Project specification

Web Application Development Team 1
Xin Wang, Kylie Hsieh, Yuxuan Wu, Yanyu Chen

1. Product Owner:

Xin Wang Andrew ID: xinwang3

2. Product Backlog

Register function

New customers can register a new account to use this Yummy application. Also, users may also choose to log in using their Google account. To register, users need to type in their first name, last name, password, username, and phone number.

Login function

Customers can log in using their username and password. After logging in, users will be automatically directed to the menu page, where they can place an order or reserve a table or just browse the menu.

Reservation function

Customers can reserve a table after typing in the number of people in the group, reservation time, and date. After making a reservation, the admin user (host) will receive a message about the reservation details.

Order function

If the customers choose to order, there are two buttons where they can choose to take out or dine in. If the customer selected dine-in, the page will prompt the user to enter the table number. After submitting the table number, the website will redirect the user to the order page. Customers can add a dish to their order by clicking the "+" button and clicking the "favorite" button to add the dish to their favorite list under the logged-in user identity

View dish detail

Customers can check the detailed information about the specific dish. Users are allowed to make comments under the dishes, add the dishes to their order or use the "favorite" button to collect the dishes.

Check out function

Customers can view their order summary, including the quantity, unit price, and total price, and send the order to the restaurant. Users on this page could modify the quantity of dishes they ordered or remove dishes they do not want.

3. First Sprint Backlog

Task	People in charge of this task	
Create models and forms	All four members	
Register and login function	Yanyu Chen	
UI - Home page and Menu page	Yuxuan Wu and Xin Wang	
UI - Reserve page and Dish page	Yanyu Chen	
UI - Option page and Summary page	Kylie Hsieh	

4. Implementation of Models

Please see the appendix screenshots for detailed implementations of Django models

Model	Description	
Profile	This model is for saving customer information, including customer name and phone number.	
Category	This model represents the category that a dish belongs to, including appetizers, meat, vegetable, soup, dessert, and snacks.	
Food	This model saves all the dishes in a restaurant, including dish name, price, description, calories, is the dish spicy or not, and is the dish vegan food or not.	
Comment	This model saves customers' comments for each dish.	
FoodSet	This model saves the dish and its corresponding quantity for an order that a customer placed	
Order	This model is for saving customers' orders.	
Table	This model saves the table information in the restaurant, including the related orders, the occupied customer, and open time.	
Reservation	This model saves the customers' reservation information.	

4. HTML mockups

Login Page

Yummy!		Register Login
	Login	
	Username: Password:	
	Cubmit	

Register Page

Yummy! Register Login

Register

Username:
Password:
Confirm Password:
First Name:
Last Name:
Phone Number:

Submit

Home page

Yummy!
Register Login

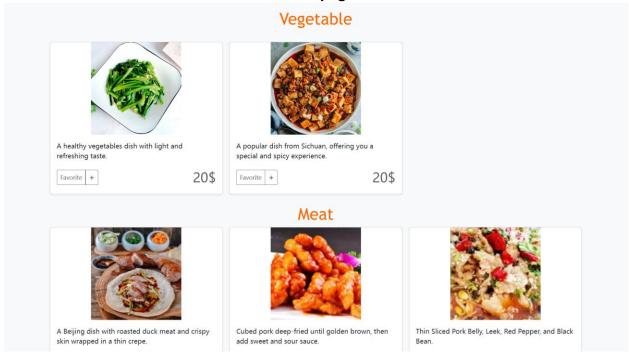
Team 1 restaurant

We have the best Chinese cuisine here!

Appetizer



Menu page



Dish detail page





Reservation page <u>b b</u> Yummy! Logout Reserve Your Table Enjoy your food Step 1: find a table Date: #people: Step 2: your details Last Name: Phone Number: Special Comment: **Option page** <u>b b</u> Yummy! Logout Team 1 restaurant Is this order take-out or dine in? Take Out Dine In Please enter your table number if you are dining in: Submit Order summary page Yummy! Logout Cart Menu Image **Dish Name** Quantity Price -+ Fried Pork Dumplings \$10 Remove

-

Scallion Pancakes

+

\$15

Remove

Appendix: Django Models

```
from django.db import models
from django.contrib.auth.models import User
class Profile(models.Model):
    user = models.OneToOneField(User, default=None, on_delete=models.PROTECT)
    phone_number = models.CharField(max_length=200, editable=True, blank=True)
class Category(models.Model):
class Food(models.Model):
    price = models.FloatField()
    picture = models.ImageField()
    content_type = models.CharField(max_length=50)
    category = models.ForeignKey(Category, on_delete=models.PROTECT)
    calories = models.FloatField()
    is_spicy = models.BooleanField(default=False)
    is_vegetarian = models.BooleanField(default=False)
    text = models.CharField(max_length=500)
    creation_time = models.DateTimeField()
    creator = models.ForeignKey(User, on_delete=models.PROTECT)
    post_under = models.ManyToManyField(Food, related_name="comments")
class FoodSet(models.Model):
    food = models.ForeignKey(Food, on_delete=models.PROTECT)
    quantity = models.IntegerField()
    foods = models.ManyToManyField(FoodSet, related_name="orders")
    customer = models.ForeignKey(User, on_delete=models.PROTECT)
    order_time = models.DateTimeField()
    is_paid = models.BooleanField(default=False)
    total_price = models.FloatField()
class Table(models.Model):
    orders = models.ManyToManyField(Order, related_name="table")
    customer = models.ForeignKey(User, on_delete=models.PROTECT)
    open_time = models.DateTimeField()
class Reservation(models.Model):
    num_customers = models.IntegerField(blank=False)
    table = models.ForeignKey(Table, on_delete=models.PROTECT)
first_name = models.CharField(max_length=200, editable=True, blank=False)
last_name = models.CharField(max_length=200, editable=True, blank=False)
    phone_number = models.CharField(max_length=200, editable=True, blank=False)
```