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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_C_1	As a customer, I want to add my favourite reciepies to a list for faster ordering.
	As a customer, I want to change my orders if my mind get change.
	As a customer, I want to cancel my orders also.
	As a customer, I want to see the prices of every reciepie before placing order.
	As a customer, I want to get notification whenever a new reciepie is added.

Additional Restaurant Manager/Staff User Stories:

US_S_1	As a restaurant manager, I want to see the payment status of placed orders
	As a restaurant manger, I want to see the customers information for confirming order delivery.
	As a restaurant manger/staff user, I also want to see the order live tracking for informing customers
	As a staff user, I want to recieve notification (from) incase of order change or cancellation.

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Additional Deliver Personnel User Stories:

US_D_1	As a delivery person, I want to see a list of orders that are not delivered.
	As a delivery person, I want to recieve notification of order cancellation so that I can reduce time.
	As a delivery person, I want to see the payment status of each order.

Customer Functional Requirements (FRs)

R_C_1	The system should allow user to browse restaurant menu by price.
	The system should allow user to browse restaurant menu by cuisine.
	The system shall allow user to place an order with multiple items
	The system shall allow user to track the order (tracking) so that he can see order status.
	The system shall allow user a successfull login
	The system shall allow user to see his list of favourite restaurants for faster ordering.
	The system shall allow user to see his list of favourite reciepies.
	The system shall allow user to access GPS for seeing nearby restaurants.
	The system shall allow user to cancel his order.
	The system should user to change his order.
	The system shall allow user to do payment via credit card.
	The system shall provide an option of cash on delivery.
	The system shall allow user to recieve notification of (recieving x ord.) new reciepies.
	The system shall allow user to apply promo codes for discount on orders.
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R_S_1	System shall allow user to update menu
	System shall upde send notifications
	System shoul mark items out of stock
	System shall generate daily report
	System shall generate weekly report
	system shall generate monthly report
	System shall allow manger to add items in menu
	System shall display updated menu
	System shall display order details (price).
	System shall allow manager to filter report.
NFR X	System must be easy to use on every platform (mobiles, laptops)
	System shall display payment status of placed orders
	System shall provide live tracking of orders.
R_S_20	

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Delivery Personnel Functional Requirements (FRs)

R_D_1	System must provide optemized delivery rules.
✓	System shall allow delivery person to mark orders "completed" when delivered.
✓	System shall give notification to delivery person when new order is placed.
✓	System shall display costumer details to delivery person.
✓	System must allow person to report any delay issues.
✓	System must list all assigned orders.
✓	System shall update order status after delivery.
✓	System must display delivery instructions.
✗	System must confirm new orders.
✓	System must show live tracking update.
✓	System must notify manager about delay
✗	System shall allow contacting manager.
✓	System must show completed delivery history
R_D_20	

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NFR1	System must be available 24/7
	System must respond to user within 2 seconds.
	System should handle 1000 users at a time.
	System must preseeue all payments.
	System must protect costumer data
	System shall work on both mobile & laptop.
	System must support multiple language.
	System shall use MAP API's
	System must send real time notifications
	System must recover from crashes within 1 minute.
	System must comply legal policy.
	System should be user friendly
	System should have simple interface