Project Specification: Tartan Eats

Team members

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

Product Owner of Sprint 3: Ke Ning (AndrewID: kening)

Product Backlog & Sprint Backlog

- Restaurant Module

PageName	Description / User Story	Functionality / Action	Sprint #	Owner
Resaurant Order Information	Restaurant admin should be able to view order details	If the order is "completed", this page should display order information (Note: complete_time should not be empty) 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 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) Provide links to go back to Restaurant Profile Page and Order List Page Allow admin to logout, reverse to Login Page	2	Ke Ning, Yanjun Wang
Restaurant Driver Pool	Restaurant admin should be able to assign delivery driver to pending orders	Display all registered drivers and their status; Allow restaurant admin assign delivery task to "available" driver Provide links to go back to Restaurant Profile Page and Order List Page Allow admin to logout, reverse to	2	Ke Ning

		Login Page		

● Driver Module

PageName	Description / User Story	Functionality / Action	Sprint #	Owner
Driver Profile	Drivers should be able to see and edit their basic information including phone number, first name, last name; Driver should be able to see completed history orders as well as order in delivery with GoogleMap guidance	Display driver basic information (driver number included) Allow driver to edit basic information (driver number excluded) 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 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 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 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 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 No matter the driver is "busy" or "available", this page's Completed Order Tab should display	2	Ke Ning

		history orders completed by this driver in a list, similar to Restaurant Order List		
		Allow driver to logout, reverse to Login Page		

- Client Module

PageName	Description / User Story	Functionality / Action	Sprint #	Owner
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 QR code automatically generated for customers to pay via venmo button to confirm payment/back to cart after successful payment, mark the order status as 'paid'	2	Kun Liu
History Order List Page	By clicking "My Order" on the navigation bar, customer can visit the historical page. Click on every order to redirected to the Order Page for further detail info.	Displayed historical orders in chronological order. Every order, basic order info will be shown including order number, restaurant name, order time and order status	2	Kun Liu
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. Information of the driver who deliver the order. If the order status is "in delivery", driver's position will be pinned Google map.	2	Kun Liu
Customer Home page	Home page with all the restaurant	Choose restaurant to visit	2	Chuchu Wu
Singel Restaurant Page	Visit one restaurant and add food to shopping cart	Display all the cuisines in a restaurant Add delete food for shopping cart. Calculated subtotal for the cuisines. Place one order as adding status.	2,3	Chuchu Wu

- APIs

Feature	Description / User Story	Functionality / Action	Sprint #	Owner
Shopping Cart using Ajax	Customer can add dishes to the shopping cart.	The shopping cart will automatically change without update the whole page by using Ajax.	3	Chuchu Wu
Order Delivery Location - Google Map API	Customer/Restaurant can see the driver's location in the order in delivery page.	Load the driver's current location by Google map API on the order page, request the coordinates of the driver's device.	3	Ke Ning, Kun Liu
Venmo payment API	When customer checkout the order, she can scan the venmo code to purchase the bill and place order.	Present the payment QR code to customer by the Venmo account provided by restaurant, using Venmo API to generate the QR code.	3	Kun Liu, Yanjun Wang
Cloud Deployment	Allow remote access to Tartan Eats server	Deploy the application to the cloud using Amazon EC2 and switch to MySQL database	3	Ke Ning, Chuchu Wu

Data Models and ER Diagram:

ENTITY NAME

PK	Property Name
PK	Property Name
FK	Property Name
FK	Property Name
K	Property Name
K	Property Name

User

PK	User ID
K	username
K	First Name
K	Last Name
K	email
K	password
K	phone
K	address

Restaurant

PK	Restaurant Id
K	username
K	Restaurant Name
K	email
K	password
K	phone
K	delivery fee
K	description
K	venmo account
K	address
K	picture

Order

PK	order id
K	order time
K	subtotal
K	tax
K	total amount
K	status
FK	user
FK	restaurant

Order-cuisine

PK	order_cuisine_id
FK	order id
FK	cuisine id
K	item quantity

cuisine

PK	cuisine id
K	cuisine name
K	description
K	picture
FK	restaurant id
K	price

Delivery

PK	delivery id
FK	driver
FK	Order
K	Realtime Position
K	delivery status

Driver

PK	driver id
K	username
K	first name
K	last name
K	phone
K	email
FK	restaurant id