EAT AND ROLL - AN ONLINE FOOD ORDERING SYSTEM

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DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF M.C.A (Master of Computer Applications) OF ANNA UNIVERSITY



July 2023

DEPARTMENT OF COMPUTER APPLICATIONS COIMBATORE INSTITUTE OF TECHNOLOGY

(Autonomous Institution affiliated to Anna University)

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Mini-Project Work Second Semester

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Bonfide record of Work done by PRATHEESH J V (71762251022) SOORYA HARSHA P (71762251035)

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ABSTRACT

An Online Food Ordering System is proposed here which simplifies the food ordering process. The proposed system shows an user interface and update the menu with all available options so that it eases the customer work. Customer can choose multiple foods from multiple restaurants to make an order and can choose the payment method that they prefer.

The order confirmation is sent to the customer. The order is placed in the queue and updated in the database and returned in real time. This system assists the staff to go through the orders in real time and process it efficiently with minimal errors.

The system consists of three main components a customer-facing website, a restaurant-facing dashboard, and a back-end database. The customer-facing website allows customers to browse the menus of participating restaurants, select items, and place orders. The restaurant-facing dashboard allows restaurant staff to view and process orders. The back-end database stores all of the data related to the system, including customer profiles, restaurant menus, and order history.

The online food ordering system will provide a number of benefits for both customers and restaurants. For customers, the system will make it easier and more convenient to order food online. For restaurants, the system will provide a way to manage orders more efficiently and track inventory more effectively.

PREFACE

I. INTRODUCTION

This chapter introduces the Online Food Ordering System. It elaborates the problem selection, problem statement, solution to the problem and the social impact.

II. SYSTEM ANALYSIS

This chapter contains information about the system requirements, software requirements specification and both functional and non-functional requirements.

III. SYSTEM DESIGN

This chapter contains details about the architecture of the Online Food Ordering System and the data flow diagram. It also contains sequence diagrams and all the tables that are used in this application.

IV. SYSTEM TESTING

This chapter explains the system testing for the online food ordering system including functional testing to verify all features works as intended, performance testing to ensure responsiveness, and security testing to ensure secure payment processing and data protection.

V. CONCLUSION

This chapter concludes by specifying the uses of the Online Food Ordering System if it is implemented successfully in real world.

I INTRODUCTION

1.1 PROBLEM DEFINITION

The traditional process of ordering food through phone calls or in-person visits to restaurants can be time-consuming and inconvenient for customers. There is a need for an online platform that streamlines the ordering process, saving time and effort for customers.

Many restaurants only accept orders during specific hours or have limited delivery options. This restricts customers from ordering their preferred meals at their convenience. The online food ordering system should provide a 24/7 accessible platform that allows customers to place orders and select delivery or pickup times according to their preferences.

Customers often face challenges in accessing comprehensive menus, detailed dish descriptions, ingredients, and pricing information. The system should provide a user-friendly interface that allows customers to browse through complete menus, view high-quality images of dishes, access nutritional information, and make informed decisions.

Traditional methods of order management can lead to errors, miscommunication, and delays in processing orders. The online food ordering system should provide a streamlined order management interface for restaurants, facilitating accurate order processing, minimizing errors, and improving efficiency.

Traditional food ordering methods often have limited payment options, such as cash on delivery. The system should integrate multiple secure online payment gateways to offer customers a variety of convenient payment methods, including credit/debit cards, digital wallets, and online banking.

1.2 REQUIREMENT SPECIFICATION

1.2.1 HARDWARE REQUIREMENT SPECIFICATION

Technical descriptions of the computer components and capabilities are described by hardware

specification. The hardware specification for the EatAnd Roll- An online food ordering system is

given below.

Processor: Intel i3

• Processor speed: 3.7 GHz

RAM: 4 GB (Min)

• Hard Disk: 100 GB

1.2.2 SOFTWARE REQUIREMENTS SPECIFICATION

The software descriptions of the hackathon and its functionality are explained in the

software specification. Software requirements are given below.

Operating system: Windows OS

Front-end: HTML, CSS, JavaScript, JQuery, Ajax, Python

Back-end: PostgreSql

Framework: django

2

II SYSTEM ANALYSIS

2.1 SYSTEM DESCRIPTION

EXISTING SYSTEM

The current system may have a limited number of restaurants available for ordering, restricting the choices for customers. There could be instances where the menu items or prices displayed on the platform do not match the actual offerings or prices at the restaurants, leading to confusion and dissatisfaction for customers. The existing system may have a complex or unintuitive user interface, making it difficult for customers to browse through menus, customize orders, or find relevant information. Customers may not receive timely updates on the status of their orders, causing frustration and uncertainty about when their food will be delivered. The system may experience glitches or errors during the payment process, leading to failed transactions or double charges, which can result in inconvenience and dissatisfaction for customers. The system may lack effective order management features, leading to delays or errors in processing orders, which can impact delivery times and overall customer experience.

PROPOSED SYSTEM

The proposed online food ordering system provides customers with the convenience of ordering food from their favourite restaurants through a web-based platform or mobile application. The system allows users to browse through a variety of menus, select dishes, customize their orders, and make payments electronically.

Upon accessing the online food ordering system, customers are required to create an account by providing their personal information, including name, contact details, and delivery address. Registered users can log in to the system using their credentials and access various functionalities. The system allows customers to search for nearby restaurants based on location, Users can view restaurant profiles, including their menu, prices. They can add items to their virtual shopping cart,

customize their orders, and proceed to the checkout process. Customers are presented with various payment options, such as credit/debit card, digital wallets, or cash on delivery. Once the payment is completed, the order is confirmed, and the customer receives an order confirmation with details such as estimated delivery time. Overall the proposed online food ordering system simplifies the process of ordering food by providing a user-friendly platform, a wide selection of restaurants and menus, secure payment options.

2.2 USE CASE MODEL

The use case diagram is the simplest way of understanding the system. It summarizes the details of the system and the interactions with the system. The various components of the basic use case model are Actor, use cases, and associations. A use case means essential functionality of any working system. The following figure 2.1 depicts the use case diagram for the proposed system which provides a visual representation of the main functionalities and interactions Online Food Ordering System. It illustrates the different actors involved, such as donors and registered users, along with the system itself. The diagram showcases key use cases, including donors, registering the food details, requesting the food from donor, feedback from receiver. Each use case outlines the steps and interactions involved in completing specific tasks within the application. The use case diagram serves as a valuable tool for understanding the application's functionality, identifying user interactions, and providing a foundation for further development, testing, and documentation.

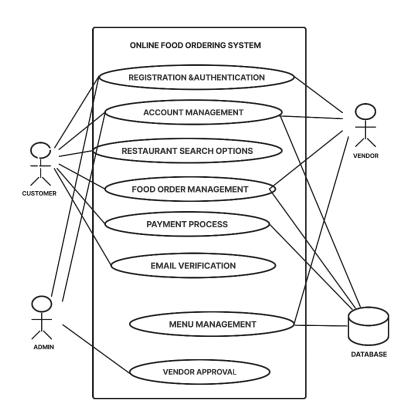


Fig 2.2.1 USE CASE DIAGRAM

2.4 SOFTWARE REQUIREMENTS SPECIFICATION

FUNCTIONAL REQUIREMENT

- User Registration and Authentication: Users should be able to create accounts by providing their personal information, email account, and optional contact details. The system should verify user credentials during login to ensure secure access to their accounts.
- **Vendor Management**: Vendors should be able to register their profiles and provide necessary information such as contact details, menu items, and pricing. The system should facilitate the onboarding process for new vendors, including verification of their credentials.

- Vendors should be able to create, update, and manage their menus, including adding new dishes, setting prices, and specifying availability
- Email Verification: The user account will be activated only after the user has verified his account through the link sent to his/her email account. The vendor account verification status will also be updated through the email account.
- Advanced Search: The customers will be able to search for the vendors available in a particular range of area through the filter option implemented with the help of geocoding and places API. The exact latitude and longitude details can the fetched with the help of these API's. Similarly with the help of googles auto complete and places API's the expected places will be auto suggested in the searchbox.
- Edit profile: Both the customers and vendors will be able to edit their profiles including changing names, address, profile photo and location details etc.
- Order Placement and Summary: Users should be able to add items from multiple vendors to their shopping cart, specify quantities, and customize orders. Users should have a clear summary of their order, including items, quantities, and total cost, before proceeding to checkout.

NON- FUNCTIONAL REQUIREMENTS

- **Performance:** The system should provide quick responses to user actions, ensuring minimal delay in processing orders, payments, and other operations. The system should handle a large number of concurrent users and transactions without performance degradation.
- Reliability: The system should be highly available, minimizing downtime and ensuring continuous operation. The system should be able to recover gracefully from failures, ensuring that critical functions remain operational. Regular data backups should be performed to protect against data loss, and there should be a robust recovery mechanism in place.

- Security: Authentication and authorization: The system should have secure mechanisms
 for user authentication and authorization to ensure that only authorized personnel can
 access sensitive information or perform critical actions. Sensitive user data, such as
 personal information and payment details, should be encrypted and stored securely to
 prevent unauthorized access.
- Scalability: The system should be able to handle increasing workload by adding more resources to individual components. The system should support adding more vendor partners and handling a growing number of users without significant performance degradation.
- **Usability:** The system should have an intuitive and user-friendly interface that allows vendors to easily manage their menus, track orders, and perform other relevant tasks. The system should provide clear documentation and training resources to help vendors understand and effectively use the system's features.

III SYSTEM DESIGN

3.1 ARCHITECTURAL DESIGN

Architecture diagram is the process of creating visual representations of software system components. In a software system, the term architecture refers to various functions, their implementations, and their interactions with each other. As software is inherently abstract, architecture diagrams visually illustrate the various data movements within the system. They also highlight how the software interacts with the environment around it.

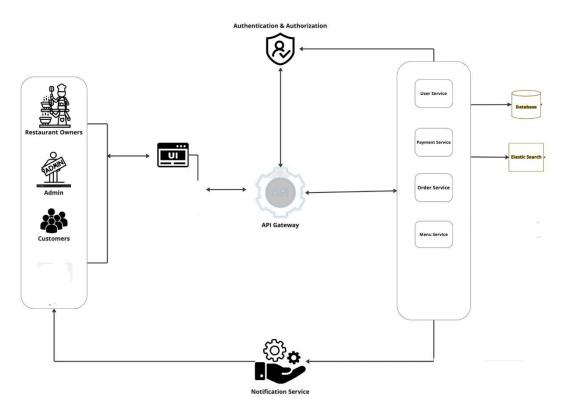


Fig.3.1.1 ARCHITECTURAL DESIGN

3.2 STRUCTURAL DESIGN

DFD Level 0 is also called a Context Diagram. It's a basic overview of the whole system or process being analysed or modelled. It's designed to be an at-a-glance view, showing the system as a single high-level process, with its relationship to external entities.

DFD LEVEL 0

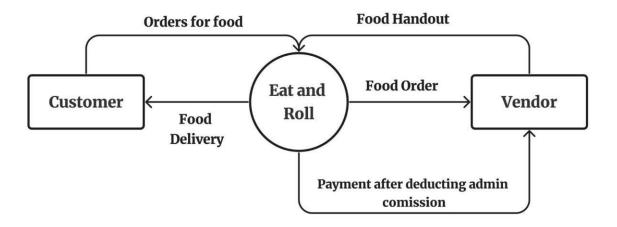


Fig.3.2.1 DFD LEVEL 0

LEVEL 1 FOOD ORDER

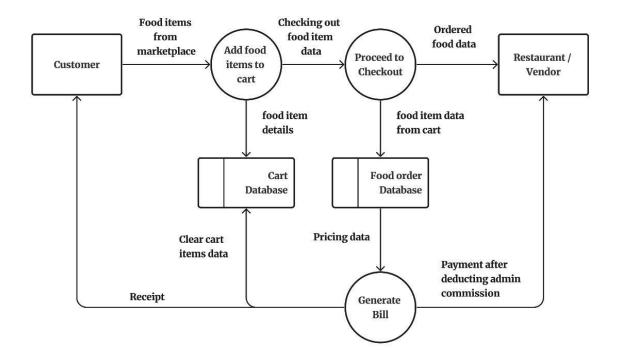


Fig.3.2.2 LEVEL 1 DFD FOOD ORDER

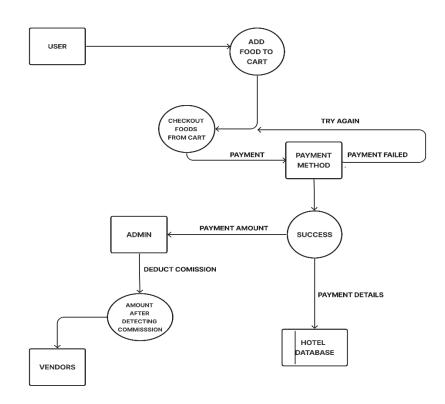


Fig.3.2.3 LEVEL 1 DFD FOR PAYMENT

3.3 BEHAVIOURAL DESIGN

Activity Diagram

An activity diagram simply depicts visual representation of the flow of activities or processes within a system or project. It is a type of behavioral diagram in UML that shows the sequence and dependencies of various activities or actions. It represents the flow of activities or actions within a system or process. It visually depicts the sequential and parallel steps involved in completing a specific task or achieving a particular goal. Activity diagrams are commonly used in software development and business process modeling to analyze, design, and document workflows.

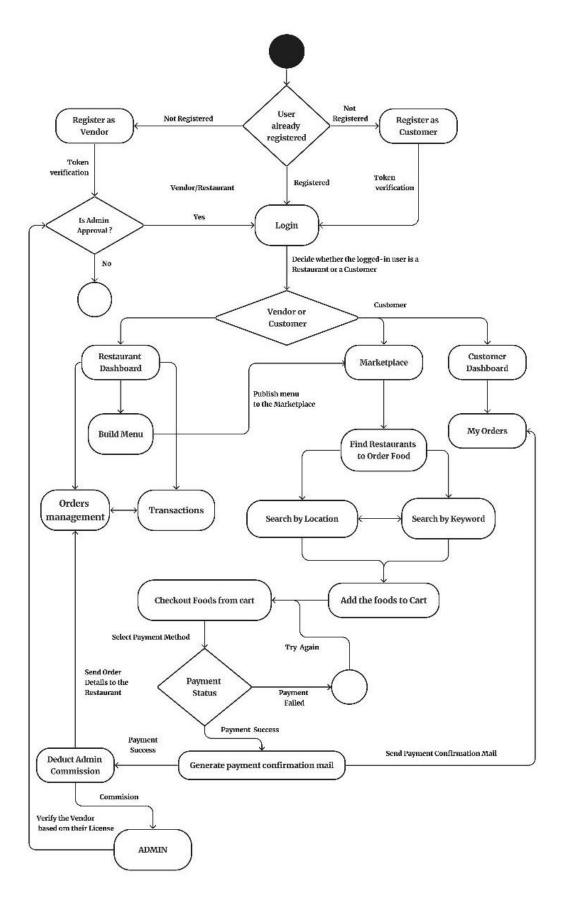


Fig.3.2.4 Activity Diagram Online Food Ordering

3.4 TABLE DESIGN

CUSTOMER TABLE

The customer table is used to keep track of all registered users on a website or application. This information can be used to identify between users, vendors, admin authenticate users, and send users notifications.

3.4.1 USER TABLE

Field Name	Data Type	Description	Constrains
User_id	Bigint	User ID	Primary key
First_name	Character varying (50)	First name of User	Not Null
Last_name	Character varying (50)	Last name of User	Not Null
Email	Character varying (100)	Email Id of the User	Unique = True
Username	Character varying (100)	Username for the account	Unique = True
Password	Character varying (128)	Password of the user	Not Null
Phone_number	Bigint	Phone number of the user	Not Null
Role	Smallint	1 represents Vendor account and 2 represents Customer account	Not Null
Is_admin	Bool	Tells whether the user is admin or not	Default = False
Is_active	Bool'	Tells whether the account is activated or not	Default = False

Created_date Timestamp with Date and time of the Not Null timezone account creation Modified_date Date and time of the Not Null Timestamp with timezone account modified Last_login Timestamp with Date and time of the Not Null timezone last login

3.4.2 USER PROFILE TABLE

Field Name	Data Type	Description	Constrain
User_profile_id	Bigint	User profile ID	Primary key
User_id	Bigint	User ID	Foreign key
Profile_picture	Character varying (30)	URL of the user cover photo	Only jpg,jpeg and png
Cover_photo	Character varying (30)	URL of the user cover photo	Only jpg,jpeg and png
address	Character varying (30)	Address of the User	Not Null
Country	Character varying (30)	Country of the user	Not Null
State	Character varying (30)	State of the user	Not Null
City	Character varying (30)	City of the user	Not Null
Pin_code	int	Pin_code of the user address	Not Null
Created_at	Timestamp with time zone	Date and time of the account creation	Not Null
Modified_at	Timestamp with time zone	Date and time of the account modified	Not Null

3.4.3 VENDOR TABLE

Field Name	Data Type	Description	Constrain
Vendor_id	Bigint	Vendor ID	Primary Key
User_id	Bigint	User ID	Foreign key
User_profile_id	Bigint	User profile ID	Foreign key
Vendor_name	Character varying (50)	Name of the vendor	Not Null
Created_at	Timestamp with time zone	Date and time of the account creation	Not Null
Modified_at	Timestamp with time zone	Date and time of the account modified	Not Null

3.4.4 CATEGORY TABLE

Field Name	Data Type	Description	Constrain
Category_id	Bigint	Category ID	Primary Key
Vendor_id	Bigint	Vendor ID	Foreign Key
Category_name	Character varying (50)	Name of the food Category	Not Null
Description	Text	Description of the category	Null = True
Created_at	Timestamp with time zone	Date and time of the account creation	Not Null
Updated_at	Timestamp with time zone	Date and time of the category modified	Not Null

3.4.5 FOOD ITEM TABLE

Field Name	Data Type	Description	Constrain
Food_title_id	Bigint	Food ID	Primary Key
Category_id	Bigint	Category Id	Foreign Key
Vendor_id	Bigint	Vendor Id	Foreign Key
Food_title_slug	Character varying (50)	Slug of the Vendor	Unique = True
Vendor_license	Character varying (50)	URL of the vendor license	Not Null
Food_title	Character varying (50)	Name of the food	Not Null
Description	Text	Description of the Food	Null = True
Price	Numeric (10,2)	Price of the food item	Not Null
Created_at	Timestamp with time zone	Date and time of the Account created	Not Null
Updated_at	Timestamp with time zone	Date and time of the food item details last modified	Not Null

3.4.5 PAYMENT TABLE

Field Name	Data Type	Description	Constrain
Payment_id	Bigint	ID of the Payment	Primary Key
User_id	Bigint	ID of the user	Foreign Key
Transaction_id	Character varying(100)	ID of the transaction	Not Null

Payment_method	Character	Method of Payment	Not Null
	varying(100)	(Paypal / razorpay)	
Amount	Int	Amount of the	Not Null
		ordered food	
Status	Character	Success or Failure	Not Null
	varying(100)	status of the payment	
Created_at	Timestamp with the	Date and time of the	Not Null
	time zone	payment	

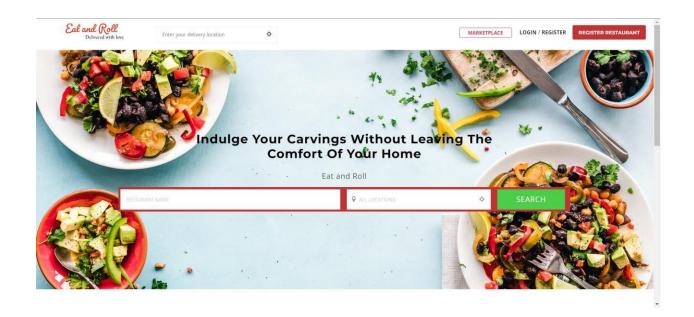
3.4.6 ORDER TABLE

Field Name	Data Type	Description	Constrain
Order_id	Bigint	ID of the Order	Primary Key
Payment_id	Bigint	ID of the Payment	Foreign Key
User_id	Bigint	ID of the User	Foreign Key
Order_number	Character varying(20)	Order number	Unique = True
First_name	Character varying (50)	First name of User	Not Null
Last_name	Character varying (50)	Last name of User	Not Null
Email	Character varying (100)	Email Id of the User	Unique = True
Address	Character varying (30)	Address of the Customer	Not Null
Country	Character varying (30)	Country of the Customer	Not Null
State	Character varying (30)	State of the Customer	Not Null
Pin_code	Int	Pin_code of the Customer address	Not Null
Tax_data	Jasonb	GST and CSGT of the ordered food	Not Null
Total_tax	Int	Sum of both GST and CGST	Not Null
Payment_method	Character varying(20)	Method of payment (Paypal / Razorpay)	Not Null

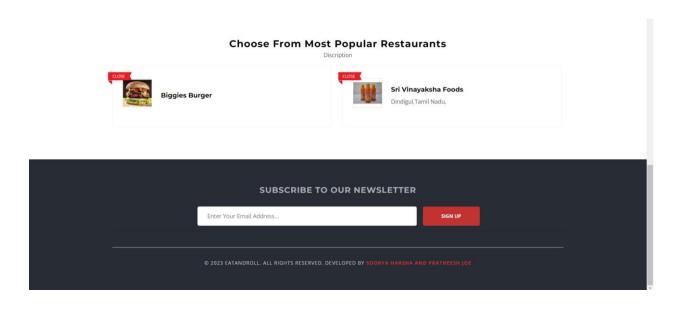
Is_ordered	Bool	Wheather the food is	Not Null
		Ordered or not	
Created_at	Timestamp with time	Date and time of the	Not Null
	zone	Account created	
Updated_at	Timestamp with time	Date and time of the	Not Null
	zone	food item details last	
		modified	

3.5 USER INTERFACE DESIGN:

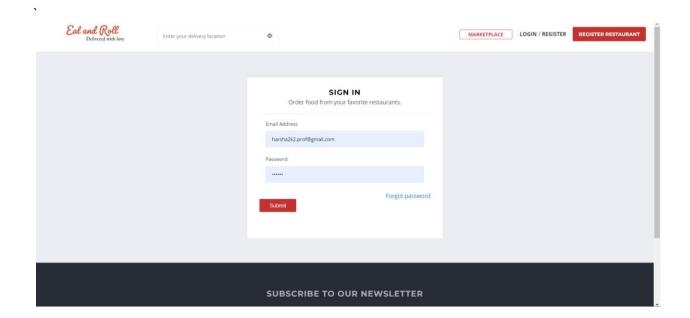
SCREENSHOTS:



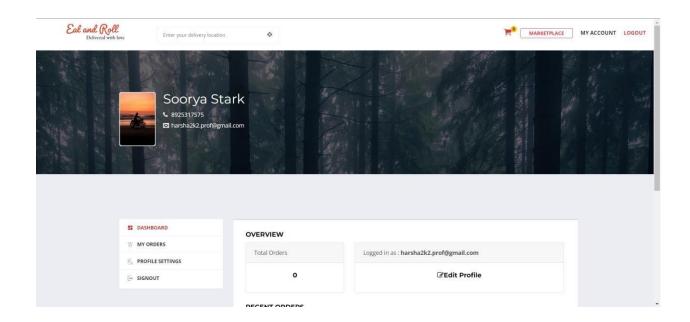
SCREEN 3.5.1 - HOME PAGE



SCREEN 3.5.2 - HOME PAGE FOOTER

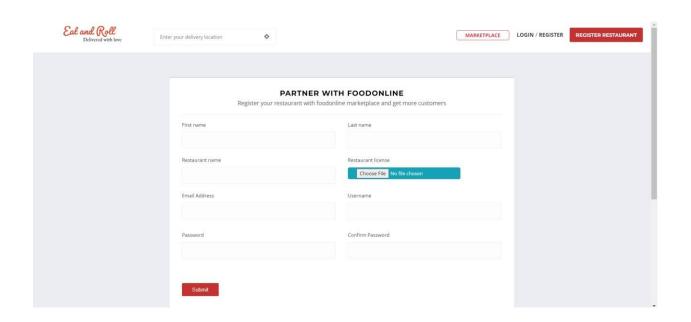


SCREEN 3.5.3 - LOGIN PAGE

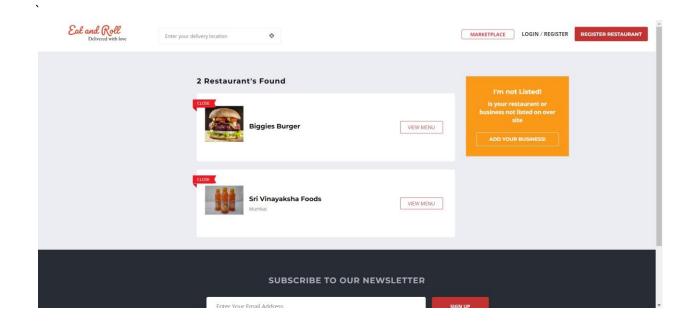


SCREEN 3.5.4 - CUSTOMER DASHBOARD

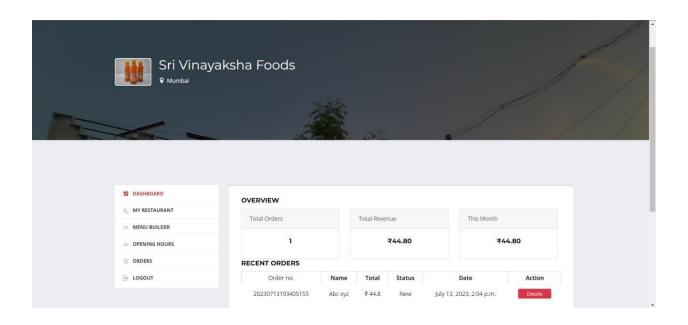
SCREEN 3.5.5 – CUSTOMER PROFILE SETTINGS



SCREEN 3.5.6 – VENDOR REGISTRATION



SCREEN 3.5.7 - MARKETPLACE



SCREEN 3.5.8 – VENDOR DASHBOARD

Manage Your Restaurant

Manage Your Restaurant

Update Profile Picture

Choose File No file chosen

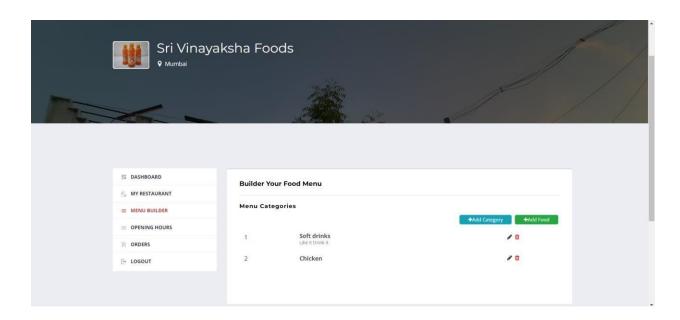
Update Cover Photo

Choose File No file chosen

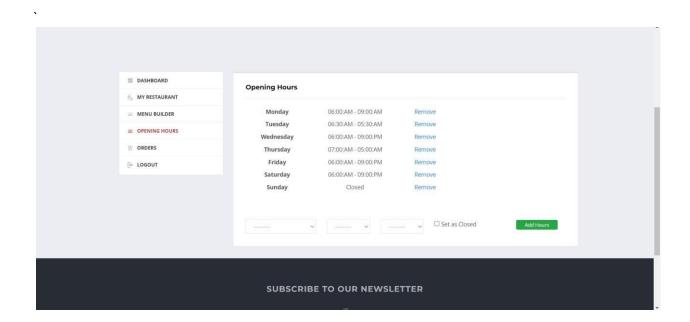
Update License

Choose File No file chosen

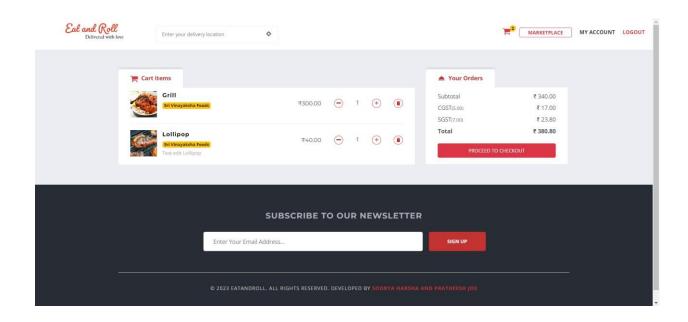
SCREEN 3.5.9 – VENDOR PROFILE SETTINGS



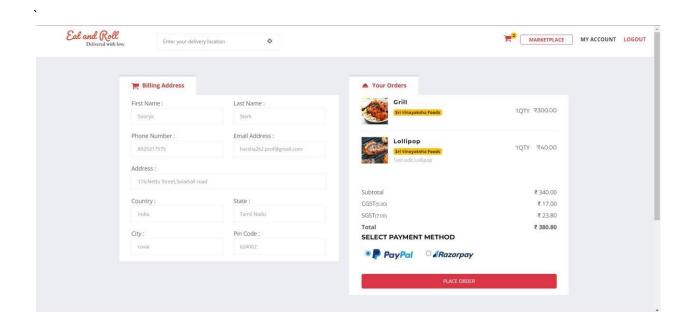
SCREEN 3.5.10 – MENU BUILDER



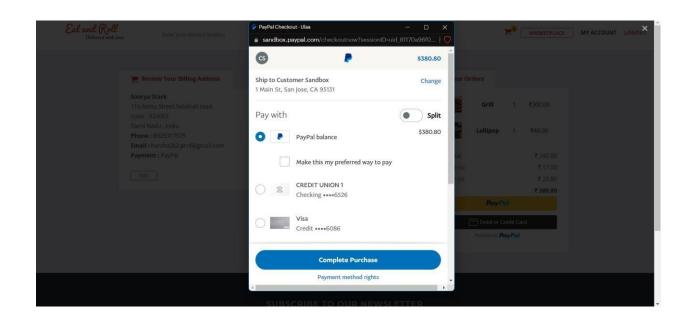
SCREEN 3.5.11 – OPENING HOURS SETTINGS



SCREEN 3.5.12 - CART



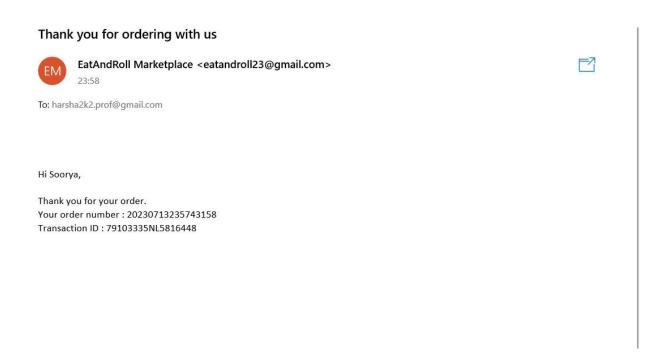
SCREEN 3.5.13 – PLACE ORDER



SCREEN 3.5.14 – PAYMENT GATEWAY



SCREEN 3.5.15 – ORDER SUMMARY



SCREEN 3.5.16 – EMAIL CONFIRMATION

3.6 CODE DESIGN:

USER AND VENDOR REGISTRATION:

```
def registerUser(request): if request.user.is authenticated:
messages.warning(request, "You are already logged in")
return redirect("custDashboard")
                                  elif request.method ==
"POST":
             print(request.POST)
                                      form =
UserForm(request.POST)
                              if form.is valid():
       first name = form.cleaned data["first name"]
last name = form.cleaned data["last name"]
username = form.cleaned data["username"]
email = form.cleaned data["email"]
                                          password
= form.cleaned data["password"]
                                        user =
User.objects.create user(
first name=first name,
last name=last name,
                               email=email,
                              password=password,
username=username,
      )
       user.role = User.CUSTOMER
      user.save()
      # send verification email
       mail subject = "Please activate your account" email template =
       "accounts/emails/account verification email.html"
       send verification email(request, user, mail subject, email template)
      messages.success(request, "Your account has been registered successfully!")
return redirect("registerUser")
                                  else:
      print("Invalid form")
print(form.errors)
                   else:
```

```
form = UserForm()
context = {
"form": form,
  }
  return render(request, "accounts/registerUser.html", context)
def registerVendor(request):
request.user.is authenticated:
messages.warning(request, "You are already logged in")
return redirect("myAccount")
  elif request.method == "POST":
                        form = UserForm(request.POST)
    # store the data
v form = VendorForm(request.POST, request.FILES)
if form.is valid() and v form.is valid():
       first name = form.cleaned data["first name"]
last name = form.cleaned data["last name"]
username = form.cleaned data["username"]
email = form.cleaned data["email"] password =
form.cleaned data["password"] user =
User.objects.create user(
first name=first name,
                               email=email,
last name=last name,
username=username,
                              password=password,
      )
      user.role = User.VENDOR
                                        user.save()
vendor = v form.save(commit=False)
                                           vendor.user =
           vendor name =
user
v form.cleaned data["vendor name"]
      vendor.vendor slug = slugify(vendor name) + "-" + str(user.id)
```

```
user profile = userProfile.objects.get(user=user)
vendor.user profile = user profile
                                         vendor.save()
                                       mail subject = "Please activate your
       # send verification email
account"
                email template =
"accounts/emails/account verification email.html"
send verification email(request, user, mail subject, email template)
       messages.success(
request,
         "You account has been registered successfully! Please wait for the approval.",
       )
       return
                   redirect("registerVendor")
else:
       print("invalid form")
       print(form.errors)
                           else:
    form
                    UserForm()
v form = VendorForm()
  context
"form": form,
    "v_form": v_form,
  }
  return render(request, "accounts/registerVendor.html", context)
ORDER PLACEMENT:
@login required(login url="login") def
place order(request):
  cart items = Cart.objects.filter(user=request.user).order by("created at")
cart count = cart items.count() if cart count <= 0:
    return redirect("marketplace")
```

```
vendors ids = []
for i in cart items:
    if i.fooditem.vendor.id not in vendors ids:
vendors ids.append(i.fooditem.vendor.id)
print(vendors ids)
  get tax = Tax.objects.filter(is active=True)
subtotal = 0 total data = {} k = {}
i in cart items:
    fooditem = FoodItem.objects.get(pk=i.fooditem.id, vendor id in=vendors ids)
v id = fooditem.vendor.id
    if v id in k:
       subtotal = k[v id]
                                subtotal +=
fooditem.price * i.quantity
                                 k[v id] =
subtotal
             else:
                     fooditem.price * i.quantity
       subtotal =
k[v id] = subtotal
    # calculate tax data
tax dict = \{\}
                  for i
in get tax:
       tax type = i.tax type
                                   tax percentage = i.tax percentage
tax amount = round((tax percentage * subtotal) / 100, 2)
tax dict.update({tax type: {str(tax percentage): str(tax amount)}}})
                                                                        #
print(tax dict)
    # Construct the total data
                                  total data.update({fooditem.vendor.id:
{str(subtotal): str(tax dict)}})
                                print(total data)
  subtotal = get cart amounts(request)["subtotal"]
total tax = get cart amounts(request)["tax"]
                                              grand total
```

```
= get cart amounts(request)["grand total"]
                                             tax data =
get cart amounts(request)["tax dict"]
  if request.method == "POST":
    form = OrderForm(request.POST)
                       order = Order()
form.is valid():
order.first name = form.cleaned data["first name"]
order.last name = form.cleaned data["last name"]
order.phone = form.cleaned data["phone"]
order.email = form.cleaned data["email"]
order.address = form.cleaned data["address"]
order.country = form.cleaned data["country"]
order.state = form.cleaned data["state"]
                                              order.city =
                                 order.pin code =
form.cleaned data["city"]
form.cleaned data["pin code"]
                                      order.user =
request.user
                   order.total = grand total
order.tax data = json.dumps(tax data)
order.total data = ison.dumps(total data)
order.total tax = total tax
                                 order.payment method =
request.POST["payment method"]
                                         order.save()
order.order number = generate order number(order.id)
order.vendors.add(*vendors ids)
                                       order.save()
      # Razorpay payment
      DATA = {
         "amount": float(order.total) * 100,
         "currency": "INR",
         "receipt": "receipt #" + order.order number,
         "notes": {"key1": "value3", "key2": "value2"},
       }
```

```
client.order.create(data=DATA)
      rzp order =
rzp order id = rzp order["id"]
                        {
      context
"order": order.
         "cart items": cart items,
         "rzp order id": rzp order id,
         "RZP KEY ID": RZP KEY ID,
         "rzp amount": float(order.total) * 100,
       }
      return render(request, "order/place order.html", context)
else:
      print(form.errors)
  return render(request, "order/place order.html")
PAYMENT PROCESSING:
@login required(login url="login") def
payments(request):
  # check if the request is ajax
  if
    request.headers.get("x-requested-with") == "XMLHttpRequest"
and request.method == "POST"
  ):
    # store the payment details in the payment model
order number = request.POST.get("order number")
transaction id = request.POST.get("transaction id")
payment_method = request.POST.get("payment_method")
status = request.POST.get("status")
```

```
print(order number, transaction id, payment method, status)
                                                                     order =
Order.objects.get(user=request.user,order number=order number)
                                                                     print(order)
                                                                                      payment = Payment(
user=request.user,
                         transaction id=transaction id,
                                                              payment method=payment method,
amount=order.total,
                          status=status,
    payment.save()
    # update the Oder model is order to tru
order.payment = payment
                            order.save()
order.is ordered = True
    # move the cart items to order food model
cart items = Cart.objects.filter(user=request.user)
for item in cart items:
       ordered_food = OrderedFood()
ordered food.order = order
                                  ordered food.payment
= payment
                 ordered food.user = request.user
ordered food.fooditem = item.fooditem
ordered food.quantity = item.quantity
ordered food.price = item.fooditem.price
       ordered food.amount = item.fooditem.price *
                                                          item.quantity
                                                                            # total amount
ordered food.save()
    # send order confirmation email to customer
    mail subject = "Thank you for ordering with us"
mail template = "order/order confirmation email.html"
context = {
                  "user": request.user,
       "order": order,
       "to email": order.email,
    send notification(mail subject, mail template, context)
```

```
# send order received email to vendor
mail subject = "You have received a new order"
mail template = "order/new order received.html"
to emails = []
                   for i in cart items:
                                             if
i.fooditem.vendor.user.email not in to emails:
to emails.append(i.fooditem.vendor.user.email)
    context
"order": order,
       "to email": to emails,
    send notification(mail subject, mail template, context)
    # clear the cart if the payment is success
cart items.delete()
                       response = {
       "order number": order number,
       "transaction id": transaction id,
    return JsonResponse(response)
    # Return back to ajax with the status success or failure
  return HttpResponse("Payments view")
```

AFTER ORDER CONFIRMATIONS:

IV SYSTEM TESTING

4.1 Unit Testing

Unit testing focuses verification efforts on the smallest unit of software design, the module. This is also known as "Module Testing" The modules are tested separately this testing is carried out during programming stage itself. In this step each module is found to be working satisfaction as regard to the expected output from the module.

4.2 Integration Testing

Integration testing focuses on the design and construction of the software architecture. Data can be lost across an interface; one module can have adverse effect on another sub functions and show on. Thus, integration testing is a systematic technique for constructing test to uncover errors associated with in the interface. In this project, all the modules are companied and then the entire program is tested as a whole.

4.3 Validation Testing

Validation testing is the requirement established as a part of software requirement analysis is validated against the software that has been constructed. This test provides the final assurance whether the software needs all functional, behavioural and performance requirements Thus, the proposed system under consideration has been tested by using validation testing and found to be working satisfactory.

4.4 Test Case Table

Test Case ID	Test Case Description	Expected Result	Actual Result	Test Case Result
TC001	User name and password Should be validated once we click "Login" button	User name and the Password should be validated while login	User name and the Password are validated while login	Passed
TC002	If the User name and the Password doesn't match after clicking the "Login" button then the alert message "Password does not match" should pop up	The error message should be displayed for the incorrect user name or password	The error message is displayed for incorrect Username or password	Passed
TC003	Administrator should be able to approve or block the vendor account	Administrator Should approve or block the vendor account	Administrator can approve and block the vendor account	Passed
TC004	While account registration Token should be sent to the provided email and should be validated to create an account	Token should be generated and send to the provided email and validate the email	Token is generated and sent to the provided email and successfully validated the email	Passed
TC005	Vendor can able to create, view,edit and delete their food category and food items	Vendor should create, view,edit and delete their food category and food items	Vendor can create, view,edit and delete their food category and food items	Passed

TC006	Customers can able to create, view,edit and delete their personal details	Customers should able to create, view,edit and delete their personal details	Customers can create, view,edit and delete their personal details	Passed
TC007	Administrator can able create, view,edit and delete their User accounts	Administrator should be able create, view,edit and delete their User accounts	Administrator can create, view, edit and delete their User accounts	Passed
TC008	Customer can able to add food items from different restaurants to their cart	Customer should able to add food items from different restaurants to their cart	Customer can add food items from different restaurants to their cart	Passed
TC009	Customer can able to make payment of their choice (paypal / razorpay)	Customer should able to make payment of their choice (paypal / razorpay)	Customer can make payment of their choice (paypal /razorpay)	Passed
TC010	Send Order confirmation mail to both Customer and vendor after payment is success	Order confirmation mail should be sent to both Customer and vendor after payment is success	Order confirmation mail is sent to both Customer and vendor after payment is success	Passed
TC011	Clear the cart items of the Customers once the order is placed	Cart items of the Customers should be cleared once payment is successful	Cart items of the Customers are cleared once payment is successful	Passed
TC012	Customer should be able to search a restaurant based on name	Customer should be able to search a restaurant based on name	Customer couldn't search a restaurant based on name	Failed

TC013	Customer should be	Customer should	Customer	Failed
	able	be able to search	couldn't	
	to search a restaurant	a restaurant	search a	
	based on location	based on	restaurant	
		location	based on	
			location	

V CONCLUSION

Online food ordering systems have become increasingly popular in recent years. They offer a convenient and efficient way for customers to order food from their favourite restaurants. The systems also provide a number of benefits for restaurants, such as increased sales and improved customer satisfaction.

The future of online food ordering systems looks bright. As more and more people become comfortable with online shopping, the demand for online food ordering is likely to grow. In addition, the development of new technologies, such as mobile apps and voice recognition, will make online food ordering even more convenient for customers.

As a result, online food ordering systems are poised to become an increasingly important part of the food industry. They offer a valuable way for customers and restaurants to connect, and they are likely to play a major role in the way people order food in the years to come.

FUTURE SCOPE

The future enhancement of the online food ordering project aims to elevate the user experience, expand the service offerings, and embrace emerging technologies. The following are the key areas of focus for future development:

- Advanced Personalization: Implement advanced personalization techniques using AI and machine learning algorithms to analyze user preferences, order history, and behavior. This will enable the platform to provide personalized recommendations, customized promotions, and tailored menus based on individual preferences, dietary restrictions, and previous orders.
- Voice and Natural Language Processing: Integrate voice recognition and natural language processing capabilities to enable customers to place orders, make inquiries, and interact

- with the system using voice commands. This enhancement will offer a hands-free and intuitive ordering experience through smart devices and voice assistants.
- Social Media Integration: Enable seamless integration with popular social media platforms to allow customers to share their food experiences, write reviews, and recommend restaurants to their friends. This feature will enhance user engagement, promote user-generated content, and attract new customers through social media referrals.
- Live Order Tracking: Implementing a live order tracking feature allows customers to track the progress of their delivery in real-time. This can be achieved by integrating GPS technology with the delivery personnel's mobile devices. Customers can access a map view that shows the current location of the delivery person and their estimated time of arrival.

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