We have seen the activity diagram represented the flow of the work inside the system. On the other hand, the sequence was designed specifically for the use case "Food Ordering". Now we establish the class diagram in order to have a closer look at how the system is organized. Below is how the class diagram represents the system:

+ When the customer scans the QR code on the table, a new Account object will be created which uses the table id number of the QR code and the date the customer scans the QR code.

+ The menu displays all the food products provided by the kitchen staff. The FoodProduct object will contain the unit cost of the food items along with its side dishes and dish information. In addition, the admin can edit the product information as well as adding a new product or remove the product.

+ When the customer views the menu and selects a product or food to put into the cart. The FoodItem together with the FoodCart is created. The FoodItem will contain the information of the FoodProduct as well as its quantity and side dishes. The customer can also increase the number of products he/she wants, or remove the products that he/she accidentally put into the cart. When the customer updates the quantity of the product, the minimum amount of the product is 1.

+ The FoodCart can record all the FoodItem the customer has chosen and allow the customer to preview his/her cart.

+ When the customer places the order, the Order object will be created and it will notify the kitchen staff to prepare the food. The kitchen staff will check if the food is available or not then he will update the status of the order and deliver the order.

+ After that, the customer will pay for the order on a credit card, and the CreditcardPayment will be created in order to record the transaction of the order.