## Project - Part 3 (Group Project, 5 Marks)

#### Group #5:

Student ID	Name	Surname
202219102	Xiaoyuanying	Kuang
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202219044	Yueheng	Wang
202219072	Fanghua	Dai
202219077	Jiayi	Li

#### **Case Study**

#### # High-tech Restaurant.

The restaurant maintains an electronic catalogue for the list of food and beverage items that it provides. Meal customization is supported. Customers are provided by a unique APP to order food and pay bill on premises, to order online and to make bookings. An extended customer record is maintained, so it is possible to build a profile for the different customers. Data collection includes traditional user data (e.g. requested meals/beverages) integrated with additional data (e.g. time of purchase or visit, number of people attending, etc.) to increase the profile accuracy. Premium customers are awarded with discounts, as well as customised offers based on the profile generated are periodically sent to customers. The platform is connected to suppliers and provides an automated estimation of food/beverage requests through an external AI-powered service. These requests are validated by the manager in the system and, then, is automatically sent to the different providers. A similar service is available to connect food delivery services: a delivery request received through the restaurant APP can be automatically forwarded to the delivery company.

#### Feedback (from instructors)

#### Group 5:

Great presentation. Good work. I guess you can improve as follows:

- An important stakeholder is missing: Restaurant Staff (e.g. Chef, Waiter, etc.)
- At Level 2, you are adopting one single container to describe a Software System. That is ok but I would like to see a bit more of detail. Please better structure your architecture by adopting more than one container to describe them.

软件设计是个性化的工作,没有标准答案。下面几点建议仅供大家参考

- (1) 按面向对象思维考虑问题: 从 Level1 开始一个 software system 集中处理一个大的核心对象。课件中图书管理为例,Libarary port 处理图书的借、还和评论,而 Analytices system 主要是对 library port 系统产生的数据记录的处理。两个 software system 处理的核心对象不同。
- (2) 按核心利益相关者考虑问题: Libarary port 主要为读者提供服务,读者是最核心的利益相关者; 而 Analytices system 为管理者提供服务,管理者是核心利益相关者。一个 software system 服务一类主要利益相关者。
- (3) 按现实开发角度考虑问题:一个系统组成部件的设计应尽量能够在一张 A4 纸或一页 ppt 中清晰展示,如果出现过于拥挤、字体很小才能容纳的情况,应该考虑进行拆分。设计 结果呈现出来做到清晰、简洁。
- (4) 从软件体系结构的视角,**设计以核心用户的核心业务为重点**,核心业务需求要能够在系统中找到对应的详细设计,相关的支持系统(如支付/定位等)不能省略。不是太核心的功能不用过多设计,甚至可以不设计。

Wheeler A Court And A Little A
Feedback (from peers)
reeuback (110th peers)
C4 has a clear structure, but the content is slightly lengthy, so it would be better if it could be streamlined.

#### 1. Revised solution after initial peer-review and presentation (5 marks, Group assessed)

You should address the feedback received and provide a revised version of your solution.

(5) **系统中逐级命名** softeware system .container.component **表意清晰、统一**。(命名有具体

For each component of your project that **you are going to modify**, please provide:

- Original version of the diagram / table
- Revised version (please highlight changes where possible)
- A short explanation on the change applied

确定含义,不使用过于通用的表意不清的名称如 QuerylSearch)

This is an opportunity to revise and improve your work. In this part of the project, we will assess the QUALITY of your outcome.

### 1. Key Operations

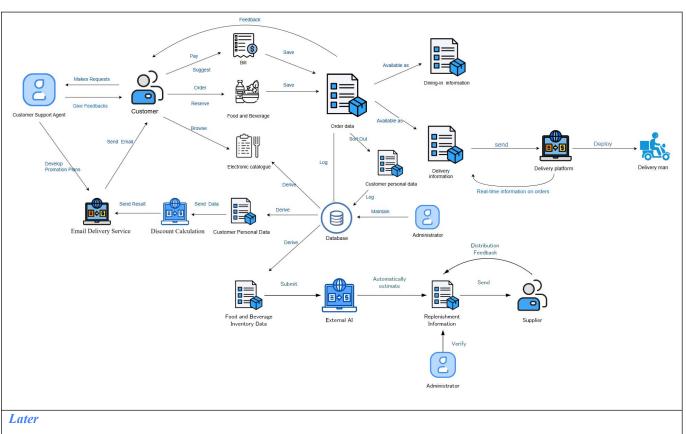
System overview

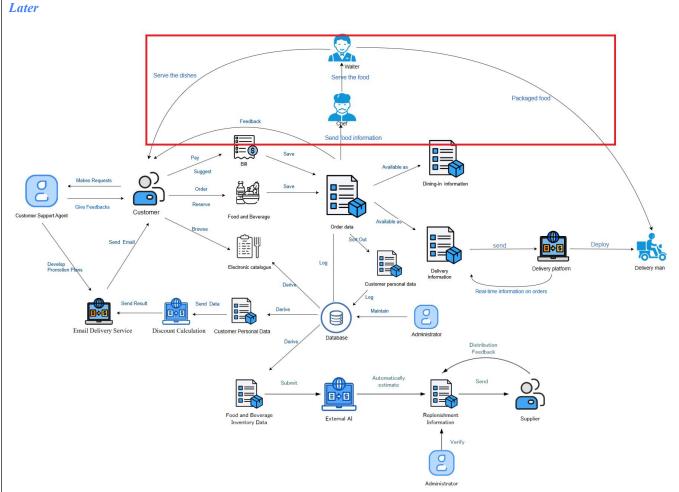
Add lost stakeholders: waiter and chef to the total system to make the function of the system more perfect.

**Former** 

#### **System Conceptualization:**

The high-tech restaurant system is designed to enhance customer experience and operational efficiency. It integrates features such as an electronic catalogue, customer app, data collection and analysis, supply chain management, and delivery service integration. The system supports meal customization, smart order processing, and automated supply management. By leveraging AI technology and external services, it optimizes inventory forecasting and food delivery coordination.



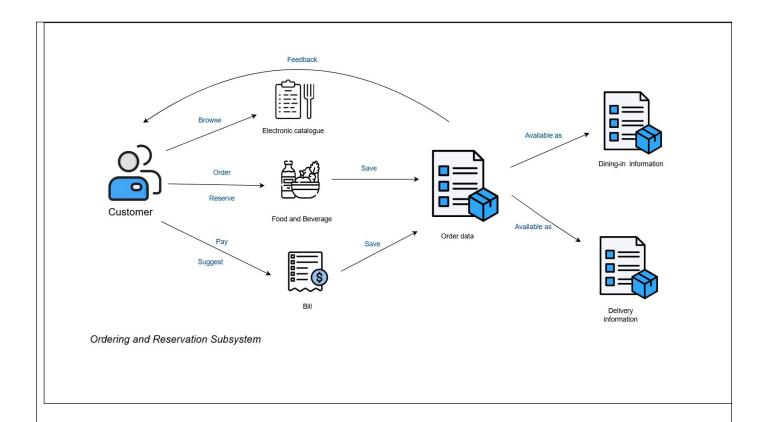


Sub-System.Ordering and Reservation System

For the Ordering and Reservation System, we add waiter and chef as two additional stakeholders to realize order management and service.

#### **Former**

nd Reservation System		
•		that I can enjoy a seamless dining experience
Jser Story ID	User Story	Functionality
Restaurant.Order.us1	As a customer, I want to browse	RestaurantCustomelr.MealSelection
	the electronic menu in the app so	
	that I can see the food and	
	beverage options available at the	
Dontonna of Ondon 112	restaurant.	Destaurant Cristanian Safa Des
Restaurant.Order.us2	As a customer, I want to securely	RestaurantCustomer.SafePay
	pay my bill through the app so that	
	I can complete the transaction	
1012	quickly and avoid waiting in line.	D / AC / M IC I /
Restaurant.Order.us3	As a customer, I want to place	RestaurantCustomer.MealSelection
	online orders through the app and	
	customize my meals as needed so	
	that my personal preferences are	
101	accurately conveyed to the kitchen.	P 4 (C 4 P
Restaurant.Order.us4	As a customer, I want to reserve a	RestaurantCustomer.Reserve
	table through the app and receive	
	confirmation so that I can easily	
10.1.7	plan my visit.	D 4 C 4 E H 1
Restaurant.Order.us5	As a customer, I want to provide	RestaurantCustomer.Feedback
	feedback on my dining experience	
	through the app so that the	
Desta	restaurant can improve its service.	Destar Market
destaurant.Order.us6	As a customer, I want the app to	RestaurantCustomer.MealSelection
	recommend dishes based on my	
	order history and preferences so	
	that I can discover more foods that I might like.	
testaurant.Order.us7	As a customer, I want to modify my	RestaurantCustomer.MealModification
destaurant.Order.us/	food selections before confirming	Restaul ant Customer . Wieanvioum cation
	the order so that I can ensure I get	
	the food I want.	
Restaurant.Order.us8	As a customer, I want to view my	RestaurantCustomer.OrderHistory
	order history in the app so that I	2. Committee and a second control of the first of y
	can quickly repeat my previous	
	favorite orders.	
Restaurant.Order.us9	As a customer, I want to receive	RestaurantCustomer.Notification
<del></del>	push notifications in the app about	
	my reservation confirmation and	
	the status of my food preparation	
	so that I can stay informed.	
Restaurant.Order.us10	As a customer, I want to choose	RestaurantCustomer.PaymentOptions
	different payment methods (such as	r
	credit card, Alipay, or WeChat	
	Pay) when paying the bill so that I	
	can select the most convenient	
	payment option.	

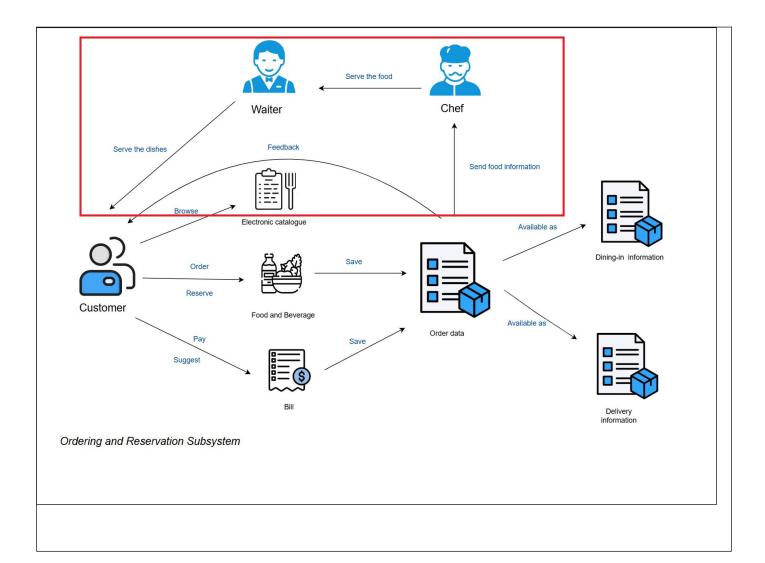


#### Latter

Sub-system ID: #5-1 Order	ring and Reservation System	
Epic: As a customer, I want	to use the app for ordering and reservations s	so that I can enjoy a seamless dining experience.
User Story ID	User Story	Functionality
Restaurant.Order.us1	As a customer, I want to browse the	RestaurantCustomelr.MealSelection
	electronic menu in the app so that I	
	can see the food and beverage	
D 10 10 10	options available at the restaurant.	D + C + C + D
Restaurant.Order.us2	As a customer, I want to securely	RestaurantCustomer.SafePay
	pay my bill through the app so that	
	I can complete the transaction	
-	quickly and avoid waiting in line.	
Restaurant.Order.us3	As a customer, I want to place	RestaurantCustomer.MealSelection
	online orders through the app and	
	customize my meals as needed so	
	that my personal preferences are	
	accurately conveyed to the kitchen.	
Restaurant.Order.us4	As a customer, I want to reserve a	RestaurantCustomer.Reserve
	table through the app and receive	
	confirmation so that I can easily	
	plan my visit.	
Restaurant.Order.us5	As a customer, I want to provide	RestaurantCustomer.ServiceFeedback
	feedback on my dining experience	
	through the app so that the	
	restaurant can improve its service.	
Restaurant.Order.us6	As a customer, I want to choose	RestaurantCustomer.PaymentOptions
	different payment methods (such as	
	credit card, Alipay, or WeChat	
	Pay) when paying the bill so that I	
	can select the most convenient	
	payment option.	

<b>Epic:</b> As a <b>chef</b> , I want to rec		
accurately according to custome	er preferences.	
User Story ID	User Story	Functionality
Restaurant.Order.us1	As a chef, I want to have access to a digital kitchen display that shows incoming orders in real-time so that I can prioritize my tasks efficiently.	Restaurant Chef. Digital Kitchen Display
Restaurant.Order.us2	As a chef, I want to be notified of any allergies or dietary restrictions related to an order so that I can prepare safe meals for all customers.	Restaurant Chef. Allergy Notification
Restaurant.Order.us3	As a chef, I want to receive feedback on the meals I prepare from customers so that I can improve my cooking.	RestaurantChef.MealFeedback

Epic: As a waiter, I want to access customer information and order statuses through the app so that I can provide timely and personalized service. **User Story ID User Story Functionality** RestaurantWaiter.OrderManagement Restaurant.Order.us1 As a waiter, I want to view customer orders and table reservations in real-time so that I can better manage service flow in the dining area. Restaurant.Order.us2 As a waiter, I want to see RestaurantWaiter.CustomerProfiles customer profiles and preferences (e.g., frequent orders) so that I can offer a personalized dining experience. Restaurant.Order.us3 As a waiter, I want to receive RestaurantWaiter.ServiceFeedback feedback from customers regarding their service and meals so that I can improve my performance and enhance customer satisfaction. Diagrams



### Sub-System.Delivery System

For the Delivery System, we add waiter and chef as two additional stakeholders to serve food and pack take-away food. Former

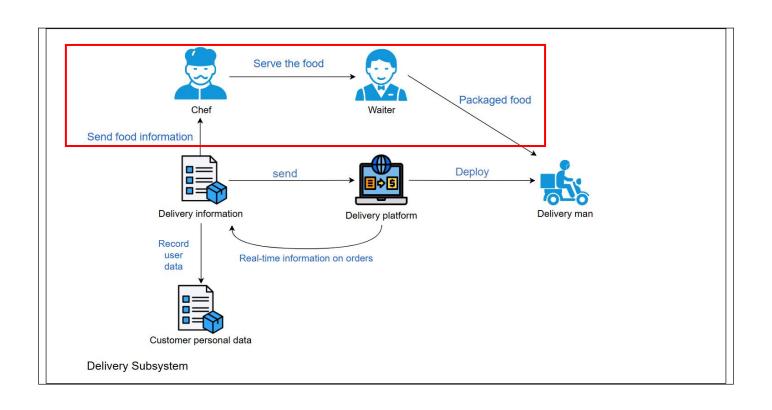
Sub-system ID: #5-4 Delivery System	Student:Yueheng Wang(202219044)	
		enience as I order in the restaurant. I hope I can pp, and enjoy efficient and satisfactory delivery
User Story ID	User Story	Functionality
Restaurant.Delivery.us1	As a customer, I want to be able to view all of the restaurant's dishes on the app when I order takeout.	Restaurant.Delivery.ViewDetails
Restaurant.Delivery.us2	As a customer, I want to be able to see the estimated delivery time and delivery cost before I place an order so I can make a more informed choice.	Restaurant.Delivery.ViewDetails
Restaurant.Delivery.us3	As a customer, I would like to be able to modify my order information, such as the delivery address and contact number, after the order is placed, and correct any errors before the delivery arrives.	Restaurant.Delivery.ModifyInformation
Restaurant.Delivery.us4	As a customer, I hope to see the real- time status of my order, such as whether the order has been served and the current location of the order, so as to reduce my anxiety in waiting	Restaurant.Delivery.ChechStatus

	for the order, unnecessary communication with the restaurant, and improve my convenience.	
Restaurant.Delivery.us5	As a customer, I hope to evaluate the restaurant and delivery staff after the order is completed, so as to help more users understand the relevant service experience.	Restaurant.Delivery.Feedback
Diagrams		
Customer personal data  Record user data  Delivery information  Real	Delivery platform  -time information on orders	Deploy  Delivery man

#### Later

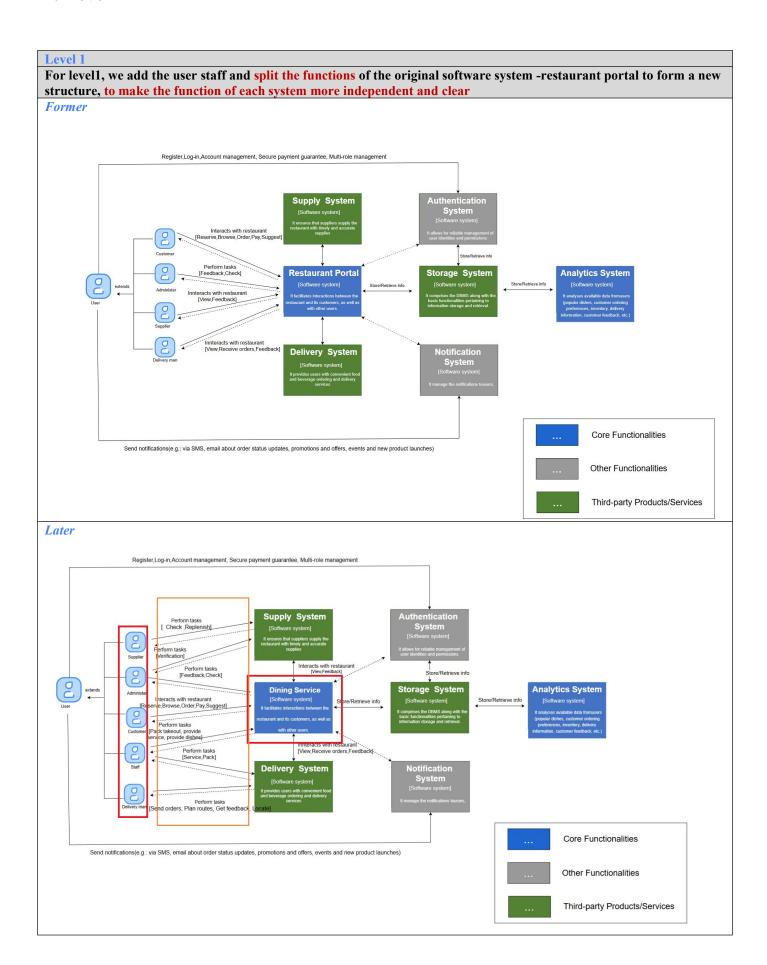
Sub-system ID: #5-4 Delivery System	Student:Yueheng Wang(202219044)	
		nience as I order in the restaurant. I hope I can op, and enjoy efficient and satisfactory delivery
User Story ID	User Story	Functionality
Restaurant.Delivery.us1	As a customer, I want to be able to view all of the restaurant's dishes on the app when I order takeout.	Restaurant.Delivery.ViewDetails
Restaurant.Delivery.us2	As a customer, I want to be able to see the estimated delivery time and delivery cost before I place an order so I can make a more informed choice.	Restaurant.Delivery.ViewDetails
Restaurant.Delivery.us3	As a customer, I would like to be able to modify my order information, such as the delivery address and contact number, after the order is placed, and correct any errors before the delivery arrives.	Restaurant.Delivery.ModifyInformation
Restaurant.Delivery.us4	As a customer, I hope to see the real- time status of my order, such as whether the order has been served and the current location of the order, so as to reduce my anxiety in waiting for the order, unnecessary	Restaurant.Delivery.ChechStatus

	communication with the restaurant,	
	and improve my convenience.	
Restaurant.Delivery.us5	As a customer, I hope to evaluate the	Restaurant.Delivery.Feedback
restaurances enver y tage	restaurant and delivery staff after the	itestuarumen seri vergir eeusuen
	order is completed, so as to help more	
	users understand the relevant service	
	experience.	
Enic: As a chef. I want to clear		date the status of orders to ensure that dishes
	impleted and meet the needs of users	
User Story ID	User Story	Functionality
Restaurant.Delivery.us1	As a chef, I want to be able to view the	RestaurantChef.Delivery.ViewDetails
	details of the delivery order through	
	the system, including the name of the	
	dish, the quantity, the special	
	requirements, etc., so that I can	
	prepare the food according to the	
	requirements.	
Restaurant.Delivery.us2	As a chef, I want to be able to update	RestaurantChef.Delivery.UpdateStatus
	the status in the system after the dish	
	is made to notify the server or delivery	
	person for the next step.	
Restaurant.Delivery.us3	As a chef, I want to be able to receive	RestaurantChef.Delivery.AllergyNotification
	alerts for special orders (such as peak	
	or VIP orders) so that they can be	
	prioritized.	
Restaurant.Delivery.us4	As a chef, I want to receive feedback	RestaurantChef.Delivery.Feedback
•	from users to help me improve my	•
	service	
	able to efficiently check, pack and deliver ta	akeout orders to ensure that each order is
properly checked and packaged	able to efficiently <b>check</b> , <b>pack and deliver</b> to before serving.	
properly checked and packaged User Story ID	able to efficiently check, pack and deliver to before serving.  User Story	Functionality
properly checked and packaged	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to	
properly checked and packaged User Story ID	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are	Functionality
properly checked and packaged User Story ID	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of	Functionality
properly checked and packaged User Story ID Restaurant.Delivery.us1	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.	Functionality RestaurantWaiter.Delivery.CheckOrder
properly checked and packaged User Story ID Restaurant.Delivery.us1	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update	Functionality
properly checked and packaged User Story ID	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery	Functionality RestaurantWaiter.Delivery.CheckOrder
properly checked and packaged User Story ID Restaurant.Delivery.us1	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the	Functionality RestaurantWaiter.Delivery.CheckOrder
properly checked and packaged User Story ID Restaurant.Delivery.us1 Restaurant.Delivery.us2	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.	Functionality RestaurantWaiter.Delivery.CheckOrder  RestaurantWaiter.Delivery.UpdateStatus
properly checked and packaged User Story ID Restaurant.Delivery.us1 Restaurant.Delivery.us2	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.  As a waiter, I would like to be able to	Functionality RestaurantWaiter.Delivery.CheckOrder
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properly checked and packaged User Story ID Restaurant.Delivery.us1 Restaurant.Delivery.us2	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.  As a waiter, I would like to be able to mark special requirements (such as no heat, less salt, etc.) on the packaging bag when packing an order so that the	Functionality RestaurantWaiter.Delivery.CheckOrder  RestaurantWaiter.Delivery.UpdateStatus
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properly checked and packaged User Story ID Restaurant.Delivery.us1	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.  As a waiter, I would like to be able to mark special requirements (such as no heat, less salt, etc.) on the packaging bag when packing an order so that the delivery person or customer can more clearly identify the customized content of the order.  As a waiter, I hope to be able to check	Functionality RestaurantWaiter.Delivery.CheckOrder  RestaurantWaiter.Delivery.UpdateStatus
Properly checked and packaged User Story ID Restaurant.Delivery.us1 Restaurant.Delivery.us2 Restaurant.Delivery.us3	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.  As a waiter, I would like to be able to mark special requirements (such as no heat, less salt, etc.) on the packaging bag when packing an order so that the delivery person or customer can more clearly identify the customized content of the order.  As a waiter, I hope to be able to check the expected arrival time of the	Functionality RestaurantWaiter.Delivery.CheckOrder  RestaurantWaiter.Delivery.UpdateStatus  RestaurantWaiter.Delivery.MarkOrder
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Properly checked and packaged User Story ID Restaurant.Delivery.us1 Restaurant.Delivery.us2 Restaurant.Delivery.us3	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.  As a waiter, I would like to be able to mark special requirements (such as no heat, less salt, etc.) on the packaging bag when packing an order so that the delivery person or customer can more clearly identify the customized content of the order.  As a waiter, I hope to be able to check the expected arrival time of the deliveryman in the system after the order is packaged, so that the delivery	Functionality RestaurantWaiter.Delivery.CheckOrder  RestaurantWaiter.Delivery.UpdateStatus  RestaurantWaiter.Delivery.MarkOrder
Droperly checked and packaged User Story ID Restaurant.Delivery.us1 Restaurant.Delivery.us2 Restaurant.Delivery.us3	able to efficiently check, pack and deliver to before serving.  User Story  As a waiter, I want to be able to review and check orders after they are made to ensure the accuracy of delivery.  As a waiter, I want a status update when I deliver an order to the delivery person so that the system records the pickup time and notifies the user.  As a waiter, I would like to be able to mark special requirements (such as no heat, less salt, etc.) on the packaging bag when packing an order so that the delivery person or customer can more clearly identify the customized content of the order.  As a waiter, I hope to be able to check the expected arrival time of the deliveryman in the system after the order is packaged, so that the delivery can be timely delivered when the	Functionality RestaurantWaiter.Delivery.CheckOrder  RestaurantWaiter.Delivery.UpdateStatus  RestaurantWaiter.Delivery.MarkOrder
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#### 2. Software Architecture

#### 2.1 level 1



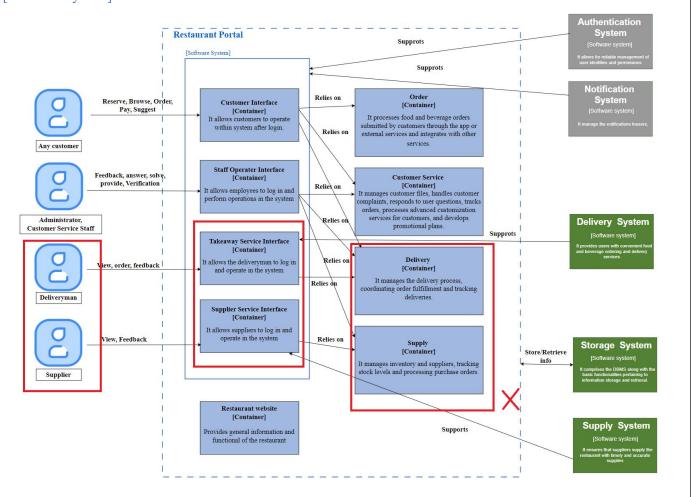
#### Level2.Dining Service System.Container

For the Dining service subsystem, we changed its name to make the software system clearer. We separated the containers belonging to other software systems. We added an administrator operation interface container to make the container settings more reasonable.

**Former** 

#### **Dining Service System**

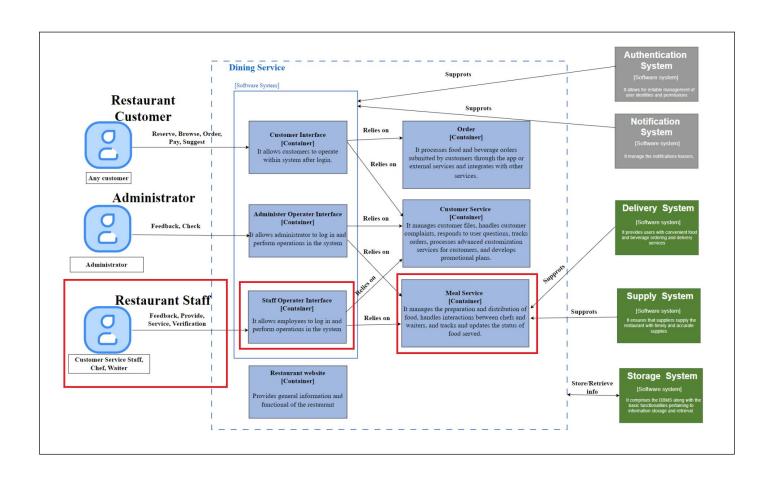
[Software System]



Later

**Dining Service System** 

[Software System]



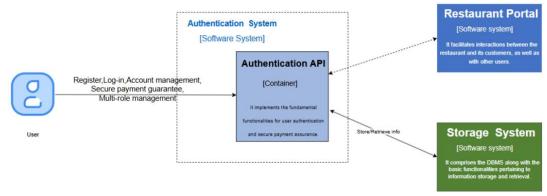
#### Level2.Authentication System & Notification System & Storage System.Container

#### Changed the name of the system, Restaurant Portal -> Dining Service

Former

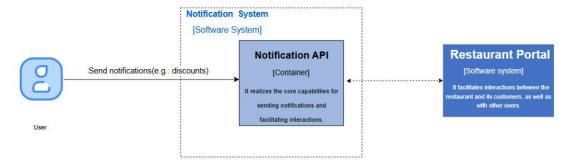
#### **Authentication System**

[Software System]



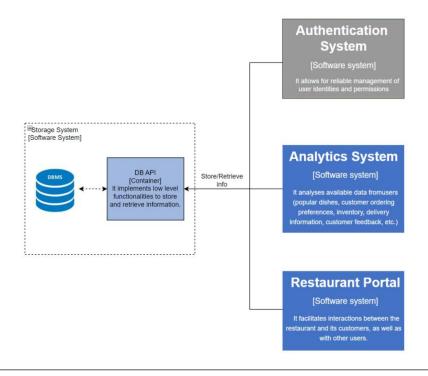
### **Notification System**

[Software System]



### **Storage System**

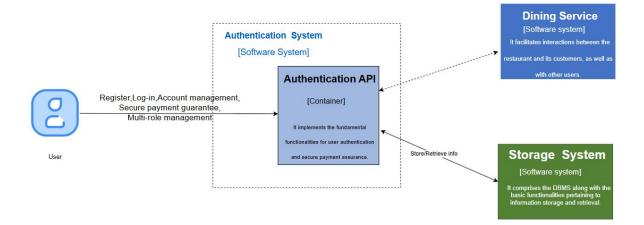
[Software System]



#### Later

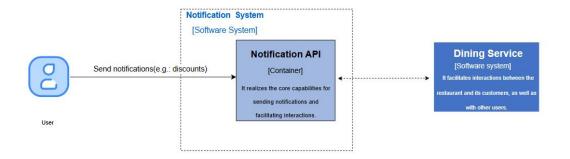
### **Authentication System**

[Software System]

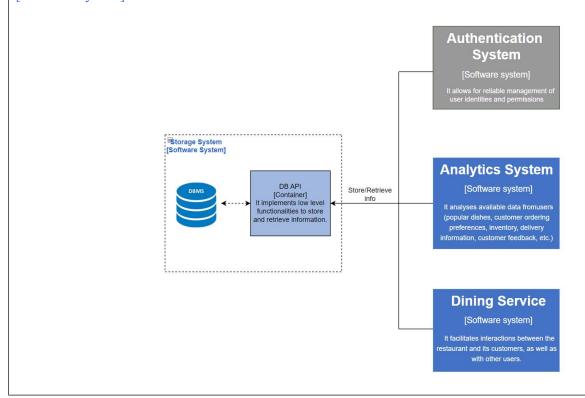


### **Notification System**

[Software System]



# **Storage System**[Software System]



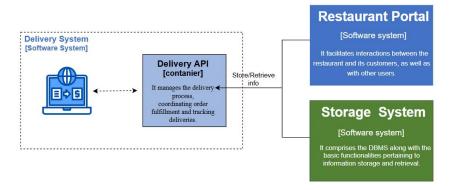
### **Level2.Supply System.Container** For the supply system, we add two containers--Supplier Service Interface and Supply, and introduce supplier to realize the interaction of functions **Former** Supply System [Software System] Supply API [Container] **Restaurant Portal** managing and optimizing a It facilitates interactions between the estaurant and its customers, as well as with other users. restaurant's supply chain and **DBMS** Later Supply System [Software System] View, Feedback **Dining Service** Supplier Service Interface [Container] Supply [Container] Relies on Interacts with restaurant [View,Feedback] It manages inventory and suppliers, tracking stock levels and processing purchase orders. It allows suppliers to log in and operate in the system Store/Retrieve info Storage System [Software system]

**DBMS** 

#### Level2.Delivery System.Container

For the delivery system, we added two containers - the delivery service interface and the delivery, and added DBMS parts to store and invoke information. Since all users in the system can interact with this function, we introduced the user to interact with the delivery interface,

**Former** 



#### Later

