Project Specification

Team number: 36
Team members: Yuhan Xiao (yuhanx), Yezhen Gong (yezheng), Tianyi Zhu (tzhu1)

Product Backlog: a complete list of functionality

Group	Page	Action	Action Description
Customer	Dropdown Bar	Redirect to different customer pages	Redirect to Main Page, Shopping Cart Page, Orders History Page, Account Info Page
		Log out	Log out the current customer
	Register Page	Register	Register as a customer
		Switch to login	Switch to the login page
	Login Page	Login	Log in as a customer
		Switch to register	Switch to the login page
	Main Page	Browse	Browse a list of vendors with brief vendor information
		Click	Click on each vendor to redirect to the specific menu page of a vendor
	Shopping Cart Page	Browse	Browse a list of meal items currently in the shopping cart
		Edit	Change the quantity of each meal item
		Proceed to checkout	Redirect the customer to the 3rd-party payment page
	Venmo Payment Page	Pay	The customer is able to enter their payment information on the 3rd-party venmo page and confirm payment
	Payment Status Page	Browse	Show the customer a success or failure message depending on the payment status
		Send Email	Send the user an email with the QR Code for order pickup and pickup information including vendor name,

			timeslot
	Account Info Page	Update	Update user image, password, email, phone, the email notification setting
	Orders History Page	Browse	Browse the history of the placed orders of the customer for the past week, showing order status as "placed", "picked up", and "expired"
Vendor	Register Page	Register	Register as a vendor
		Switch to login	Switch to the login page
	Login Page	Login	Log in as a vendor
		Switch to register	Switch to the register page
	Vendor Main Page (Menu Management)	Add Meal	Add a new meal to today's menu
		Browse latest 3 meals added	Browse the list of latest 3 meals added by the current vendor
	Dropdown Bar	Logout	Logout the current vendor
		Switch to ordering status	Use dropdown bar to switch to ordering status page
		Switch to menu management	Use dropdown bar to switch to menu management page
		Switch to vendor info	Use dropdown bar to switch to account information page
	Account Info Page	Update	Update image, password, phone, location, car and time slot
	Pickup Confirmation Page	Pickup Confirmation	After scanning the QR Code of order, vendor will browse the content of an order, and confirm that the order has been picked up
	Ordering Status Page	Browse ordering status	Check the number of meals sold for each meal on today's menu

First Sprint backlog: A description of functionalities and corresponding product owners

Group	Page	Action	Action Description	Product Owner
Customer	Dropdown Bar	Redirect to different customer pages	Redirect to Main Page, Shopping Cart Page, Orders History Page, Account Info Page	Yezhen Gong
		Log out	Log out the current customer	
	Register Page	Register	Register as a customer	Tianyi Zhu
		Switch to login	Switch to the login page	
	Login Page	Login	Log in as a customer	Tianyi Zhu, Yuhan Xiao
		Switch to register	Switch to the login page	
	Main Page	Browse	Browse a list of vendors with brief vendor information	Tianyi Zhu, Yezhen Gong, Yuhan Xiao
		Click	Click on each vendor to redirect to the specific menu page of a vendor	
	Shopping Cart Page	Browse	Browse a list of meal items currently in the shopping cart	Tianyi Zhu, Yezhen Gong
		Edit	Change the quantity of each meal item	
	Account Info Page	Update	Update user image, password, email, phone, the email notification setting	Tianyi Zhu, Yezhen Gong
	Orders History Page	Browse	Browse the history of the placed orders of the customer for the past week, showing order status as "placed", "picked up", and "expired"	Yuhan Xiao
Vendor	Register Page	Register	Register as a vendor	Tianyi Zhu

		Switch to login	Switch to the login page	
	Login Page	Login	Log in as a vendor	Tianyi Zhu, Yuhan Xiao
		Switch to register	Switch to the register page	
	Vendor Main Page (Menu Management)	Add Meal	Add a new meal to today's menu	Yezhen Gong, Yuhan Xiao
		Browse latest 3 meals added	Browse the list of latest 3 meals added by the current vendor	
	Dropdown Bar	Logout	Logout the current vendor	Yezhen Gong
		Switch to ordering status	Use dropdown bar to switch to ordering status page	
		Switch to menu management	Use dropdown bar to switch to menu management page	
		Switch to vendor info	Use dropdown bar to switch to account information page	
	Account Info Page	Update	Update image, password, phone, location, car and time slot	Tianyi Zhu, Yezhen Gong
	Ordering Status Page	Browse ordering status	Check the number of meals sold for each meal on today's menu	Yuhan Xiao

Models

```python
from django.db import models
from django.contrib.auth.models import User


class CustomerProfile(models.Model):
    customer = models.OneToOneField(User,
                                    default=None, on_delete=models.PROTECT,
                                    related_name='customer_profile')
    notification_enable = models.BooleanField(default=True)
    andrew_id = models.CharField(max_length=20)
    phone = models.CharField(max_length=12)
    profile_pic = models.FileField(blank=True)

    def __str__(self):
        return 'Customer Profile for: ' + self.customer.first_name + ' ' + \
               self.customer.last_name + ' , andrew ID is: ' + self.andrew_id


class VendorProfile(models.Model):
    vendor = models.OneToOneField(User, default=None, on_delete=models.PROTECT,
                                  related_name='vendor_profile')
    phone = models.CharField(max_length=12)
    company_name = models.CharField(max_length=20)
    license = models.CharField(max_length=100)
    time_slot = models.CharField(max_length=200)
    parking_location = models.CharField(max_length=200)
    car = models.CharField(max_length=200)
    profile_pic = models.FileField(blank=True)

    def __str__(self):
        return 'Vendor Profile for: ' + self.company_name


class Order(models.Model):
    total_amount = models.IntegerField()
    customer_profile = models.ForeignKey(CustomerProfile,
                                         default=None, on_delete=models.PROTECT)
    paid = models.BooleanField(default=False)
    status = models.CharField(max_length=20)

    def __str__(self):
        return 'Order amount is: ' + str(self.total_amount) + \
               ' , for customer: ' + self.customer_profile.customer.first_name + ' ' + \
               self.customer_profile.customer.last_name + \
               ' , status is: ' + self.status


class VendorMeal(models.Model):
    meal_detail = models.CharField(max_length=200)
    price = models.IntegerField()
    vendor = models.ForeignKey(VendorProfile,
                               default=None, on_delete=models.PROTECT)
    number_ordered = models.IntegerField(default=0)
    avail_quantity = models.IntegerField()
    drink = models.CharField(max_length=50)
    meal_type = models.CharField(max_length=20)
    meal_name = models.CharField(max_length=50)

    def __str__(self):
        return 'Vendor meal detail is: ' + self.meal_detail + \
               ' , price is: ' + str(self.price) + \
               ' , vendor is: ' + self.vendor.company_name + \
               ' , number ordered is: ' + str(self.number_ordered) + \
               ' , drink is: ' + self.drink


class CustomerMeal(models.Model):
    picked_up = models.BooleanField(default=False)
    vendor_meal = models.ForeignKey(VendorMeal,
                                    # when a VendorMeal is deleted, all associated
                                    # CustomerMeals are deleted on cascade
                                    default=None, on_delete=models.CASCADE)
    date = models.DateField()
    order = models.ForeignKey(Order, default=None, on_delete=models.PROTECT)
    quantity = models.IntegerField(default=0)

    def __str__(self):
        return 'Customer meal status is: ' + str(self.picked_up) + \
               ' , meal type is: ' + str(self.vendor_meal) + \
               ' , date is: ' + str(self.date) + \
               ' , order is: ' + str(self.order)
```

Mockups

CUSTOMER   VENDOR

Enter Customer Credentials

Username:

natalie97

Password:

••••••••••••••••••

Register for New Account

RESET   **LOGIN**

Login page

Enter Customer Information

Last name:

Alex

First name:

Chung

Andrew ID:

alexc

Email:

alex9797@gmail.com

Username:

alex97

Password:

•••••••••••••

Confirm password:

•••••••••••••

Phone:

2024760734

RESET   **REGISTER**

Register page(customer)

Enter Vendor Information

Phone:
4125512837

Email:
roseteacafe2019@gmail.com

Company name:
Rose Tea Cafe

License:
123AQW1

Username:
rosetea

Password:
••••••••••••

Confirm password:
••••••••••••

RESET   **REGISTER**

Register page(vendor)

Takeout - Customer

Meng Cha

Location: Hunt Library
Time: 11am-2pm
Car: License Plate 123SA8

meng

Location: Cyert Hall
Time: 12pm-1pm
Car: Grey Audi

Rose Tea Cafe

Location: Tepper Quad
Time: 5-7pm
Car: Grey Audi

Main Page/Restaurant List(customer)

Rose Tea Cafe

Location:

Time:

Meal A Lunch $12

Description: Spicy Fish Fillet in Boiling Broth
Drink: Milk Tea or Watermelon Juice
982 Left

1

ADD TO CART

Meal B Dinner $12

Description: Chongqing Chicken
Drink: Milk Tea or Watermelon Juice
321 Left

1

ADD TO CART

Meal C Dinner $6

Description: Steamed Broccoli With Soy Sauce
Drink: Milk Tea or Watermelon Juice
61 Left

1

ADD TO CART

Meal Details(customer)

Shopping Cart

rosetea   Quantity: 5

Meal A
Meal details: Spicy Fish Fillet in Boiling
Broth

CANCEL

rosetea   Quantity:
                            124

Meal B
Meal details: Chongqing Chicken

CANCEL

rosetea   Quantity:
                            1232

Shopping Cart(customer)

Status:

Total: 8940

Vendor: Rose Tea Cafe
Meal: Spicy Fish Fillet in Boiling Broth Lunch $ 12
   x 5

Vendor: Rose Tea Cafe
Meal: Chongqing Chicken Dinner $ 12
   x 124

Vendor: Rose Tea Cafe
Meal: Steamed Broccoli With Soy Sauce Dinner $ 6
   x 1232

Order History(customer)

Meal Name	Quantity Ordered	Unit Price	Total Profit
Meal A	0	12	0
Meal B	0	12	0
Meal C	0	6	0
Overall Profit	0		

Main page/Order Summary(vendor)

rosetea

Meal Name:

Meal B

Price($):

12

Quantity Available:

321

Meal Description:

Chongqing Chicken

Drink Description:

Milk Tea or Watermelon Juice

Meal Type:

Dinner

ADD NEW MEAL

Meal Name: Meal A

Meal Details: Spicy Fish Fillet in Boiling Broth

Drink: Milk Tea or Watermelon Juice

Available Quantity: 982

Add Meals(vendor)

Account Info

FILE

Old Password

New Password

Email:

alex9797@gmail.com

Phone:

2024760734

Notification

Off   On

UPDATE   LOG OUT

Profile Page(customer)

rosetea

Account Info

Info Updated!

FILE

Old Password
••••••••••••

New Password

Email:
roseteacafe@gmail.com

Phone:
4125518712

Location:
Cyert Hall

Time Slot:
12:00pm-1:30pm, 5:00pm-6:30pm

Car:
Grey Audi, License Plate ASJD12

UPDATE   LOG OUT

Profile Page(vendor)