



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:

- 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:

Additional Gustomer Gser Gtones.	3.5
US_C_1 As a customer, A want to schedule an specific time so I can receive it when it convenient for me.	es most
As a customer, I want to leave ratings for both restaurent and delivery personnel provide feed back on my experience.	and reviews so I can
As a customer, A want to reorder my f with a single click so I can save time	art orders
As a customer, I would to be notified promotions and discounts was push notified so I don't miss special deals.	af new fications
	·

Additional Restaurant Manager/Staff User Stories:

US_S_1	As a restaurant manager, A want to assign specific staff to handle peak hours so that operations run smoothy.
V.	As a restaurant manager, A want to track order preparation time so I can i deilify both enecks.
15	As a restaurant manager, I now to get customer feedback reports for quality improvements.
	As a restaurant manager, A mant to promote special dishes to increase sales of underperforming items.

Additional Deliver Personnel User Stories:

US_D_1	As a delivery person, I want to view o soler priority so I can manage my workload effectively.
	As a delivery person, A want to receive reminders for pending deliveries to ensure A don't miss any.
72.	As a delivery person, A want to update my availability status so I don't get assigned orders when a'm unavailable.
2	As a delivery person, it would to view delivery history so I can track my completed axignment.
,	

1.16	
Customer Functional Requirements (FRs)	0.75
R_C_1/18bell	
LAY Allow customers to search	ch for
restaurants by wisine	, price
0x ratings.	• 11 - 11
pro Provide a feature t	o add
multiple items to the	cont.
or Enable real-time order	tracking
with map integration	,
400 Anchide à "Save as F	avorite"
Jealure for restaur	auts.
5). Offer promo code appl	ication
and valiadation at	
6). Enable schedulling of	orders
for specific times.	
7). Allow castomers to	rate
and review orders.	
8). Support special initary for orders.	actions
for orders.	, ***
R_C_20	

4.5/5

Restaurant Staff Functional Requirements (FRs)

0.75

1	, cottaurar	it Starr Functional Requirements (FRs)
5	R_S_1	
	1)(Provide an interface to
_		add, edit, or remove menu
		items and prices.
	2).	Notify managers of new orders
		imme diately-
	3).	Allow marketing menu items
		as "Out of Stock".
	n).	Grenerate sales reports for
7		different time periods.
	5).	Enable communication between
		managers and delivery nersonnel
	6).	Provide analytics an order
4		perparation times and
		perparation times and customer feedback.
	\$7).	Allow configuration of working
		hours and promotional
		banners.
	R_S_20	

Delivery Personnel Functional Requirements (FRs)	0-95
Cyle-D-17 rel	
1) Provide optimized	roule
suggestions using map	APIS.
suggestions using map 2). Enable making orde	ers as
"De livere ol".	
3). Notify delivery pers	an ments.
will Display 'customer (orilact
delails for resolving	issues.
delails for reporting of	delivery
delays with reasons.	7
6). Anchede a status t	oggle
show delivery his? pending assign ments.	
Show delivery his	Lory and
pending consigniments.	
R_D_20	

NFR1	RESIDENCE TO A STATE OF THE PROPERTY OF THE PR
X.	The system should handle at least
	500 concurrent users with
	minimal latency.
21.	OReal time updates for
)(order tracking should occur
	within 2 seconds of stalus
	changes.
31.	The system should scale to
	OCCOmmodate new restauran
	and regions without significan
	redesign.
W/	TEnsure deila encryption for sensiti
1	in formation like payment details
	and customer address.
51	
(3).	Provide mulli-language support to diverse user demographics.