

# Project Specification: Tartan Eats

## Team members

Ke Ning: kening; Chuchu Wu: chuchuw; Yanjun Wang: yanjunwa; Kun Liu: kunliu

Product Owner of Sprints1: Yanjun Wang, Kun Liu

## Product Backlog & First Sprint Backlog

- Registration and Login Module:

| PageName   | Description / User Story  | Functionality / Action  | Sprint # | Owner              |
|--|---|---|----------|--------------------|
| Registration<br>- Restaurant Tab<br>- Customer Tab<br>- Driver Tab | New restaurant/driver/customer needs to register an account to sell food/place order/delivery food  | Take valid info of the different identity and store in the database;<br><br>Redirect to logged in home page if registration is successful;<br><br>Provide a link to Login Page if the restaurant already has an account | 1        | Chuchu Wu, Ke Ning |
| Login  | User login in the application by providing their username and password/ or through OAuth.<br><br>(Customer/ Restaurant/ Driver share the same login page) | Check the validation of username and password;<br><br>Redirected to the according page;   | 1        | Chuchu Wu, Ke Ning |

- Restaurant Module

| PageName              | Description / User Story  | Functionality / Action   | Sprint # | Owner       |
|-----------------------|---|--|----------|-------------|
| Restaurant Profile    | Restaurant admin needs to edit information and upload/edit menu | Display/Edit restaurant information<br><br>Display cuisine and allow admin to upload/edit/delete cuisine<br><br>Allow admin to logout, reverse to Login Page | 1        | Yanjun Wang |
| Restaurant Order List | Restaurant admin should be able to manage and view the orders   | Provide different tabs to display order in 3 different status<br><br>Order list provide link to go to detailed   | 1        | Yanjun Wang |

|                             |   |   |  |  |
|-----------------------------|---|---|--|--|
|                             |   | <p>Order Information Page</p> <p>Order list should display basic information of an order (time, amount, etc.)</p> <p>Provide link to go back to Restaurant Profile Page</p> <p>Allow admin to logout, reverse to Login Page</p>   |  |  |
| Resaurant Order Information | Restaurant admin should be able to view order details                       | <p>If the order is “completed”, this page should display order information (Note: complete_time should not be empty)</p> <p>If the order is “pending”, this page should display order information without complete_time and driver information, but provide a button to go to Driver Pool Page instead</p> <p>If the order is “in delivery”, this page should display order information without complete_time, but should provide driver information and a map (the map is using GoogleMap API to show delivery destination and driver current location)</p> <p>Provide links to go back to Restaurant Profile Page and Order List Page</p> <p>Allow admin to logout, reverse to Login Page</p> |  |  |
| Restaurant Driver Pool      | Restaurant admin should be able to assign delivery driver to pending orders | <p>Display all registered drivers and their status;</p> <p>Allow restaurant admin assign delivery task to “available” driver</p> <p>Provide links to go back to Restaurant Profile Page and Order List Page</p> <p>Allow admin to logout, reverse to Login Page</p>   |  |  |

- Driver Module

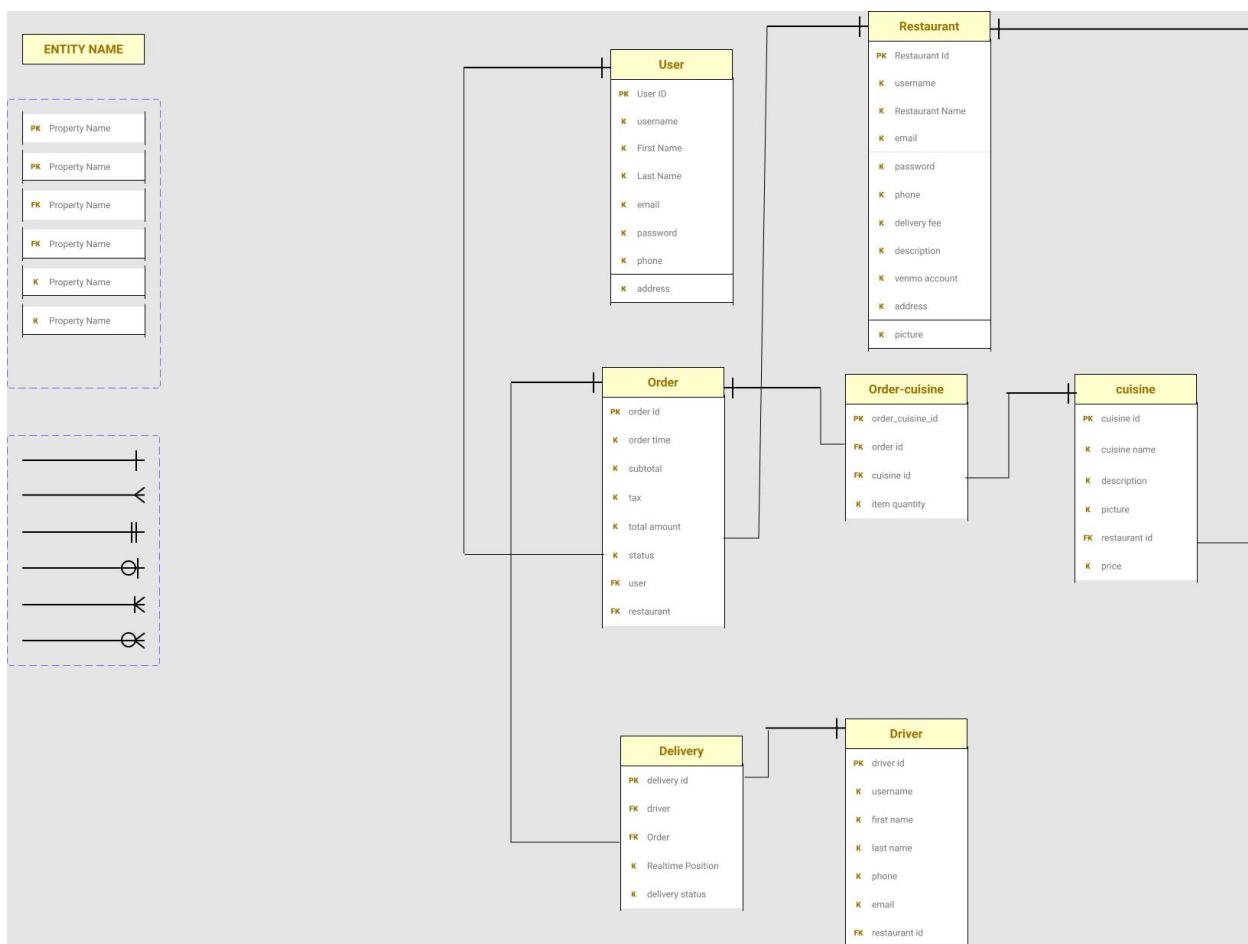
| PageName       | Description / User Story   | Functionality / Action   | Sprint # | Owner |
|----------------|--|--|----------|-------|
| Driver Profile | <p>Drivers should be able to see and edit their basic information including phone number, first name, last name;</p> <p>Driver should be able to see completed history orders as well as order in delivery with GoogleMap guidance</p> | <p>Display driver basic information (driver number included)</p> <p>Allow driver to edit basic information (driver number excluded)</p> <p>If the driver is “busy”, this page’s Delivery Tab should display the order that the driver is delivering now, the displayed order information should only contains order number, customer phone number and destination address</p> <p>If the driver is “busy”, this page’s Delivery Tab should also display a GoogleMap picture showing routes from driver’s current location to destination</p> <p>If the driver is “busy”, this page’s Delivery Tab should also display a form to display driver’s last submission of location andd submission time, together with a inputbox for driver to update the location</p> <p>If the driver is “busy”, this page’s Delivery Tab should also have a button for driver to complete order; when this button is clicked, the order and delivery status should be marked as “completed”, and the driver status should be changed from “busy” to “available” so that this driver could be assigned with task again in the Driver Pool</p> <p>If the driver is “available” , which means no order in delivery, this page’s Delivery Tab should be empty, only basic information of the driver should be displayed</p> <p>No matter the driver is “busy” or “available”, this page’s Completed Order Tab should display history orders completed by this driver in a list, similar to Restaurant Order List</p> <p>Allow driver to logout, reverse to Login Page</p> |          |       |

- Client Module

| PageName                | Description / User Story  | Functionality / Action  | Sprint # | Owner   |
|-------------------------|---|---|----------|---------|
| Customer Account        | Customer view and edit their basic personal information   | Upload profile picture;<br>Edit basic info like telephone/ email/ address etc;<br>Check some necessary fields not empty (telephone and address)   | 1        | Kun Liu |
| Global Restaurant Page  | Main page of Tartan Eats. Users can visit the global restaurant page as a logged-in customer or visitor   | Display all the registered restaurants by ranking on the distance to the customer (if logged in)<br><br>Display a brief introduction of the restaurant<br><br>Redirect customer to Single Restaurant Page when clicked on pic or name.  | 1        | Kun Liu |
| Single Restaurant Page  | User can visit a single restaurant page and selecting items. Logged-in customers can add items into shopping cart, otherwise an alert window will pop-up to remind user to login.<br><br>The page has a subpage of shopping cart to check items and place order | view a specific restaurant's menu<br><br>add cuisine to the shopping cart<br><br>Expand the shopping cart and edit items(delete/ preview subtotal)<br><br>submit the order to the Payment Page  | 1        | Kun Liu |
| Payment Page            | customer can review and check their order info and bill and pay the bill by scanning the QRcode of restaurant,  | display order information, including order #, order time, ordered items and quantity, detailed order bill, deliver address<br><br>QR code automatically generated for customers to pay via venmo<br><br>button to confirm payment/back to cart<br><br>after successful payment, mark the order status as 'paid' |          |         |
| History Order List Page | By clicking "My Order" on the navigation bar, customer can visit the historical page. Click on  | Displayed historical orders in chronological order.<br><br>Every order, basic order info will be  |          |         |

|            |   |  |  |  |
|------------|---|--|--|--|
|            | every order to redirected to the Order Page for further detail info.  | shown including order number, restaurant name, order time and order status   |  |  |
| Order Page | More detail info of a paid order, and if the order is in delivery, the driver's position will be shown in the google map on the page. | List more detailed info of order, including contact info of customer who placed the order, info of restaurant, order bill, etc.<br><br>Information of the driver who deliver the order. If the order status is "in delivery", driver's position will be pinned Google map. |  |  |

## Data Models and ER Diagram:



# UI Sketches

## 1. Registration Page

 **Tartan Eats**

Customer      Restaurant      Driver

username  

---

username is already taken!  
password  

---

confirm password  

---

passwords do not match!  
restaurant name  

---

restaurant name is already taken!  
restaurant address  

---

venmo account number  

---

delivery fee  

---

restaurant description (optional)  

---

email (optional)  

---

Please, enter valid email address  

---

phone (optional)  

---

**REGISTER**

ALREADY HAVE AN ACCOUNT? SIGN IN

 **Tartan Eats**

Customer      Restaurant      Driver

username  

---

username is already taken!  
phone  

---

address  

---

password  

---

confirm password  

---

first name (optional)  

---

last name (optional)  

---

email (optional)  

---

Please, enter valid email address  

---

**REGISTER**

ALREADY HAVE AN ACCOUNT? SIGN IN



Customer      Restaurant      Driver

username

username is already taken!

first name

last name

phone

email (optional)

Please, enter valid email address

password

confirm password

passwords do not match!

REGISTER

ALREADY HAVE AN ACCOUNT? SIGN IN

## 2. Login Page



username

username does not exist!

password

incorrect password!

LOGIN

REGISTER

### 3. Restaurant Profile Page

 **Tartan Eats**

## Sichuan Gourmet

328 Atwood St, Venmo : 8888

Description Input (Editable)

The best Sichuan cuisine in Downtown Pittsburgh....



SELECT FILE      SUBMIT

My Orders      [My Account](#)      Logout

Menu

- Spring Roll \$ 1.99      [EDIT](#)      [REMOVE](#)
- Garlic flavor pork \$ 14.99      [EDIT](#)      [REMOVE](#)
- Mu-shu Pork \$ 13.99      [EDIT](#)      [REMOVE](#)
- General Tso's Chicken \$ 12.99      [EDIT](#)      [REMOVE](#)
- Cashew Chicken \$ 13.99      [EDIT](#)      [REMOVE](#)
- Broccoli Beef \$ 13.99      [EDIT](#)      [REMOVE](#)
- Sesame shrimp \$ 15.99      [EDIT](#)      [REMOVE](#)

Editing this cuisine name      Description      \$ |   
Scallion Pancake.jpg      [SELECT FILE](#)      [CONFIRM](#)

Add cuisine

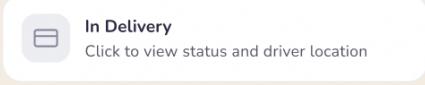
Editing this cuisine name      Description      \$ |   
Cold Sesame Noodle.jpg      [SELECT FILE](#)      [CONFIRM](#)

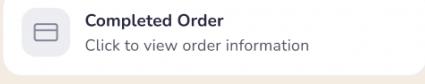
### 4. Restaurant Order List Page

Restaurant Order List

 **Tartan Eats**

 Pending Order  
Click to assign driver

 In Delivery  
Click to view status and driver location

 Completed Order  
Click to view order information

My Orders      [My Account](#)      Logout

|              |
|--------------|
| Order# 218   |
| Client name  |
| Time: xxxxx  |
| Amount: xxxx |
| Order# 196   |
| Order# 100   |
| Order# 90    |
| Order# 88    |
| Order# 87    |
| Order# 86    |

## 5. Restaurant Order Information Page

 **Tartan Eats**      [My Orders](#)      [My Account](#)      [Logout](#)

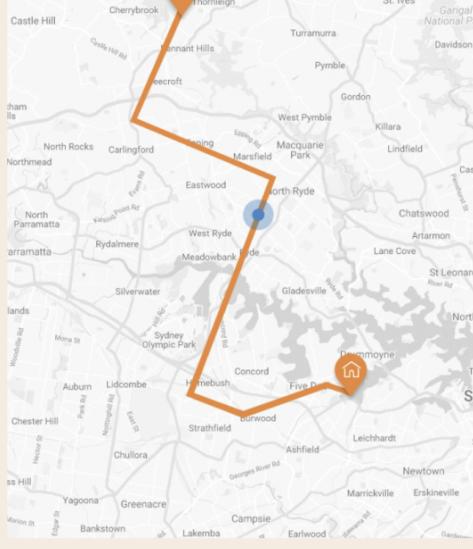
### Order# 20

Status: In Delivery

- Order Time: 03/11/2022 12:00pm
- Complete Time: --
- Customer email: customer@com
- Customer Phone Number: 412-xxx-xxxx
- Customer Address: xxx street, Apt xxx
- Venmo: 8888
- Driver: Bob Smith

|                            |          |
|----------------------------|----------|
| • 2 GRILLED CHICKEN BREAST | \$19.98  |
| • 2 GRILLED CHICKEN GYRD   | \$17.98  |
| <br>• SUBTOTAL             | \$ 37.96 |
| • TAX                      | \$ 1.14  |
| • TOTAL                    | \$ 39.10 |

**Delivery Tracking Map**



The map shows a delivery route starting in North Ryde, indicated by a blue dot, and ending at a house icon in Five Dock, indicated by an orange dot. The route follows major roads like Rydalmere Rd, Gladesville Rd, and Five Dock Rd, passing through areas like West Ryde, Meadowbank, and Homebush.

<Order in delivery>

 **Tartan Eats**      [My Orders](#)      [My Account](#)      [Logout](#)

### Order# 20

Status: Completed

- Order Time: 03/11/2022 12:00pm
- Complete Time: 03/11/2022 12:30pm
- Customer email: customer@com
- Customer Phone Number: 412-xxx-xxxx
- Customer Address: xxx street, Apt xxx
- Venmo: 8888
- Driver: Bob Smith

|                            |          |
|----------------------------|----------|
| • 2 GRILLED CHICKEN BREAST | \$19.98  |
| • 2 GRILLED CHICKEN GYRD   | \$17.98  |
| <br>• SUBTOTAL             | \$ 37.96 |
| • TAX                      | \$ 1.14  |
| • TOTAL                    | \$ 39.10 |

<Order completed>

[My Orders](#)[My Account](#)[Logout](#)

## Order# 20

Status: Pending

- Order Time: 03/11/2022 12:00pm
- Complete Time: --
- Customer email: customer@com
- Customer Phone Number: 412-xxx-xxxx
- Customer Address: xxx street, Apt xxx
- Venmo: 8888
- Driver: [ASSIGN DRIVER](#)
- 2 GRILLED CHICKEN BREAST \$19.98
- 2 GRILLED CHICKEN GYRD \$17.98
- SUBTOTAL \$ 37.96
- TAX \$ 1.14
- TOTAL \$ 39.10

<Order pending>

## 6. Restaurant Driver Pool Page

[My Orders](#)[My Account](#)[Logout](#)

## Driver Pool

Driver Information

Driver# 001 Bob Smith

Driver# 002 Olive Yew

Driver# 003 Maureen Biologist

Status

Available

Assign

Busy

Busy

## 7. Driver Profile Page

**Tartan Eats** [Logout](#)

**Driver#:** 001

**Username:** BobS [SUBMIT](#)

**FirstName:** Bob

**Phone Number** 412-xxx-xxxx [SUBMIT](#)

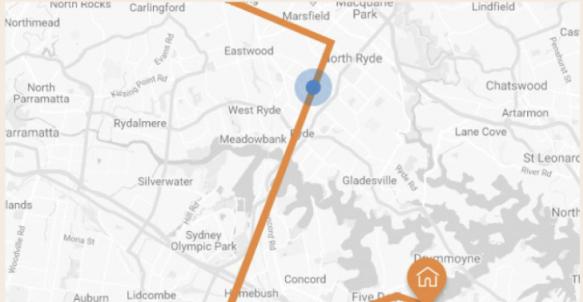
**In Delivery** Click to view location

**Completed Order**

**Order# 20**

**Customer Phone Number:** 412-xxx-xxxx

**Customer Address:** xxx street, Apt xxx



Your Last submitted location: 41°24'12.2"N 2°10'26.5"E

Last submission time: 03/11/2022 12:01pm

Update Location: [SUBMIT](#)

[COMPLETE ORDER](#)

**Tartan Eats** [Logout](#)

**Bob Smith**

**Driver#:** 001

**Phone Number** 412-xxx-xxxx [SUBMIT](#)

**In Delivery** Click to view location

**Completed Order**

**Order# 218**

**Order# 210**

**Order# 196**

**Order# 100**

**Order# 90**

**Order# 88**

**Order# 87**

**Order# 86**

## 8. Customer Account Page

The screenshot shows the 'Personal information' section of the customer account. It includes fields for First name (Jane), Last name (Robertson), Email (jane.robertson@example.com), and Phone number ((217) 555-0113). There are also fields for Address (Address Line 1: 4104, Biglow Bluv, City: Pittsburgh; Address Line 2: Apt xxx, Zip code: 15213). At the bottom are three buttons: 'Log out' (red), 'Discard changes' (gray), and 'Save changes' (orange).

## 9. Global Restaurant Page

The screenshot shows a grid of restaurant cards. Each card includes a thumbnail image, the restaurant name, a price range indicator, delivery time, and distance.

- Basomoti Kacchi Biriyani** (description): \$\$. 30-40 min, 1.7 miles. Image: A plate of biriyani with meat and a glass of juice.
- Song Sushi**: \$\$ 30-40 min, 1.7 miles. Image: A variety of sushi rolls.
- Burger King**: \$\$ 30-40 min, 1.7 miles. Image: A burger and fries.
- Basomoti Kacchi Biriyani**: \$\$ 30-40 min, 1.7 miles. Image: A plate of biriyani with meat and a glass of juice.
- Basomoti Kacchi Biriyani** (description): \$ 30-40 min, 1.7 miles. Image: A large sandwich or burger.
- Basomoti Kacchi Biriyani**: \$\$ 30-40 min, 1.7 miles. Image: A plate of biriyani with meat and a glass of juice.

## 10. Single Restaurant Page

Menu list Page

The page displays the menu of 'Tartan Eats'. It features three rice items, each with a thumbnail image, name, price (\$8.99), location (XXXXX, X XXXX), quantity selector (- 1 +), and an 'Add' button. To the right, a shopping cart icon shows a red notification bubble with the number '2'. The cart summary shows three items of 'Rice' from 'The planet cafe' at \$8.99 each, with a subtotal of \$17.89 and a 'Place Order' button.

| Item | Restaurant      | Quantity | Subtotal |
|------|-----------------|----------|----------|
| Rice | The planet cafe | 2        | \$ 17.89 |
| Rice | The planet cafe | 1        | \$ 8.99  |
| Rice | The planet cafe | 1        | \$ 8.99  |

Subtotal: \$17.89

Place Order

## 11. Payment Page

Payment

The page shows an order summary for 'Order# 218' with a status of 'Pending'. It lists the following details:

- Order Time: 03/11/2022 12:00pm
- Restaurant: Sushi
- Customer email: customer@com
- Customer Phone Number: 412-xxx-xxxx
- Customer Address: xxx street, Apt xxx
- Venmo: 8888

The order includes:

- 2 GRILLED CHICKEN BREAST \$19.98
- 2 GRILLED CHICKEN GYRD \$17.98

Summary:

| Line Item    | Amount          |
|--------------|-----------------|
| SUBTOTAL     | \$ 37.96        |
| DELIVERY FEE | \$ 2.50         |
| TAX          | \$ 1.14         |
| <b>TOTAL</b> | <b>\$ 41.60</b> |

Pay by Venmo

Scan Code using your Venmo App

Scan the QR code using your Venmo App

Pay xxx\$ to Reasturant XXX:

Back to the Cart

Finish Payment

## 12. History Order List Page

Order list

 **Tartan Eats**

Home    My Orders    My Account



Order# 218                      **In Delivery**

Order# 218                      **Complete**

Order# 218                      **Complete**

## 13. Order Page

Order page in delivery

 **Tartan Eats**

Home    My Orders    My Account

**Order# 218**

Status: Pending

- Order Time: 03/11/2022 12:00pm
- Customer email: customer@com
- Customer Phone Number: 412-xxx-xxxx
- Customer Address: xxx street, Apt xxx
- Venmo: 8888
- Driver: Waiting to be assigned...

- 2 GRILLED CHICKEN BREAST \$19.98
- 2 GRILLED CHICKEN GYRD \$17.98

- SUBTOTAL \$ 37.96
- TAX \$ 1.14
- TOTAL \$ 39.10

[View larger map](#)



Aarong, Gulshan  
Akij Plastics Ltd.  
Akij Group  
Western Tower  
Son Bhumi Office  
Sort  
Overpass Bridge Number  
Driver: xxxx    Phone number: xxx