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CLASS : SE

SECTION : B

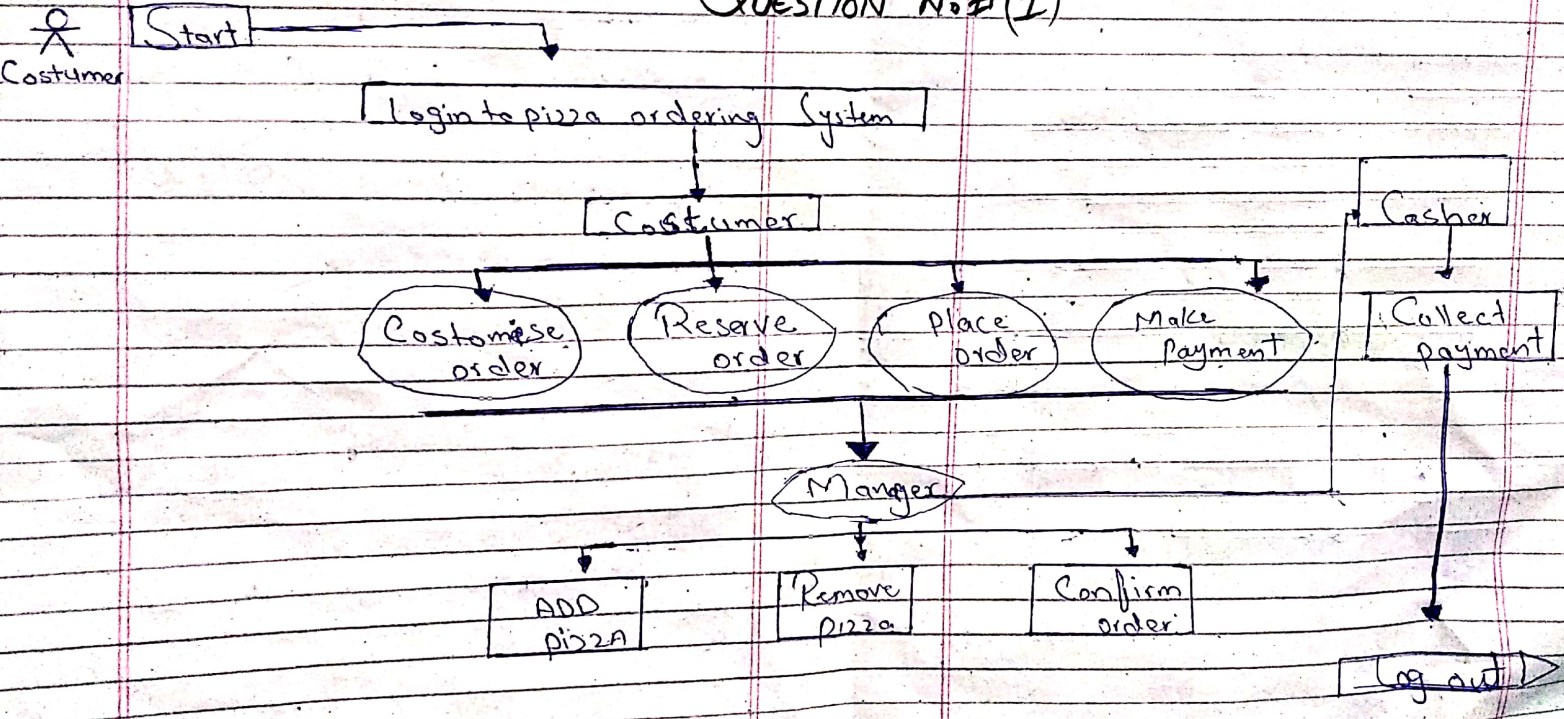
SEMESTER : 4th

COURSE : Software ENGINEERING₆

COURSE INSTRUCTOR : GHASSAN
FLUSNAIN

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QUESTION No # (1)



Question No# 02

Suggest how an engineer responsible for drawing up a System between functional and non functional.

Solution:-

Engineer would have to make a Systems Requirements Document. An Engineer could provide documents for each functional and nonfunctional requirement. The Engineer should use natural language for non-functional requirement and structured language for functional requirements. The functional requirements are more for developer's eyes and to use. The non-functional requirements are what user wants and what they expect to get out of the software being developed.

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The engineer would also have to make sure that the non-functional requirements don't conflict with the functional requirements.

QUESTION No # 03

To reduce Costs and the Environmental impact of commuting, your company decided to close a number of offices. How you might get around these problems.

Solution:-

If the company decided to close down a number of offices that were specialized in using agile methods they may face a multitude of difficulties. When a company is driven by a close team and is divided they will be unable to have daily meetings which can cause issues with communication, programming in pairs would not be possible, a communication issues and ~~detecting errors would~~ job would be created, productivity will slowdown

(5)

due to Communication issues, and detecting errors would be quite difficult.

These problems can be avoided by creating merging offices together so pair programming and daily communication can be established. If that is not possible, a communication platform consisting of webcams, desktop viewing software, and microphones should be created to allow better communication.

Question No # 4

Discover difficulties / ambiguities or omissions in the following Statement of requirement for part of a ticket-issuing System.

An automated ticket issuing System has been validates, the ticket is issued.

Ambiguities and omissions include:

- 1) Can a Customer buy Several tickets for the same destination together must they be bought one at a time?
- 2) Can Customers Cancel a request if a mistake has been made?
- 3) How should the System respond if any invalid Card is input?

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4) What happens if Customers try to put their Card in before selecting a destination (as they would in ATM machines)?

5) Must the User Press the Start button again if they wish to buy another ticket to a different destination?

6) Should be the System only sell tickets between the Station where the machine is situated, and direct connection or should it include all possible destinations?

(3)

Question No # 5

Using your knowledge of How ATM is used Requirement for An ATM System

▶ The user inserts card into the reader. The ATM asks for PIN. User enters PIN correctly. The ATM displays user's bank information and user withdraws money. ATM dispenses the money.

▶ The user inserts card into the reader. The card cannot be read. The ATM displays the error and ejects the card.

▶ The user inserts card into the reader. The ATM asks for PIN. User enters PIN incorrectly 5 times. The ATM alerts the bank of a possible stolen card.

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Customer

check balance

Deposit balance

withdraw balance

Transfer balance

BANK

Maintenance

Administrator

Repair