



# National University of Computer & Emerging Sciences

Department of Software Engineering

Software Requirements Engineering

## In-Class Group Assignment - Fall 2024

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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!

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\_CA As a customer, I want to pay through atm so that I can easily pay money.

US-C-2 As a customer, I want to recieve sms after order so there I can confirm the order.

As a customer, I want to access google maps us\_cs that I can see near by restwants.

Additional Restaurant Manager/Staff User Stories: US\_S\_1 As a restaurant manager I want to set up Promotional offers and discounts so that I can attract more customers. As a restaurant staff member, I want to view pending orders in a priority queve so that I can prepare them efficiency. Additional Deliver Personnel User Stories: As a delivery person, I want to receive alerts for new delivery tasks so that I can plan my routes. As a delivery person, I want to update the delivery status to delivered so that customers and restaurant are informed.

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	R-C-3	items at a time.
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	R_C_20	the customer

Restaurant Staff Functional Requirements (FRs) Resturant manager shall update menu items. port manager should update food according ssystem shall allow out of slock ystem , To update Shall notify managers of customer and compaints.

Shall provide a dashboard for the system shalf allow managers lasks to slaff managers assign R\_S\_20

Delivery Personnel Functional Requirements (FRs) R\_D\_1 deliver tracking -0.2 <u>v</u>lewbe R\_D\_20

Non-Functional Requirements (NFRs) NFR1 per for mance up dates (shall) placements withing chall Provide ah application shall aviolabl asstern and and - ga.fi/. functional ovev occuv every a IL-mosts Period.