

<b>Course Code: IT 320</b>		<b>Final Exam</b>	
<b>Course Title: Practical Software Engineering</b>			
<b>Semester: Second 1441 H/ Spring 2020</b>			
<b>Answer Sheet</b>			
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<b>Section No.</b> 52862			
<b>Section Time:</b> 10-11			
<b>Student Serial No:</b> 17			
<b>Course Learning Outcomes</b>	<b>Question No</b>	<b>Points</b>	<b>Student's Points</b>
Requirements Engineering	1	5	
Software Testing	2	5	
Architectural design	3	5	
Component-level design	4	5	
Total Points		20	

<b>Chosen App Name</b>	Wseel وصل
<b>Description of the App</b>	Application that gives you many option of restaurants to delivers food
<b>Why did you choose this App?</b>	From my point of view it the best app because it's easy to use& Quick delivery

## Question-1

### Functional requirements :

1. The customer shall be able to signup to the system
  - 1.1 the system shall allow the customer to signup by entering his(first name , last name,password and password confirmation )
  - 1.2 the system shall validate the entered information
  - 1.3 the system shall indicate that there is invalid input if the customer entered invalid input
  - 1.4 the system shall allow the customer to enter his phone number
  - 1.5 the system shall validate the entered phone number
  - 1.6 the system shall display a message if the number invalid or have been used
  - 1.7 the system shall sent a SMS checking code to the customer
  - 1.8 the system shall allow the customer to enter the SMS checking code
  - 1.9 the system shall confirm the checking code by opening the profile page
2. The customer shall be able to log-in into the system
  - 2.1 the system shall allow the user to enter phone number and password
  - 2.2 the system shall validate the entered information
  - 2.3 the system shall indicate that there is invalid input if the customer entered invalid input
  - 2.4 the system shall confirm the logging-in by opening the profile page
3. The customer shall be able to browse his cart
  - 3.1 the system shall allow the customer to view and edit his location
  - 3.2 the system shall allow the customer to view all the items in the cart
  - 3.3 the system shall allow the customer to make changes to his items (edit ,delete,add )
  - 3.4 the system shall allow the customer to write note
  - 3.5 the system shall allow the customer to select a payment method
  - 3.6 the system shall display a message either the payment method is valied or not
  - 3.7 the system shall allow the customer to add a promo-code
  - 3.8 the system shall display a message either the promo -code is valied or not
  - 3.9 the system shall allow the customer to view the total in (SR)

### Non-Functional Requirements

- 1- The system shall be accessible through mobiles and tablets with ether IOS or android operating system .
- 2- 90% of novice customers can learn to set an order without outside assistance.

## Question-2

### Req 1:

Test case No.	Test case description	Test case data
1	When the customer enters a correct data conceded as valid inputs and redirects to the profile page	first name:shahad last name:alshabri password:shahad123456 password confirmation: shahad123456
2	When the customer enters a password confirmation that doesn't match the password conceded as invalid inputs And display message	first name:shahad last name:alshabri password:shahad123456 password confirmation: shahad

### Req 2:

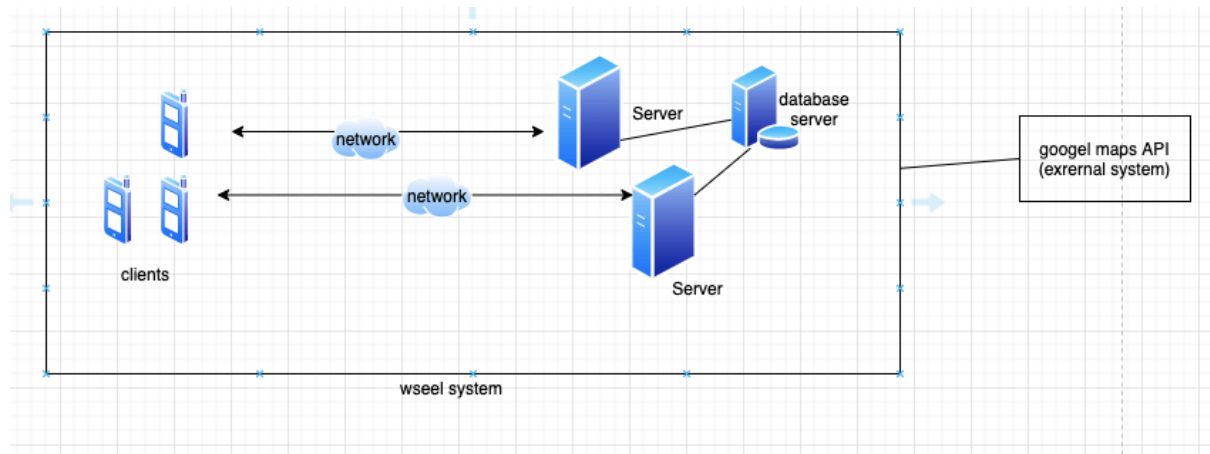
Test case No.	Test case description	Test case data
1	When the customer enters noting conceded as invalid inputs And display message	Nothing (empty fields)
2	When the customer enters phone number less than 10 digit conceded as invalid inputs And display message	Phone number :050966 password :shahad123456

### Req 3:

Test case No.	Test case description	Test case data
1	When the customer enters an invalid promo-code conceded as invalid inputs And display message	Promo-code : KSU89
2	When the customer select an expired card conceded as invalid input And display message	Select : card with expired date 02/2019

### Question-3

A



B

#### **Multi-tier**(client-server) architecture

Since the system serve multiple clients and they all need to share and use the same resources at the same time , also the system accept request and response to many client at the same time , and the system need to be always available (so we have more than server ) and the data base is large and the customer information has to be secure so we have to store them in separated server so Since we need to separate our system logical parts the most appropriate pattern is **Multi-tier**(client-server)

C

Advantage :

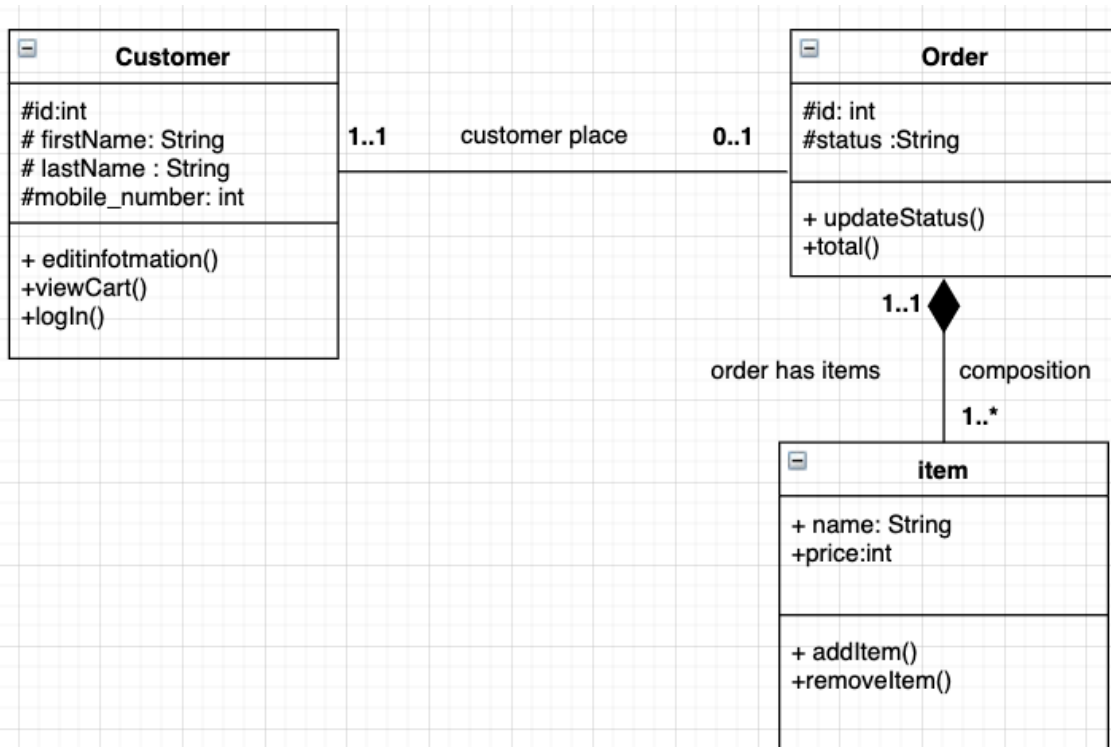
Maintainability because every part is independent .

disadvantage:

difficult to develop and manage .

## Question-4

A



B

Log In method

