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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.

4.5	formall
Additional Customer User Stories:	70.5
US_C_1 As a customer, I want to give feedback so that I could rate my favourite dishes.	
I could rate my favourite dishes.	
As a customer, I want to get notified about Us-C-2 Talest deals from my gavourite restraunts. So I C	
Us-C-2 Totest deals from my gavourite restraunts. So	
As a contamer. I want to be able to contact	- 11-42
As a costomer, I want to be able to contact US-C-3 delivery / Service person regarding delivery updates.	58
according want to gilter menu according	
US-C-4 to prices in order to get dishes according to my bug	get . 81 1C
1 want to be able to pay	'
US-C-5 As a customer. I want to be able to pay through different payment methods. (5)	

As a customer, I want to be able to customize Us-C-6 my order with special instructions (soch as ingredients or adding extra toppings) 80 160+?

Additional Restaurant Manager/Staff User Stories:

7		
1	15	\
	(2))

US_S_1	As a restraurant manager, I want to track my inventory so that I can levels and recieve alerts when I need to restock items.
US-S-2	As a restaurant manager, I want to assign duties to different Kitchen Staff.
	As a restaurant manager, I want to be able to
	As a restaurant manager, I want to be able to communicate with customers about their orders.
US-S-4	As a restaurant manager, I want to create and manage employee schedules, assign roles, permissions.
/	As a restaurant manager, I want to launch
US-5/5	As a restaurant manager, I want to launch promotional deals to attract customers.

Additional Deliver Personnel User Stories: 4.75

Jus_D_1 As a delivery Personnel, I want to see my task list for assigned delieveries. So had so get updates

US-D-2 from costomers so that I could deliver convieniently and efficiently.

As a delivery Personnel, I want to see my earnings

US-D-3 for each delivery, so that I can track my income As a delivery Personnel, I want to report issue to restaurant Manager so that I can avoid inconvienence. As a delivery Personnel, I want to see my working hours so that I could track and manage my earnings accordingly.

	(=(2)	
1	Custome	r Functional Requirements (FRs)	
	R_G_1	System shall allow users to track their orders in real time.	
	R-C-2	The system shall display description of menu items including ingredients prices and photos.	*
1/2	-R-C-3	The system shall allow user to customize their orders such as removing ingredients or adding extra toppings	
duplicate	-R-C-4	The system shall allow user to add item's to carp. rectunda	nl
ather	Rsc-5	The system shall allow user to make changes in Eart before placing orders.	
auk	R-C-6	The system shall provide real time tracking of orders from preparation to delievery.	
	R-C-7	The system chall support variety of payment methods median	dont
atric	R-C-8	The system shall provide uses with confirmation of their	
.*	R-C-9	The system shall send notification to user when their the order is confirmed prepared and is on its way.	
- :	P-C-10	The system shall allow user to Provide Jeedback and ratings for restarants.	
	R-C-11	The system shall allow user to provide feedback and ratings for delievry services.	
~	R-C-12		
	R-C-13	1 163 (40) (417) 401 - 1000 0 0-20	
	P-C-14	0)013	
	R-C-15	The system shall allow user to browse menus., restraunts.	
- He 28 1	1 1	Bed was field of who filler to the contract to a good to the	
	No.		

R_C_20

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Restaurant Staff Functional Requirements (FRs)

	Hootaare		
	R_S_1	The system Unil display incoming orders in real time.	
	R-S-2	The system shall allow staff to prioritize orders based on unge	ncy
	R-S-3	The system shall staff to track the progress of order from	detion.
	R-C-U	The system shall allow staff to track inventory levels.	
,	DCC	The System Shall allow managers to assign rols uppermissions to st	off.
	-R-S-6	The System shall allow staff to add, edit up read menu items.	
	000	The Cyclen Shall allow stoff to communicate with condexs.	
1	D C R	The System Shall allow Staff to create markiting deads by promi	DIJOLA .
	D-C 9	The Sydem shall allow Staff to offer discourts 4 coupeons to	Jomess.
	D C 10	The System shall allow staff to communicate with Staff.	
	R-S-11	The System Shall allow Staff members to track their progress	ortasks.
	P C 12	The System shall allow Staff members to view their payment	S·
	- 110	out - sustain shall allow managers to manage payments.	
	R-S-1	The system shall send notification to staff members, when tos	sks are due.
*			
	R_S_20		

4.5

Delivery Personnel Functional Requirements (FRs)

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(R_D_1	The System Shall allow delivery person to mark deliveries	
	R= 0-2	The system display all assigned delivered in	
	72-D-3	The System shall allow delivery person to make deliveries as completed. The System display all an igned deliveries in Thei system shall dluw delivery personnal to communicate with cultomer about deliveries The system shall allow delivery personnal to thuck their earning and performance the system shall allow delivery personnal to calculate delivery time depending in fautoss fixe calculate delivery time depending in fautoss fixe redunde	
	12-D-4	The system shall allow delivery personnal to like	
	N-D-5	calculate delivery time depending on foutoss fredunda	ml
mujet to	5	To trafic condition, road colosor.	•
m /	12.0-6	The system shall allow delivery location updates from curtomers about delivery location to seel	
	207	notification to customers when delivery on the way	
	VR-D-0	The system shall allow delivery personnal to see the system shall track delivery personnal earnings the system shall track delivery personnal performance the system shall track delivery personnal performance the system shall track delivery personnal performance such as chelivery time and curtomes satisfication to the system shall uprovide delivery personal with the system shall uprovide delivery personal with the system shall response delivery personnal for the system shall response delivery personnal with the system shall response delivery personnal for the system shall response delivery personnal with the system shall response delivery personnal and system shall are system shall response and system shall response and system shall are system shall response and system shall response shall response and system shall response and system shall respon	4.
	12-0-9	such as delivery fine and convers sample value	74
	P-D10	a Jeature of help and Support	
	R-0-11	The system shall response delivery person with the insight the shall provide delivery person with the insight how he can improve his efficiency	
	R-D-12	how he can improve his efficiency	
_,\			
	18		
	R_D_20		

Non-Functional Requirements-(NFRs) The system shall responde to user within 2 24/7. The Shall protects user's data from unorthorized System shall provide tools for managers to monitor system shall be optimized for mobile devices up desistops etc. be available on both 105 up Anderiod Photosms. compley with data privacy regulations such as GIPPR. be available in multiple language coded stratt) use secure payment goleway, API's etc. offer multiple ways for customer support such SMS The System Shall provide reports on sails , never FR FR shall recommed FR NEPA