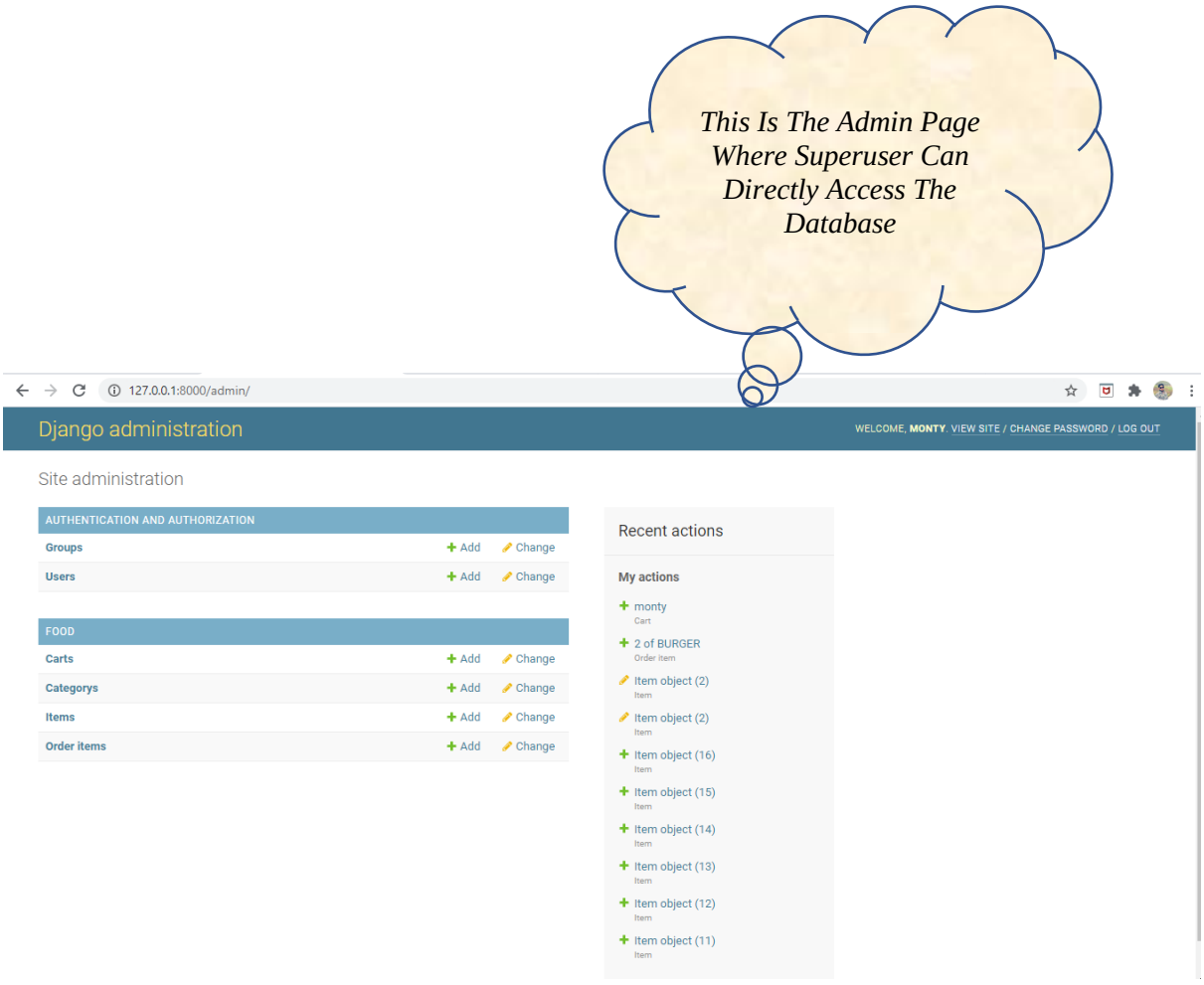


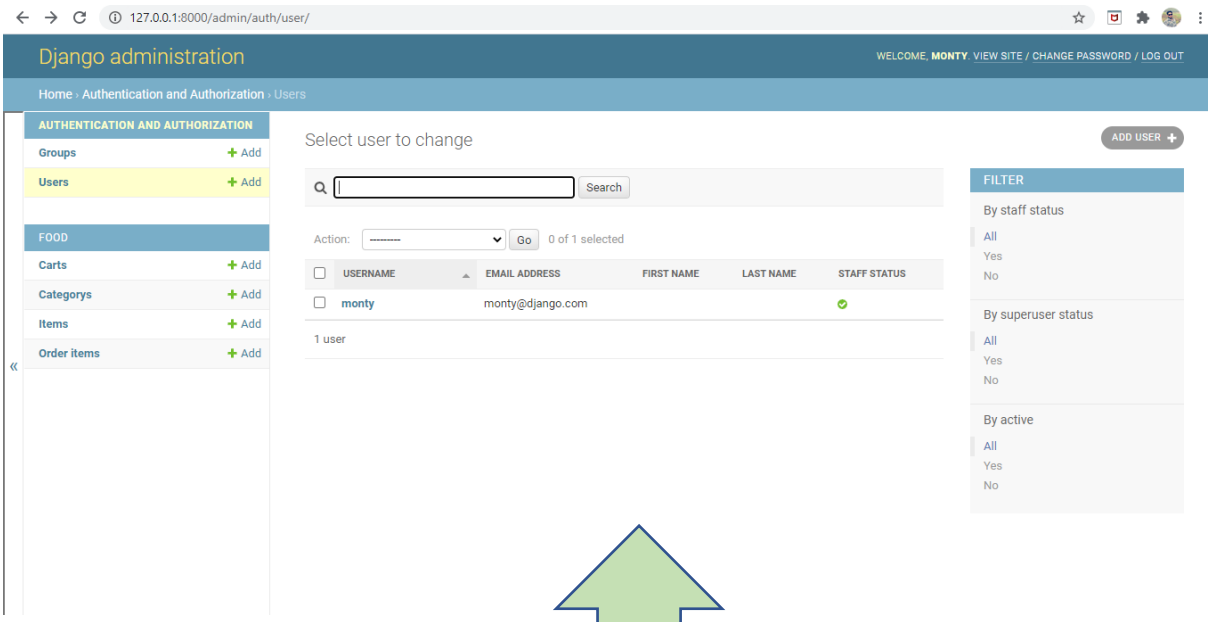
If The New User Has To Place The Order, He/She Has To First Register And His/Her Data Will Permanently Save In The Database

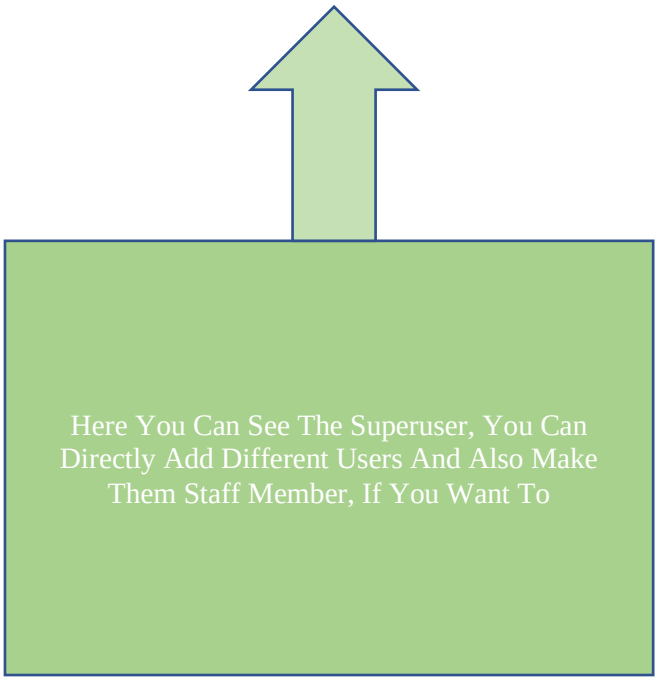


After The Order Has Been Placed And The Payment Has Been Completed, Thankyou Message Will Appear


YOUR TOTAL PAYABE AMOUNT IS RS. 0
CHECKOUT
When No Item Is Present


This Is The Admin Page Where Superuser Can Directly Access The Database
127.0.0.1:8000/admin/
Django administration
WELCOME, MONTY. VIEW SITE / CHANGE PASSWORD / LOG OUT
Site administration
AUTHENTICATION AND AUTHORIZATION
Groups + Add Change
Users + Add Change
FOOD
Carts + Add Change
Categorys + Add Change
Items + Add Change
Order items + Add Change
Recent actions
My actions
monty
Cart
2 of BURGER
Order item
Item object (2)
Item
Item object (2)
Item
Item object (16)
Item
Item object (15)
Item
Item object (14)
Item
Item object (13)
Item
Item object (12)
Item
Item object (11)
Item


127.0.0.1:8000/admin/auth/user/
Django administration
WELCOME, MONTY. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Users
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
FOOD
Carts + Add
Categorys + Add
Items + Add
Order items + Add
Select user to change
ADD USER +
Search
Action: ---------- Go 0 of 1 selected
USERNAME
EMAIL ADDRESS
FIRST NAME
LAST NAME
STAFF STATUS
monty
monty@django.com
1 user
FILTER
By staff status
All
Yes
No
By superuser status
All
Yes
No
By active
All
Yes
No


Here You Can See The Superuser, You Can Directly Add Different Users And Also Make Them Staff Member, If You Want To

RESULTS

APPLICATIONS OF THE PROJECT

- Makes the **ordering** process easier.
- Efficient customer and **order** management.
- Monitor your expenses incurring in real-time.
- Free and cheap marketing if possible
- Better customers data.
- The convenience of mobile **order.**
- Stay ahead of the competition by keeping view all around
- Grow your bottom line.

LIMITATIONS OF THE PROJECT

- Deliverymen put themselves in danger.
- Disguised increased expense.
- Revenue conflicts between the restaurants and delivery providers.
- Juggling with your health.

FUTURE WORK

The future work will be trying to connect this online food ordering web system with the mobile application and also a two Step verification through phone no. while making payment and also real time delivery location side by side.

LITERATURE REVIEW

Various case studies have highlighted the problems faced while[1.] setting up a restaurant Some of the problems found during the survey in the existing system are listed below:

• To place the orders customer visits the restaurant, checks the menu items available in the restaurant, and chooses the items required, then places the order and then do the payment. This method demands manual work and time on the part of the customer.

• When the customer wants to order over the phone, customer is unable to see the physical copy of the menu available in the restaurant, this also lacks the verification that the order was placed for the appropriate menu items. Every restaurant needs someone or the other to take
the order personally or over phone, to offer the customer a rich experience and even to process the payment.

An online food ordering system is developed where the customers can make an order for the food and avoid the hassles of waiting for the order to be taken by the waiter. Using the application, the end users register online, read the E-menu card and select the food from the e-menu card to order food online. Once the customer selects the required food item the chef will be able to see the results on the screen and start processing the food. This application nullifies the need of a waiter or reduces the workload of the waiter. The advantage is that in a crowded restaurant there will be chances that the waiters are overloaded with orders and they are unable to meet the requirements of the customer in a satisfactory manner. Therefore by using this application, the users can directly place the order for food to the chef online. In conclusion an online food ordering system is proposed which is useful in small family run restaurants as well as in places like college cafeteria, etc. This project can later be expanded on a larger scale. It is developed for restaurants to simplify their routine managerial and operational task and to improve the dining experience of the clients. This also helps the

restaurant owners develop healthy customer relationships by providing reasonably good services. The system also enables the restaurant to know the items available in real time and make changes to their food and beverage inventory based on the orders placed and the orders completed.

REFERENCES

1) Trupthi B, Rakshitha Raj R, Online Food Ordering System, International Journal of Recent !Technology and Engineering, , July 2019

2.) Mayurkumar Patel,Grand Valley State University, Online Food Order System for Restaurants, 2015

3.) Charlene Li, Miranda Mirosa, Review of Online Food Delivery Platforms and their Impacts on Sustainability, Department of Food Science, University of Otago, June 10,2020

4.) Adamya Shyam, Nitin Mukesh, A Django Based Educational Resource Sharing Website, Banaras Hindu University,2016