

# **National University of Computer & Emerging Sciences**

Department of Software Engineering

Software Requirements Engineering

## In-Class Group Assignment - Fall 2024

In-Class Group	
	Roll No.
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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!

	E CREATIVE: BRAINGTOTH I	
	se of AI is strictly not allowed. There is a second part to this activity. To ensure that the econd part of the activity is successful all requirements must be manually generated.	_
$A_{\nu}$	dditional Customer User Stories:	1
1.2/2	15 C_1 As a Clubra ev. haget touser combo meals	8
8 Just!	often to set better value for money  As a customer, I want to receive loyalty	
	rewards for frequent purchases to save more.	
	As a customer, hund to access my order history for quick reordering	
	As a customers load to order from multiple restaurants on a single transaction	•
	As a customer, Iwant to receive live updates about the preparation chaseof my food.	

Additional Restaurant Manager/Staff User Stories: US\_S\_1 As a manager, I want to monitor realthe Kitchen worldflow to track order progrets. As a manager, I wall to auto-sync Stock levels with meny qualability to avoita errors As a manager, had to schedule promotions for specific times. As a manger, local to redrive reminders to update outdated menu items As a mangers want to monitor customer feedback trends to i prove service quality Additional Deliver Personnel User Stories: As a delivery person, I wand to recieve detailed drap-off instructions for secure Its a delivery person, I want to rate restaurants based on pracup went As a dellucy person, had to view traffic consession roles to avoid delays As a delivery person, I und to ball hearby orders to minguize delivery fives. As a delivery poson was torce the veislt or size of padragestor better preparation.

Customer Functional Requirements (FRs) and Cogin Chall vegister Cus tomer social email Chall search restaurant by location and Deliky time customer customer preparation view estimated stall Customo noti fied time shall ustance rea deliver Shall Justoma incroved order place shoul Customo Instead be customer able shall able be Shoul customer orders multiple anable customa Shoul promotions Shall between delivery Shall customer. Shall diches able Shall support menu able customo dishes

Restaurant Staff Functional Requirements (FRs) Malcer shall be able to define hanaged shall be able to assign hish-proper order to specific state torqueuchaidles. the the slots. Managers shall be to < specitec Manager shall be able to send notification to the customer used the sale. able to trade peak ordered in Managers shall be ophise set losalty shall be SPE trequest for Mangers shall be aske to make are updated & red the 9 gredient's to ensure Manager shall be able to approve promoted regusts cubi shall se able to enable pre-ordering 06 too evers shall be able to active promoti shall be able to set thrashold orders value & shall be able to avoid restaural personnel durin busy per of wall be able to uplocal proutoisal 191ce videos o shalle able to dealfrude specific to provid telestest request ages shall be asig Manager Shall Chall 00 directly shall be able mostle access. - Ph 40 track stall be able Mangers shall be able to deaching Jue to shortuge:

flow show. Delivery Personnel Functional Requirements (FRs) personnel should R\_D\_20

Non-Functional Requirements (NFRs 2 months?