



# BeanFast

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# BEANFAST

Breakfast ordering and delivery system for students in primary school from nearby cloud kitchen



# Team Member

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# Agenda



1. Actors & Core Flows
2. System Architecture
3. Technologies
4. Basic Features
5. Main Flow & Demo
6. Conclusion & Future Plans

# ACTORS

Roles in the system



Customer



Kitchen Manager



Deliverer



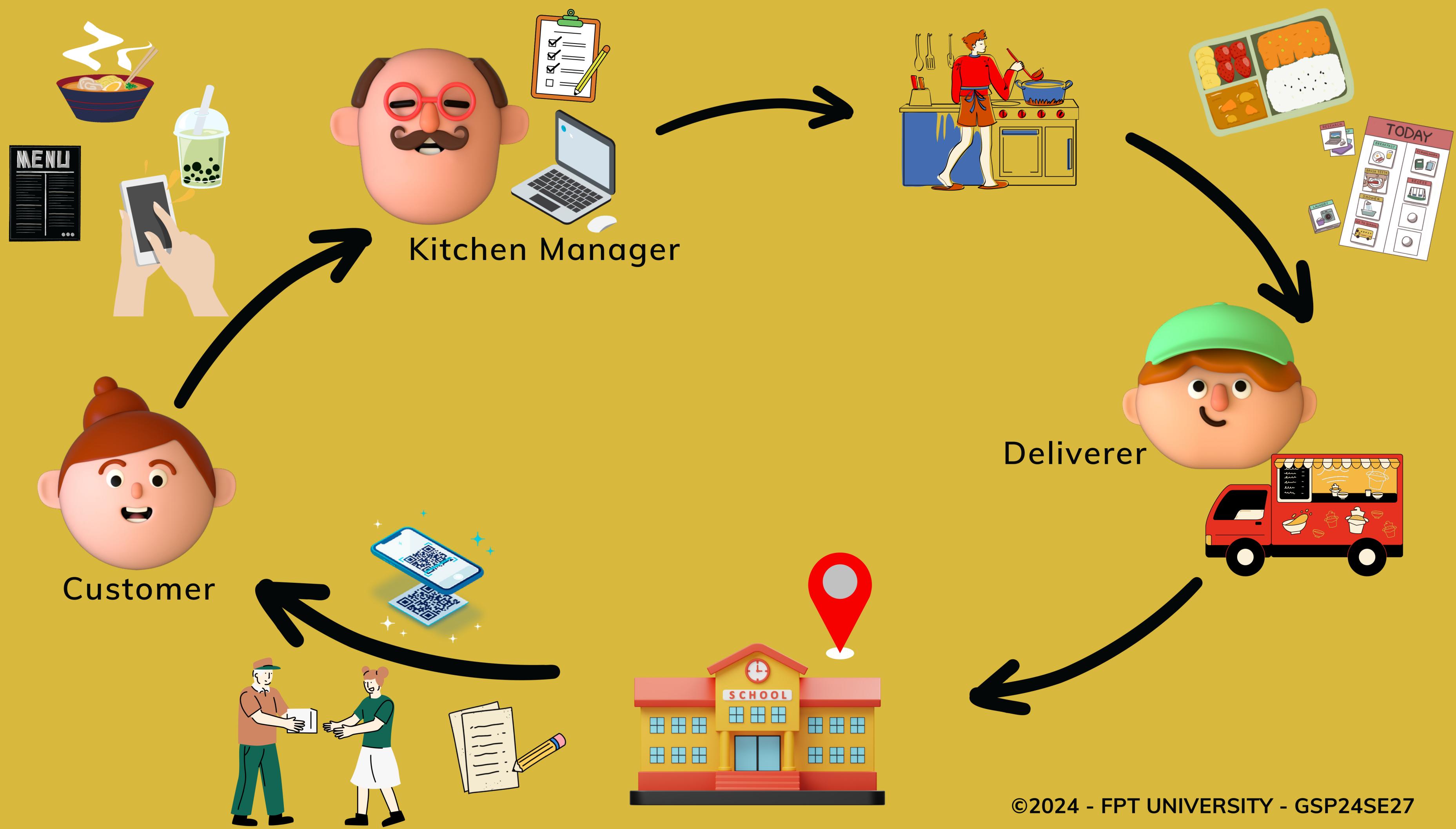
Administrator



# BACKGROUND

- Kitchen Manager lists each school's daily menu so parents can order food for their children in advance.
- Parents use the mobile application to order food and choose a pickup location near the school gate.
- The ordered dishes will be prepared in the kitchen and delivered to the stations.
- At the station, customers will receive their orders.



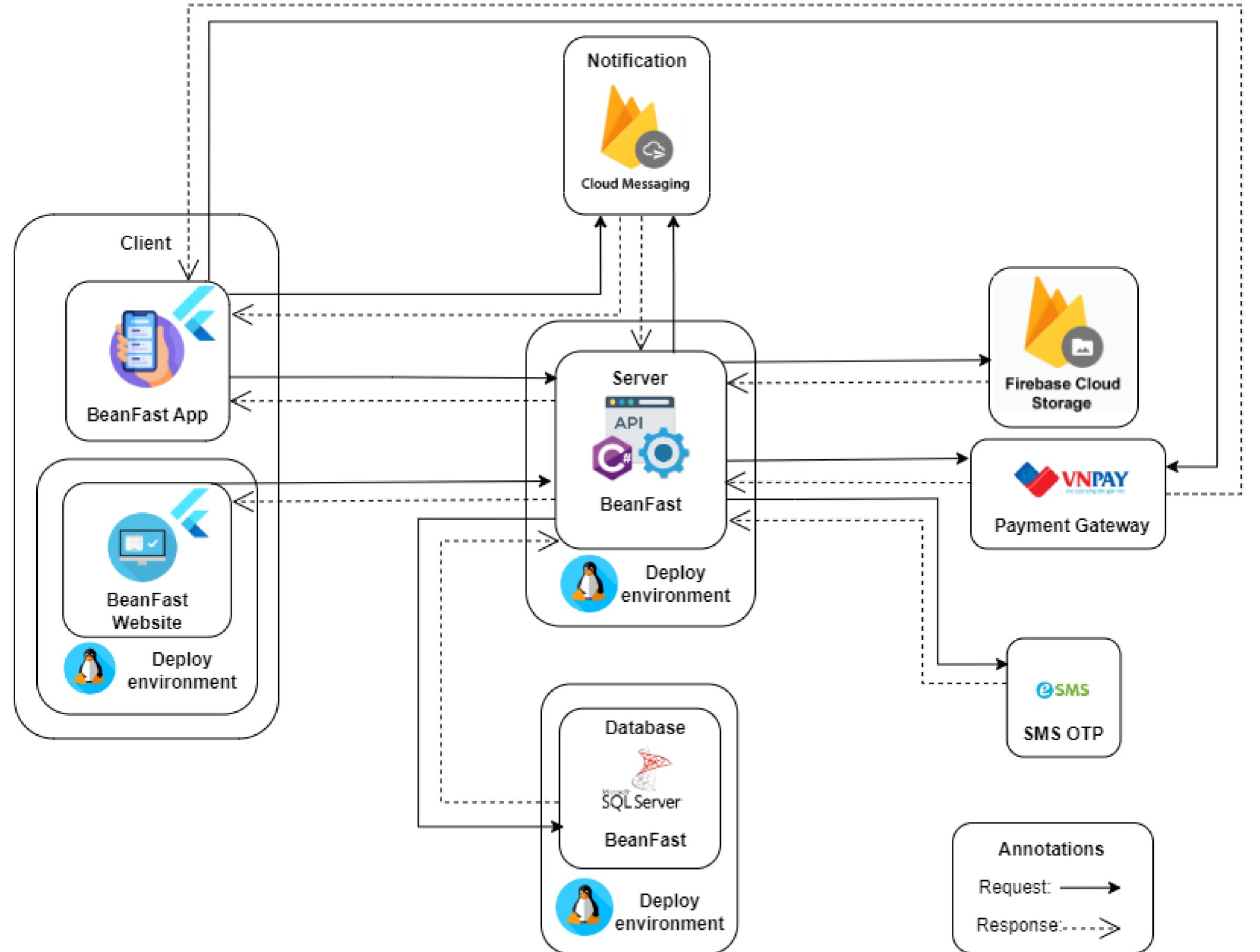




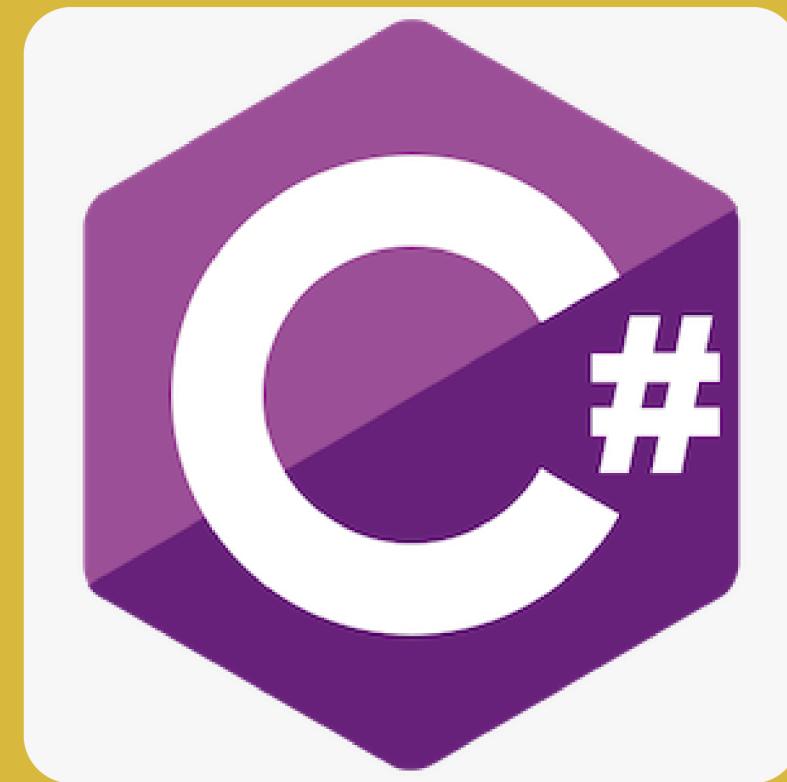
# System architecture



# System Architecture



# Technologies



C Sharp (.Net 7)



MS SQL Server



Flutter



Dart

# 3rd party



Firebase

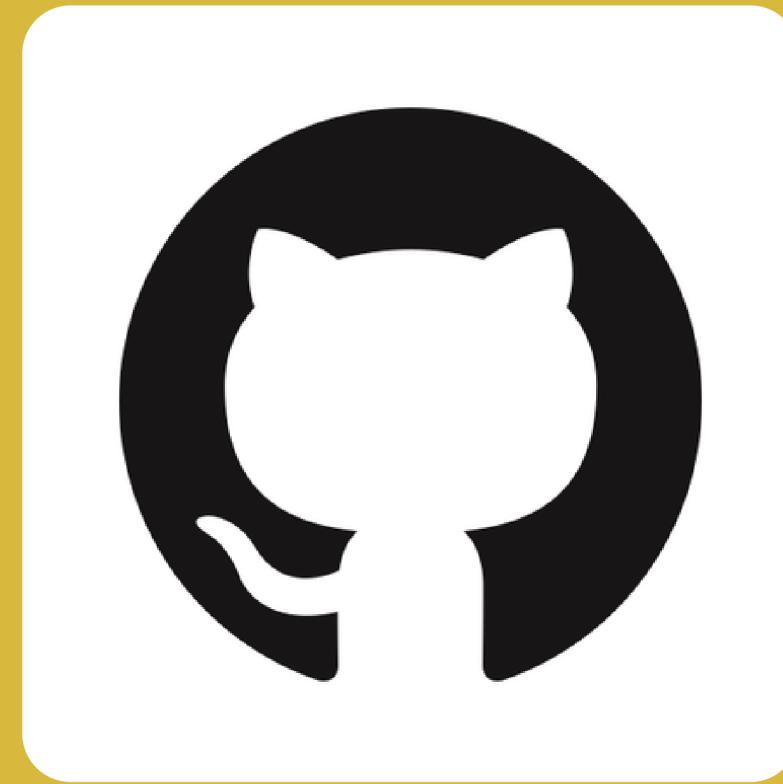


Send SMS OTP



Payment gateway

# **Management & Deployment**



Github



Azure



# Basic Features





## Customer



Register account - log in

View food menu based  
on child school - session

Play game to get points

Create child profile

Ordering food for a child

Get notifications

Recharge the app

Exchange a gift by  
using a point.

# Kitchen Manager



Log in account

Manage orders

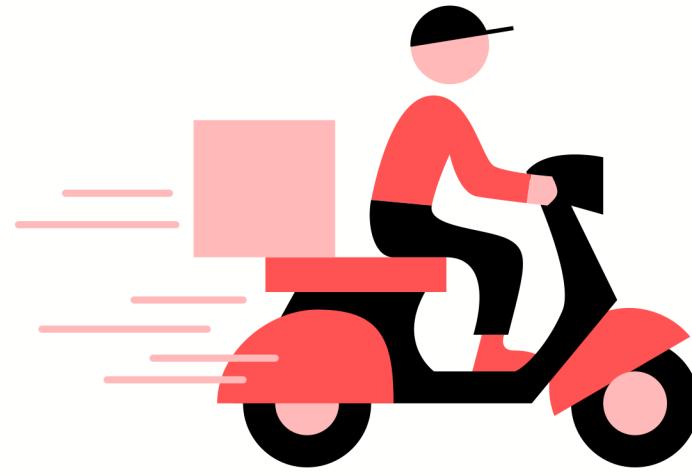
Manage schools

Manage food

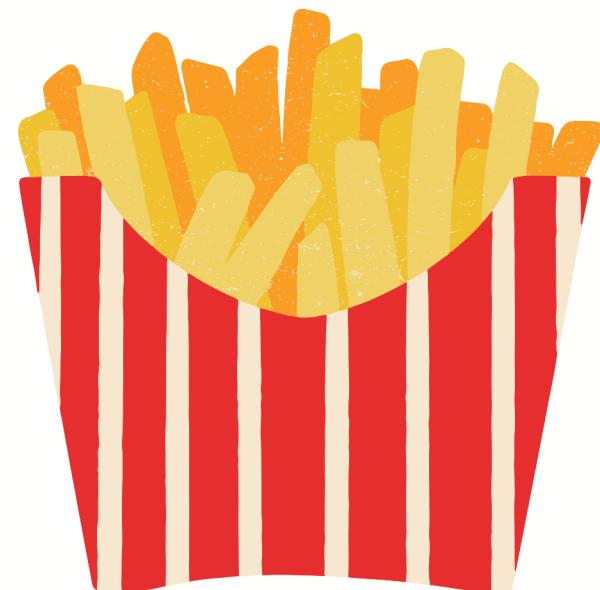
Manage gifts

Manage menus

Session Management



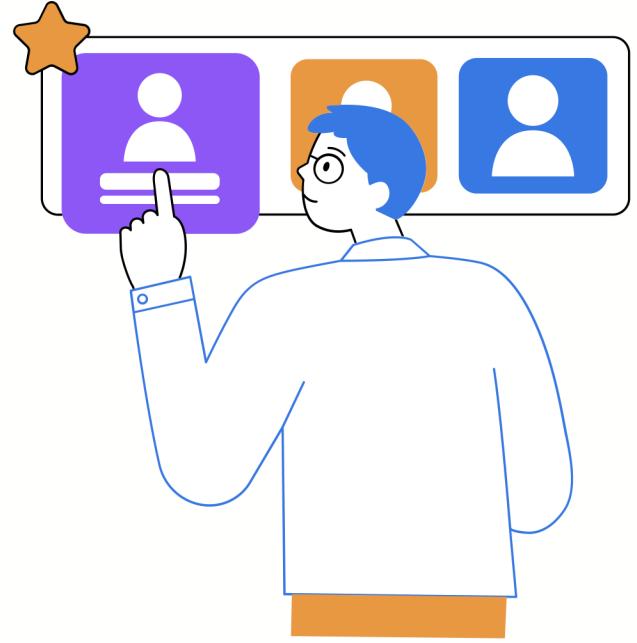
## **Deliverer**



**Log in account**

**View delivery schedule**

**Scan QR code**



# Administrator

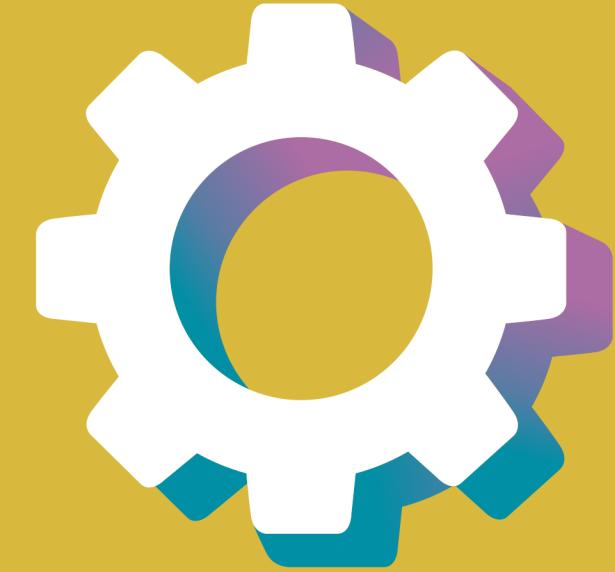
Log in account

Manage delivery accounts

Manage kitchen placement

Manage customer accounts

Manage kitchen manager accounts





# Main Flow & Demo





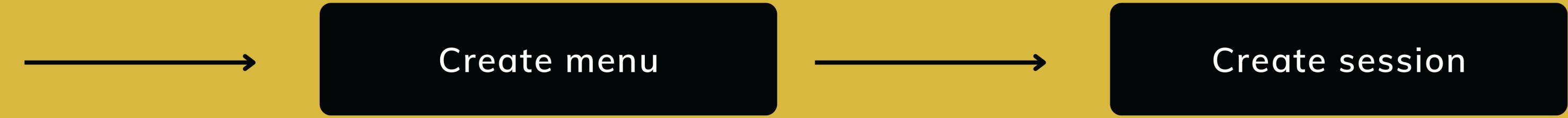
# Improved



1. Fix sequence diagram and use case diagram.
2. Delivery time needs to be in the morning.
3. Gaming does not need to be tied to a specific student.
4. Record the time when the order status changes.
5. One order cannot be delivered to multiple people.

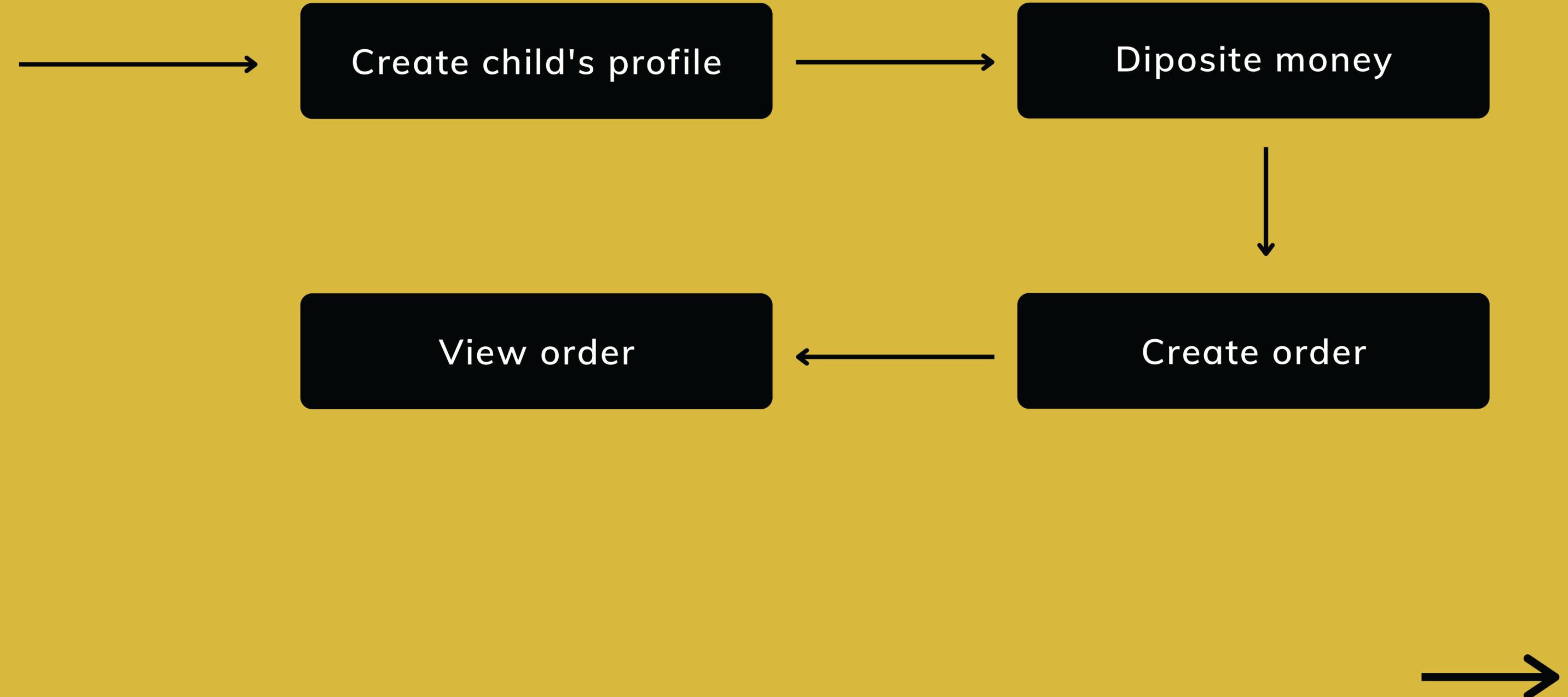


## Kitchen Manager





**Customer**





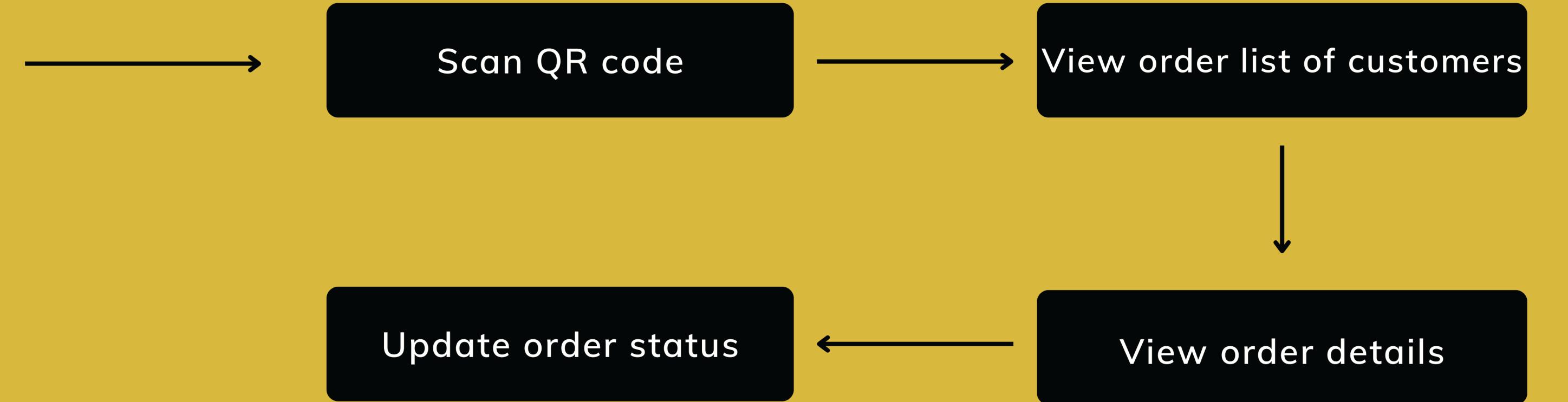
View order

**Kitchen Manager**





## ***D*eliverer**



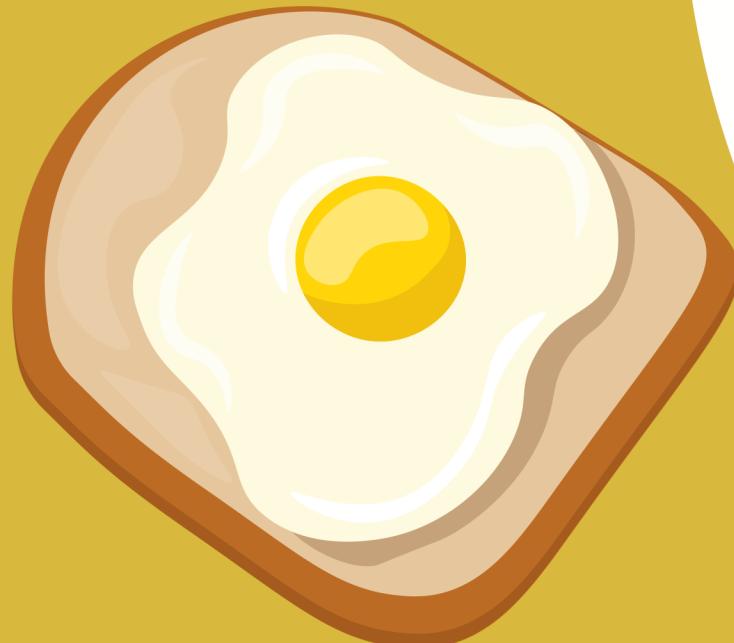


# Demo

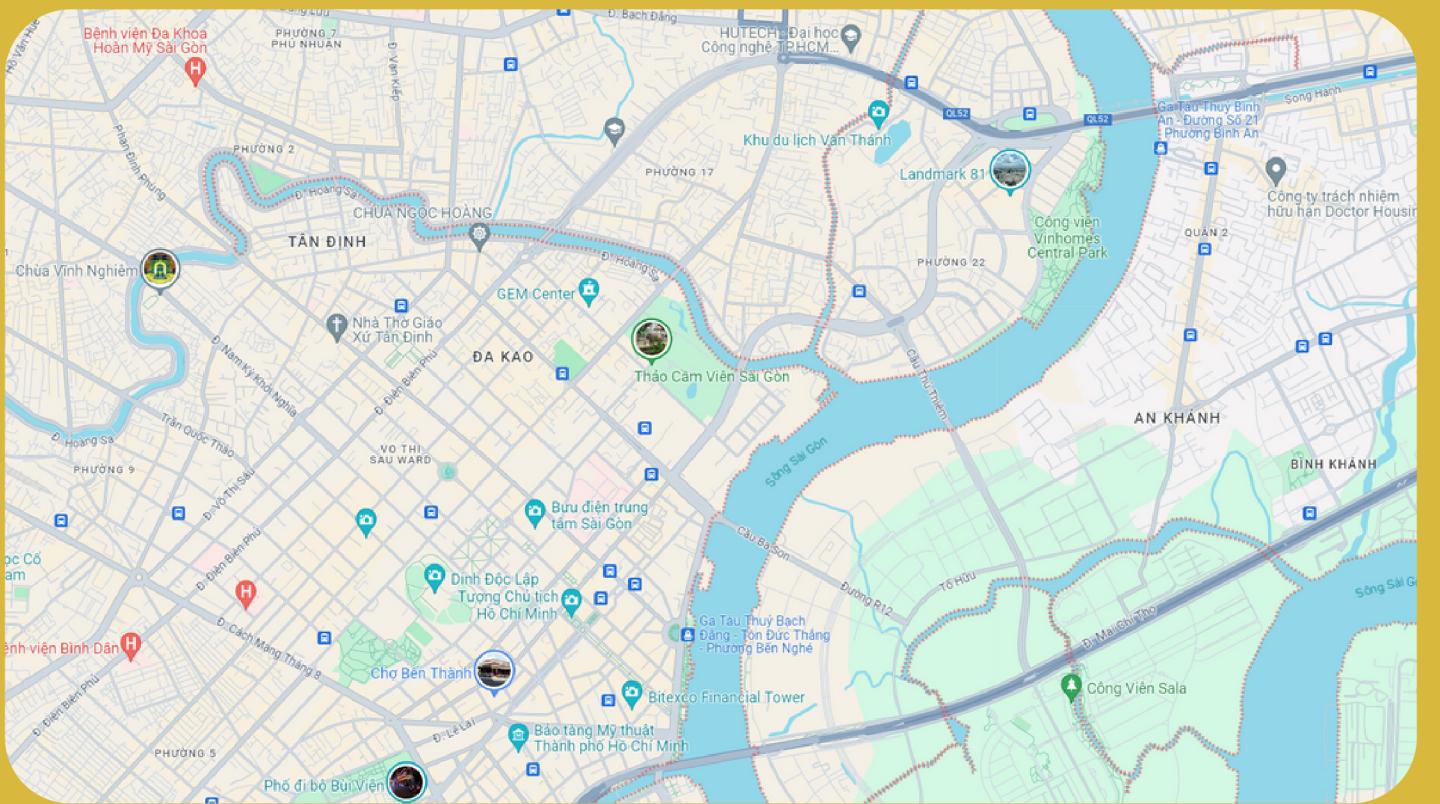




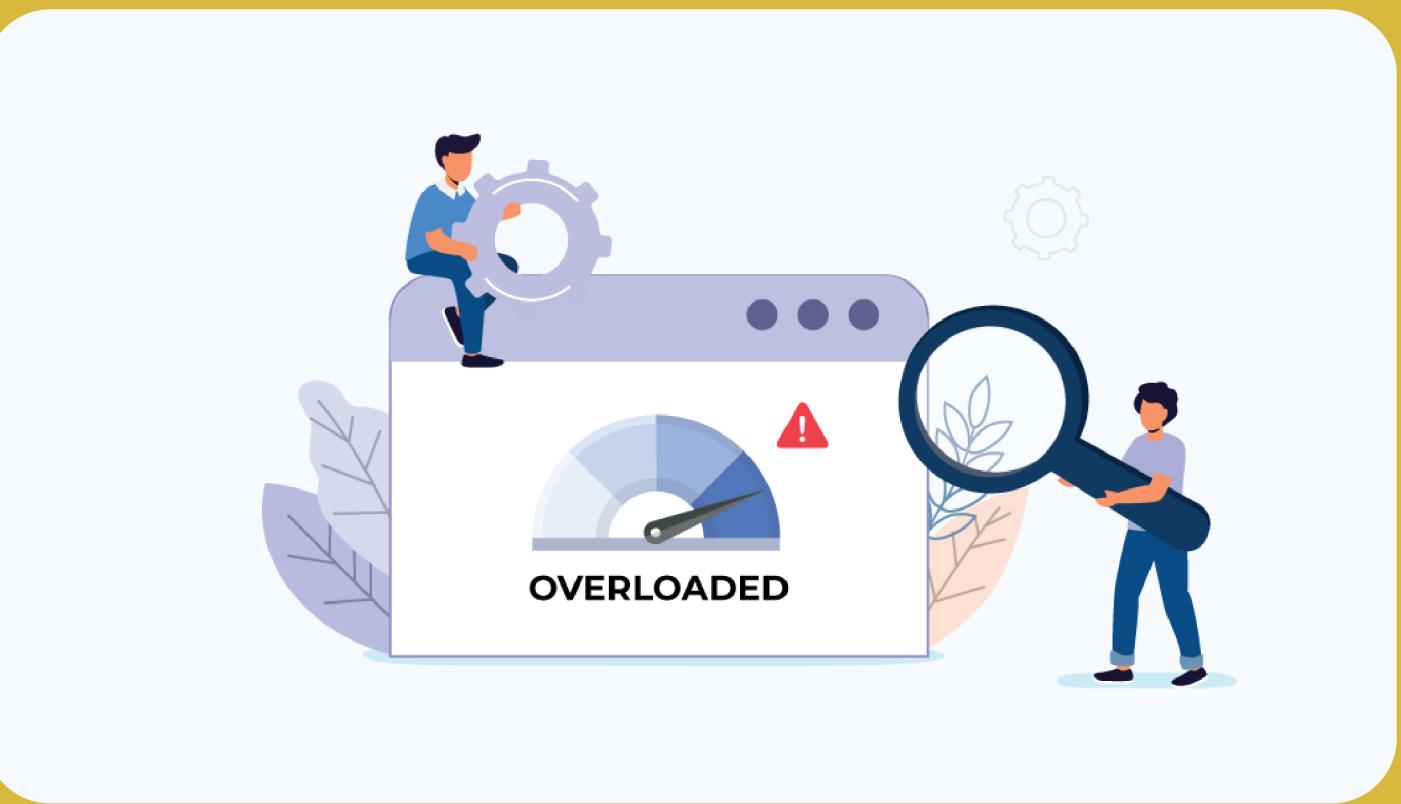
# Conclusion & Future Plans



# Limitation



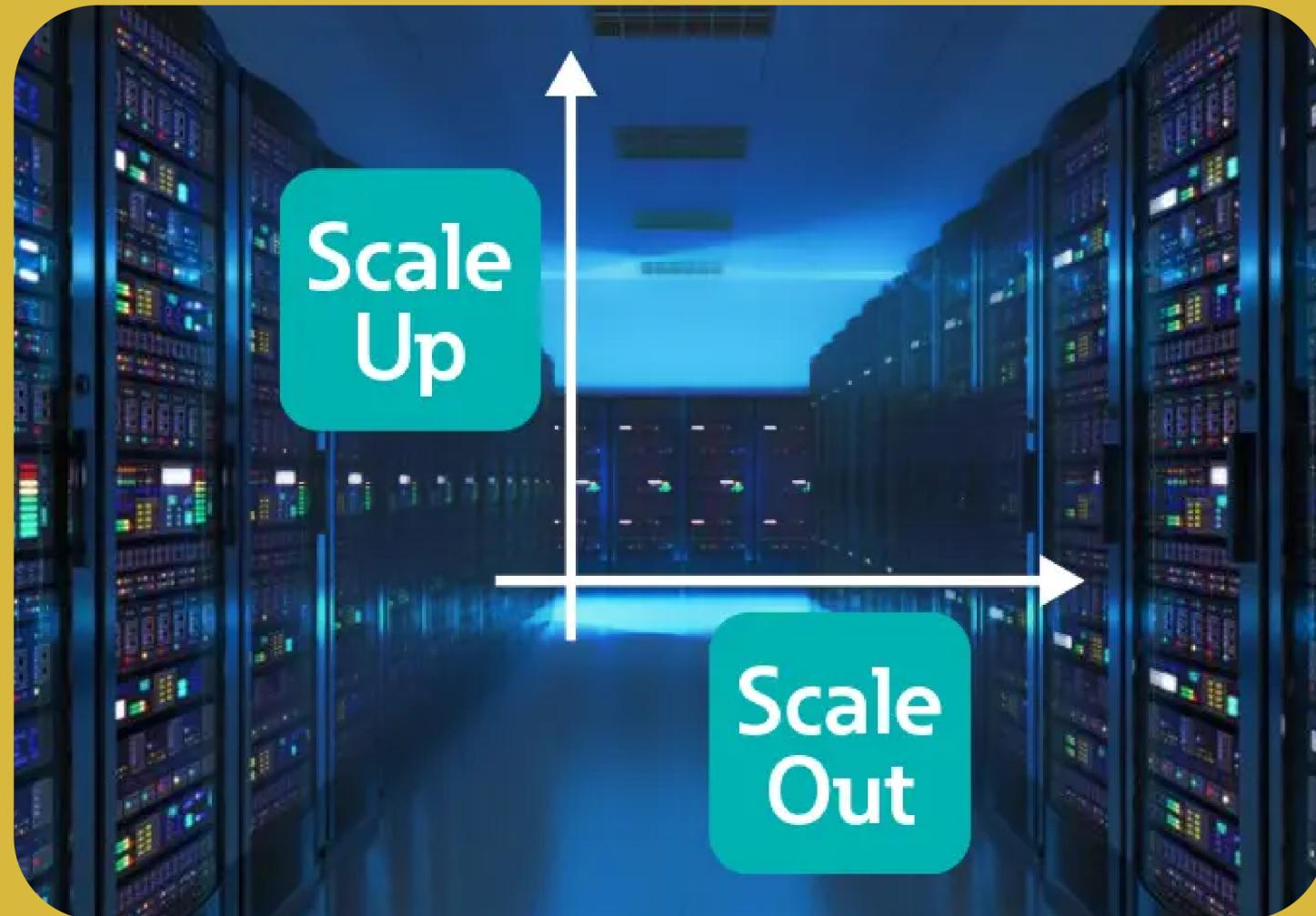
The delivery does not currently suggest optimal directions or real-time map updates for management.



The system is not yet subject to a large user load.

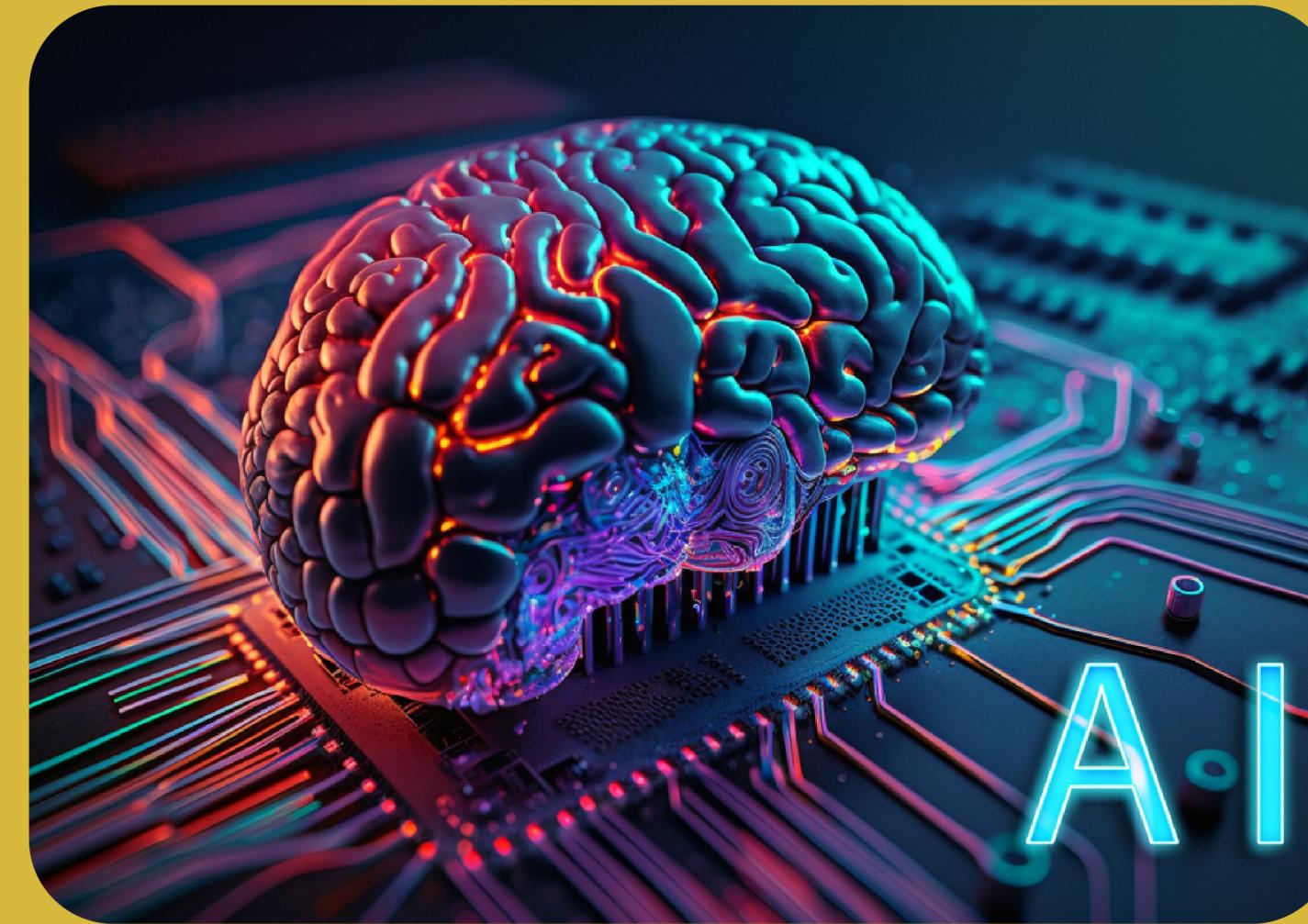


# Future plan



Scale Up: Enhance performance through the implementation of database caching.

Scale Out: Expand by renting extra servers to handle each service independently and boost performance.



The system recommends meals based on students' habits and BMI.



**Thank you for listening!**

