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.

4/5   **Additional Customer User Stories:**   4 ② ✓✓

So that?	US_C_1	As a coustomer, I want to rate my favrioute dishes so that giving feedback ✓
so that?	✓ US_C2	As a coustomer, I want notification from my favrioute resturants about new deals ✓
so that?	✓ US_C-3	As a coustomer, I want to keep in touch with delivery person. ✓
so that?	✓ US_C-4	As a coustomer, I want different method of payment ✓
so that?	✓ US_C-5	As a coustomer, I want to filter my menu according to price and dishes ✓

⇒ not proper format
so that ?

Additional Restaurant Manager/Staff User Stories:

US_S_1	As a resturant manager, I want to receive inventory notification. so that I can retake items on time
US-S2	As a resturant manager, I want to view dashboard of customer feedback
US-S3	As a manager, I want to assign orders based on worker's workload. so that they can work efficiently.
US-S4	As a manager, I want to update menu availability so that customers see the stock items.

missing so that

Additional Deliver Personnel User Stories: 4

US_D_1	As a delivery person, I want to receive real-time navigation, so that I can find best route.
US-D2	As a delivery person, I want to view traffic conditions so that there is no delay in delivery
US-D3	As a delivery person, I want to replace track my daily earnings. so I can monitor my performance.

atomicity

Customer Functional Requirements (FRs)

R_C_1	Allow coustomers to browse categorized menu
RC-2	Allow coustomers to select multiple item at a time
RC-3	Allow coustomer to track delivery status in real time
RC-4	The system shall allow coustomer to their favrioute resturants
RC-5	The system shall allow recomendation of populor sites?
RC-6	The system shall allow coustomes to made payment through different means
RC-7	The system shall allow coustomer to give feedback
RC-8	The system shall allow coustomer to receive notification on discounts
RC-9	The System shall allow coustomers to apply promo-code doing check out
RC-10	The system shall implement real-time delivery status tracking
R_C_20	

? ?

foward
pres
folow

duplicate
with RC

RC3_RC_10
Redundant
-0.5

incorrect RC 4, RC5
-0.5 each

4.25

1.75
1.5

4.5/5

Restaurant Staff Functional Requirements (FRs)

R_S_1	
✓	System shall allow manger to update menu-items and pricings
RS_2 ✓	System shall notify manager of inventery shortage
RS_3	System shall provide manager sales record and performance analytics
RS_4 ✓	System shall allow manager to communicate with delivery person and caustomer
RS_5 ✓	System shall allow manager the access of dashboard
RS_6 ✓	System shall allow manager to track kitchen performan
RS_7	System shall allow manager to create update
RS_8 ✓	System shall allow manager to prioritize Specific order to ensure timely prepration
RS_9 ✓	System shall allow manager to aggregate caustomer feedback report
R_S_20	

vague ?
?
?

RS_5, RS_7, vague

unclear scope   -0.5
Ambigous subject

Delivery Personnel Functional Requirements (FRs)

R_D_1	System shall provide delivery personnel to optimize delivery routes
R_D_2	System shall provide delivery personnel to enable marking orders.
R_D_3	System shall allow delivery personnels to see customer contact details
R_D_4	The system shall allow delivery personal to integrate with navigation Tool
R_D_5	The system shall allow delivery personal to see his daily earnings
R_D_6	System shall allow delivery personal to chat with customer
R_D_7	System shall allow delivery personal to see order notes
R_D_8	System shall allow delivery personal to update their availability status to efficient order
R_D_20	

Margin annotations: vague (R_D_1), unclear scope -0.5, vague (R_D_2), vague / unclear scope -0.5, unclear (R_D_4), ambiguity -0.75

4.25

1.75

4.5/5

Non-Functional Requirements (NFRs)

NFR1	System should process coustomer order in 2 sec
NFR2	Delevery status update should refresh after 5 sec formal -0.25
NFR3	System must support 10,000 concurrent user durring real times.
NFR4	System interfarance should easy to use
NFR5	The system shall allow user to complete task with in 3 min ambiguity NFRS -0.5
NFR6	System should ensure secure payment method
NFR7	System should maintain 99.9% up-time
NFR8	Order data must be backup in real time to prevent data loss
NFR9	System must be accessible on mobile and PC and tablet use standard term portability/ accessibity

vague