14.25

National University of Computer & Emerging Sciences

Department of Software Engineering

Software Requirements Engineering

In-Class Group Assignment - Fall 2024

Name	Roll No.
Shagia Fatima	23F- 3068
Abdul- Wahab	23 F- 3038

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 receive recommendation for popular dishes, so I can try best options.
US_C_2	As a customer, I want to schedule orders for specific time so that my food is delivered when I want.
US_C_3	As a customer, I want to view reviews on dishes so. I that I can choose best food.
US_C_4	As a customer, I want to pay through multiple options like debit card, credit card, etc. so that I can use pay my card.
US_C_5	As a customer, I want to alerts on discounts so that I can save my money.

Additional Restaurant Manager/Staff User Stories:

US_S_1	AS a restaurant manager, 9 want to receive inventory notification so that 9 can restoke items on time.
US_S_2	AS a restaurant manager, 9 want to view dashboard of customer feedback so that 9 can make best decisions.
US_S_3	AS a manager, 9 want to assign orders based on worker's workload so that they can work efficiently.
US_S_4	AS a manager, 9 want to update menu availability so that customers see the stoke items.

Additional Deliver Personnel User Stories:

US_D_1	As a delivery person, 9 want to receive real-time navigation, so that 9 can find best route.
US_D_2	As a delivery person, 9 want to view traffic conditions so that there is no delay in delivery.
US_D_3	As a delivery person, 9 want to track my daily earnings so 9 can monitor my performance.

Customer Functional Requirements (FRs)

R_C_1	Allows customers to browse categorized menu with prices.	1.5
R_C_2	Allows customers to select multiple items at one time.	Forma
R_C_3	Allows customer to track delivery status in real-time.	-0
R_C_4	The system shall allow customer to save their favourite restaurants.	
R_C_5	The system shall allow customers to apply promo-codes during check-out.	
R_C_6	The system shall provide recommendations for popular dishes.	
R_C_7	The system shall allow customers to make payment through different mean	
R_C_8	The system shall allow customers to give feedback on their order.	
R_C_9	The system shall allow customers to schedule their orders.	
R_C_10	The system shall allow customers to receive notifications on discounts.	
R_C_11	The system shall allow customers to see their order history.	
R_C_20		

Restaurant Staff Functional Requirements (FRs)

ID	Requirement
R_S_1	The system shall allow managers to update menu-items and pricings.
R_S-2	The system shall att notify managers of inventory shortages.
R_S_3	The system shall provide managers sales record and performance analatics.
R_S_4	The system shall allow managers to communicate with delivery personal and customers.
R_S_5	The system shall allow manager to have access to dashboard to view and manage pending orders in real-time.
R_S_6	The system shall allow manager to track the kitchen staff performance such as preparation time.
R_S_7	The system shall allow manager to track delivery person's performance for customer feedback.
R_S_8	The system shall allow manager to aggregate customer feedback deport.
R_S_9	The system shall allow managers to create update or remove discounts.
R_S_10	The system shall allow managers to prioritize specific orders to ensure timely preparation.
R_S_20	

4.5/5

2

Delivery Personnel Functional Requirements (FRs)

unclear subje
and action

R_D_1	The system shall provide delivery personnel to optimized delivery routes.	
R_D_2	The system shall allow delivery personnel to Enable marking orders as delivered	
R_D3	The system shall allow delivery personnels to see customer contact details.	
R_D_4	The system shall allow delivery personnels to see the order notes.	
R_D_5	The system shall allow delivery personnels to receive notification of new order.	
R_D_6	The system shall allow delivery personnels to see his daily earnings.	
R_D_7	The system shall allow delivery personnel to chat with customer.	
R_D_8	The system shall allow delivery personnel to update their availability status to ensure efficient orders.	
R_D_9	The system shall allow delivery personnel to report issues like accident.	
R_D_10	The system shall allow delivery personnel to integrate with navigation tools like google map.	
R_D_20		

4.25

1.75

(4.5)

4.5/5

Non-Functional Requirements (NFRs)

NFR1	The system should process customer within 2 sec.
NFR2	The del system should refresh delivery status every 5 sec.
NFR3	The system must support 10,000 concurrent user during peak-times.
NFR4	The system interface should be easy to use.
NFR5	The system shall allow user to complete a _Task_ within 3 min.
NFR6	The system shall payment ensure secure payment processing.
NFR7	The system should maintain 99.9% up-time.
NFR8	The order updates data must be backed-up in real-time to prevent data loss
NFR9	The system must be accessible on mobile, desktop and Tablet.

ambiguity
-0.5

use standard
term portability/
accessibility