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SECTION : "A"

DEPARTMENT : B&S (SE)

PAPER : SOFTWARE ENGINEERING

EXAM : MID TERM

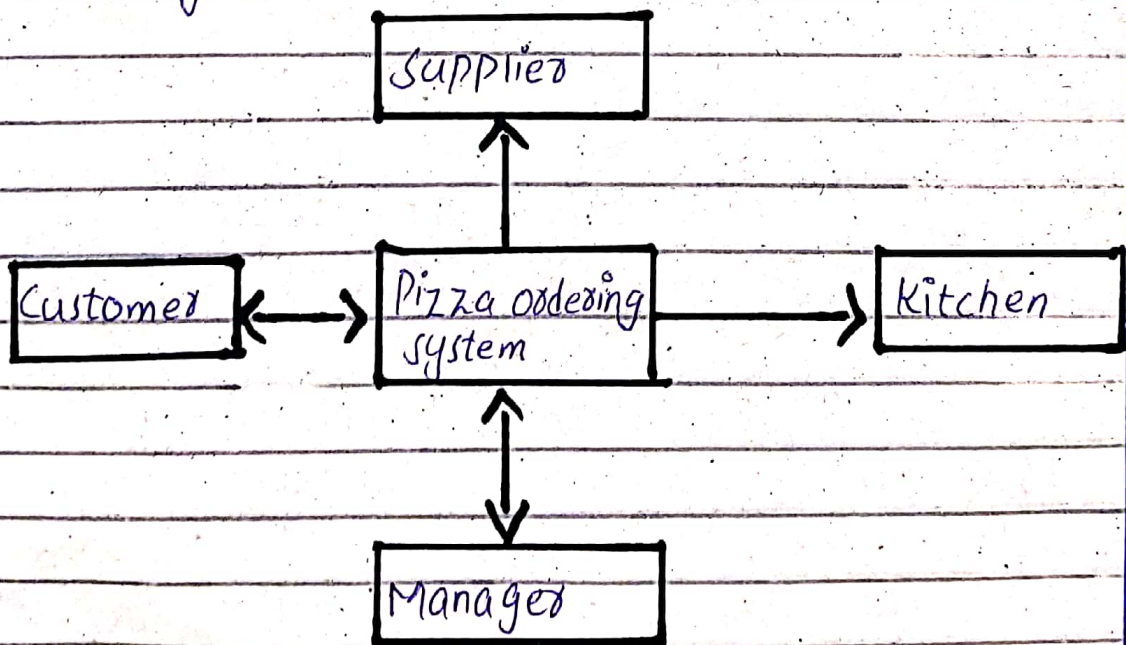
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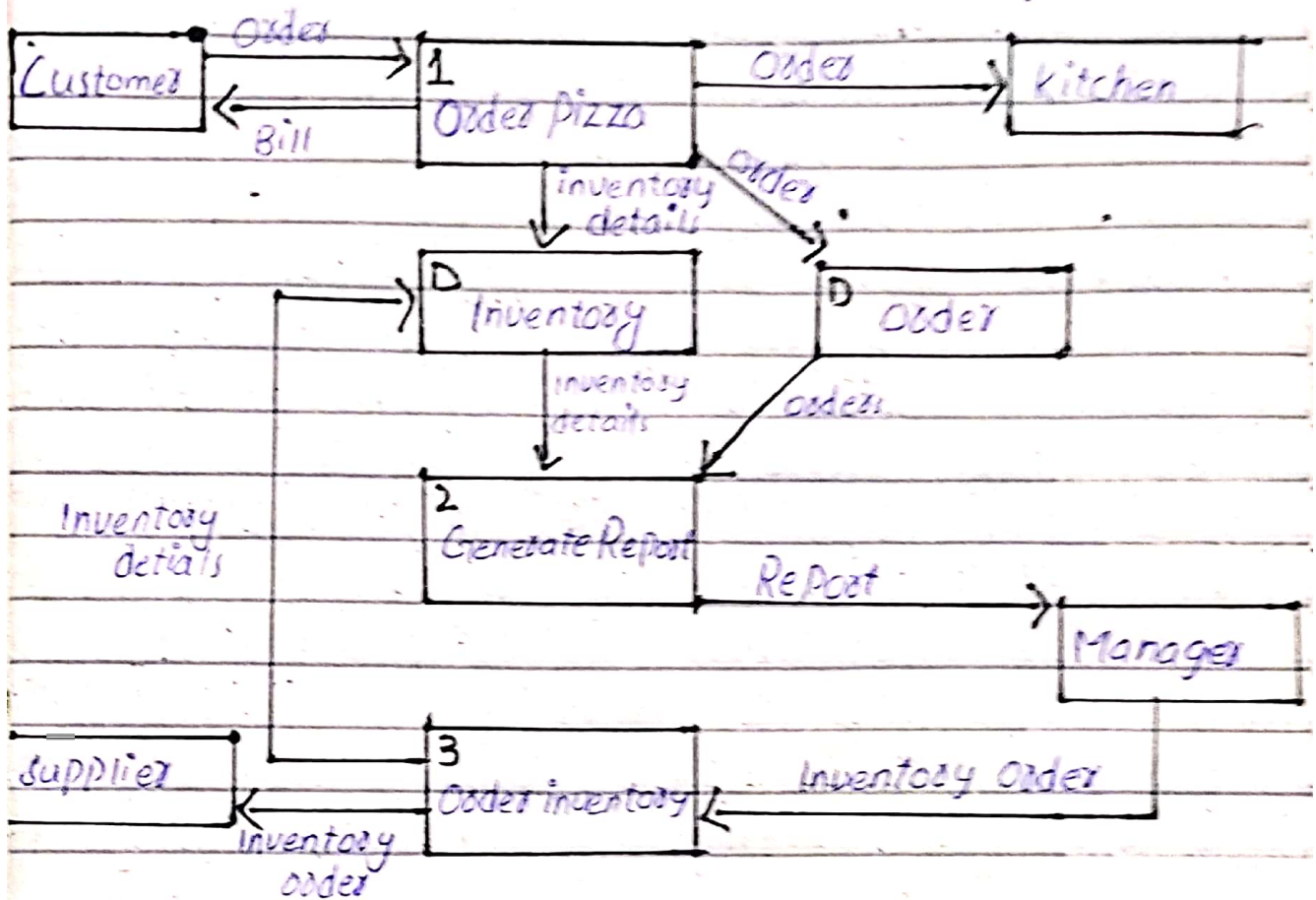
SUBMET TO : GHAFFAN HASNAIN

DATE : 15, APRIL, 2020

# ANSWER NO : 1

The figure below shows a Content data flow diagram that is drawn for Pizza ordering system. It contains a process that represents the system to model, In this case, the "Pizza ordering system". It also shows the participants who will interact with the system, called the external entities. In this example, the Supplier, Kitchen, Manager, and Customer are the entities who will interact with the system. In between the process and the external entities, there is a data flow that indicate the existence of information exchange between the entities and the system.





The Pizza Order System. Data flow diagram example contains three processes, four external entities, and two data stores.

Based on the diagram, we know that a Customer can place an order. The Order Pizza process receives the order, forwards it to the kitchen, store it in the Order store, and store the updated Inventory details in the inventory data store. The process also delivers a Bill to the Customer.

The Manager can receive Reports through the Generate Report Process, which takes Inventory details and orders as input from the inventory and order data store respectively.

The Manager can also initiate the order inventory process by providing inventory order. The process forwards the inventory order to the supplier and store the updated inventory details in the inventory data store.

# ANSWER NO : 2

**FUNCTIONAL** requirements describe the system what it will do.

**NON-FUNCTIONAL** requirements describe the expectation but it is not concerned with the system.

While drawing up a system requirement specification, an engineer might keep track up the functional and Non-functional requirements by ensuring the following:

- The requirement needed to design meet the requirement such as Compatibility, portability etc.
- Design the system so that it ensure the safety and security.
- Implementing the system in an efficient manner.
- The cost and time require for the development should not effect the design and implementation of the system.

Here the non functional requirement defines what the expectation to get out are the user requirements.

The functional requirement defines the use of the developed knowledge. It does not conflict with each other.

The first step is to make the system requirement document.

It is engineer responsible to paper document to each functional and non-functional requirement.

The engineer meets to paper document depending on this. Non-functional requirements need the natural language and functional requirement need the structured language to understand better.

- It gives the matrix that show each requirement related to each other.
- It is every difficult to manage because the functional and non-functional requirement put efforts to each other on track of relationship.
- Non-functional requirement linked with functional requirement to list identify the system level that have related each other.
- The engineer needs to prepare the way to link the functional to non-functional implement.

## ANSWER NO: 4

It is difficult to introduce agile methods into large companies for a number of reasons.

1: Project managers who don't have experience of agile method may be reluctant to accept the risk of a new approach, as they do not know how this will affect these particular project.

2: Large organization often have quality procedures and standards that all project ~~are~~ are expected to follow because of their bureaucratic nature, these are likely to be incompatible with agile methods.

Sometimes, these are supported by software tools and the use of these tools is mandated for all projects.

3: Agile methods seem to work best when team members have a relatively high skill level.

However large organization there are likely to be wide range of

Skills and abilities. And people with lower skills level may not be effective team member in agile process.

4: There may be cultural resistance to agile methods, specially in those organization that have a long history of using conventional system engineering process.



## ANSWER NO : 4

In this first if the person have no credit card. Then what? What's have the process of cash.

What if the person choose the wrong destination? So can he go back in options?

Is there a cancel option to change the destination?

Is there voice for blind who can't read?

ANSWER NO: 5

ATM Case Diagram:-

