



National University of Computer & Emerging Sciences

Department of Software Engineering

Software Requirements Engineering

In-Class Group Assignment - Fall 2024

Name	Roll No.
Muhammad Ahmad	23F-3028
Ali Naqvi	23F-3052
Saqib Javed	23F-3069

Time allowed: 1 hour

Total Marks: 15

Marks Obtained:

Scenario: Online Food Delivery System

You have been approached by PopularDesiFood chain to help transition to an online food delivery system. Your requirements engineering team agrees to design an **Online Food Delivery System (OFDS)** that serves three primary user groups: **Customers, Restaurant Managers, and Delivery Personnel**. The system aims to make the process of ordering, preparing, and delivering food seamless and efficient.



Description of the System:

Customers can browse menus, place orders, and track delivery status in real time. Restaurant managers receive order notifications, update menu availability, and manage operational reports. Delivery personnel can access optimized delivery routes, update order statuses, and receive push notifications about order assignments. The system integrates with third-party services like payment gateways, map APIs, and SMS notification systems.

User Stories

Customer User Stories:

1. As a customer, I want to browse restaurant menus categorized by cuisine and price so I can decide what to order.
2. As a customer, I want to place an order with multiple items so that I can buy a complete meal in one go.



Instructions for the Activity

Duration: 1 hour

Read the scenario and user stories provided. Can you think from the perspective of customer, restaurant manager/staff, and delivery personnel and add more user stories?

First, add more user stories.

Identify **Functional Requirements (FRs)** for the system against user stories for each user group.

Identify **Non-Functional Requirements (NFRs)** such as performance, security, and usability etc.

BE CREATIVE! BRAINSTORM!

Use of AI is strictly not allowed. There is a second part to this activity. To ensure that the second part of the activity is successful all requirements must be manually generated.

Additional Customer User Stories:

US-C-1	As a customer, I want to cancel order to so I can update my order preference.
US-C-2	As a customer, I want to avail facility of cash on delivery for payment.
US-C-3	As a customer, I want to view my history of orders placed to check my record.
US-C-4	As a customer, I want to reorder my past orders from history to save time.
US-C-5	As a customer, I want to give feedback review on the order to express my experience.

4.5/5

4.5

10.5

Additional Restaurant Manager/Staff User Stories:

8/20/21 ✓	US_S-1	As a restaurant manager, I want to update restaurant hours for special events. <i>so incl?</i>
✓	US_S-2	As a restaurant manager, I want to get customer feedback so that I can make improvements.
✓	US_S-3	As a restaurant manager, I want to track order preparation so that it is delivered <i>quickly</i>
✓	US_S-4	As a restaurant manager, I want to identify high demand dishes to optimize inventory. <i>so incl?</i>
incomplete	US_S-5	As a restaurant managers, I want to view?

Additional Deliver Personnel User Stories:

5/5 ✓	US_D-1	As a deliver personnel, I want to view my order priority so that I can efficiently manage my workload.
✓	US_D-2	As a deliver personnel, I want to view my delivery history to so so that I can track my progress.
✓	US_D-3	As a delivery personnel, I want to receive reminders for pending deliveries to ensure I don't miss any orders.
✓	US_D-4	As a delivery personnel, I want to receive route recommendations so that I can avoid restricted areas.
	US_D-5	

4.5/5

4

1075.5

Customer Functional Requirements (FRs)

R_C_1	The system shall allow user to browse menus.
R_C_2	The system shall allow customer to filter menu based on
R_C_3	The system shall allow user to add items to cart
R_C_4	The system shall allow user to place order.
R_C_5	The system shall allow user to keep track of delivery.
R_C_6	The system shall allow user to add save its favourite restaurants.
R_C_7	The system shall allow user to apply for promo codes.
R_C_8	The system shall allow user to checkout.
R_C_9	The system shall allow user to cancel order.
R_C_10	The system shall allow user to pay via cash-on-delivery.
R_C_11	The system shall allow user to check ^{my} previous orders.
R_C_12	The system shall allow user to give me feedback.
R_C_20	

redundant
-0.5
cuisine
and
price.

redundant
-0.5

Delivery Personnel Functional Requirements (FRs)

✓ R-D-1	The system shall allow user to view optimized routes.
✓ R-D-2	The system shall allow user to mark delivered orders.
✓ R-D-3	The system shall allow users to receive notifications.
✓ R-D-4	The system shall allow users to receive new order assignments.
✓ R-D-5	The system shall allow users to check contact ^{details} of customers.
✓ R-D-6	The system shall allow users to report delays of deliveries.
✓ R-D-7	The system shall allow users to view priority of orders.
✓ R-D-8	The system shall allow users to view delivery history.
✓ R-D-9	The system shall allow user to receive reminders for pendings.
✓ R-D-10	The system shall allow user to inform delay to customers.
✓ R-D-11	The system shall allow user to inform delay to Restaurants.
R-D-20	

4.5/5

4.5

0.75

Non-Functional Requirements (NFRs)

✓ NFR1	System shall handle at least 500 concurrent users.
✓ NFR2	System ensure data encryption for user credentials.
✓ NFR3	System shall responds at most 2 seconds.
✓ NFR4	System shall be user-friendly.
✓ NFR5	System shall handle errors and respond an error message.
✓ NFR6	System shall be available in 22 hours.