Name :> Qazi Azmat Ullah

ID NO :>   14448

Department :> Computer Science

Program :> Software Engineering

Semester :> 4TH

Section :>   A

Subject :> Software Engineering

Question Number 1

PIZZA ORDERING SYSTEM

Answer:

Web browser/Online system

- Home delivery Pizza order
- Place Order
    o Shopper/Customer search
    o Items search
    o Add items
    o Add to Cart
- Selected items
    o Shopper/Customer
    o Provide Address
    o Pay Cash
    o Credit Card- PayPal, Amazon, Bank
- Shopper Registration
    o Create Account
    o Save Name
    o Address
    o Other information

Online PIZZA ORDERING
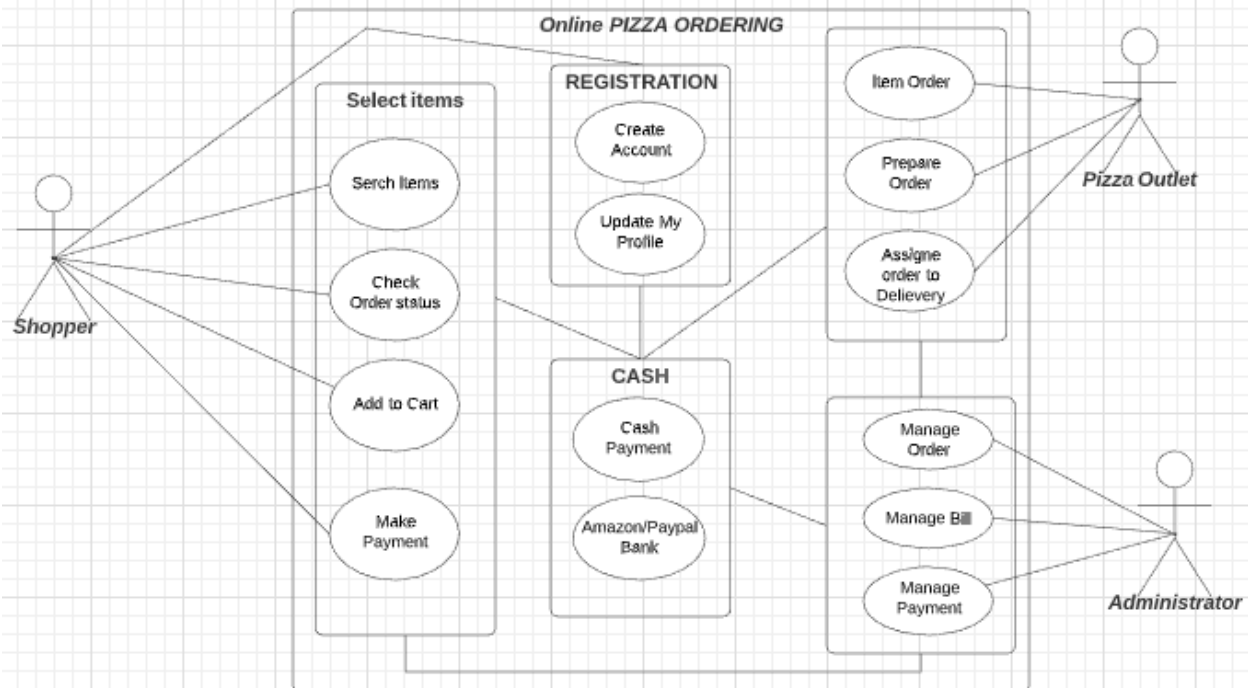
Question Number 2

Answer:

While drawing up a system requirements specification, an engineer might keep track of the functional and non-functional requirements by ensuring the following: The requirements needed to design meets the requirements such as compatibility, portability etc. Design the system so that it ensures the safety and security.

To define the answer first, we need to know about the system requirements and its specification. A System Requirements Specification is a structured collection of information that embodies the requirements of a system. A System Requirements Specification (SRS) is a document or set of documentation that describes the features and behavior of a system or software application. It includes a variety of

elements that attempts to define the intended functionality required by the customer to satisfy their different users. The desire system which is going to be developed is dependent on requirements. Once the requirement collects by correct manner the desire result should be efficient.

The SRS depend on the methodology employed by the agile and waterfall formality levels and details which vary SRS but in general an SRS should include a description of the functional and Non-functional requirements, system requirements, technical requirements, constraints, assumptions and acceptance criteria.

A functional requirement describes what a software system should do, while non-functional requirements place constraints on how the system will do so.

An example of a functional requirement would be:

A system must send an email whenever a certain condition is met (e.g. an order is placed, a customer signs up, etc.).

A related non-functional requirement for the system may be:

Emails should be sent with a latency of no greater than 12 hours from such an activity.

The functional requirement is describing the behavior of the system as it relates to the system's functionality. The non-functional requirement elaborates a performance characteristic of the system.

Typically, non-functional requirements fall into areas such as:

- Accessibility
- Capacity, current and forecast
- Compliance
- Documentation
- Efficiency
- Effectiveness
- Extensibility

- Portability
- Quality

Non-functional requirements may also describe aspects of the system that don't relate to its execution, but rather to its evolution over time (e.g. maintainability, extensibility, documentation, etc.).

Functional requirements are the main things that the user expects from the software for example if the application is a banking application that application should be able to create a new account, update the account, delete an account, etc. functional requirements are detailed and are specified in the system design

Non-functional requirement is not straight forward the requirement of the system rather it is related to usability (in some way) for example for a banking application a major non-functional requirement will be available the application should be available 24/7 with no downtime if possible.

Question Number 3

If the company decided that number of offices to close down that were specialized in using agile method they will face multitude of difficulties. When company is closed they will be unable to have daily meetings, which can cause of communication and programming in pairs of would not be possible. A communication gap would be created, productivity will slow down due to communication issues and detecting errors would be quite difficult. There would be definitely be communication gap among the team members. There are

numerous benefits which are obtained through agile method but because of arrangement it would be nullified .error detection and evaluation benefits through pair programming would be completely lost. Since there are sudden changes in the teams , the project development would slow down. these problems can be avoided by creating merging offices established. Team If that is not possible a communication platform consisting of webcams desktop viewing software and microphones should be created to allow better communication.

Question Number 4

Ambiguities and Omission include

(a) Can a customer buy several tickets for the same destination together or must be bought at one time ?

(b) Can customers cancel a request if a mistake has been made ?

(c) How should the system respond if an invalid card is input ?

(d) What happens if customers try to put their card in before selecting a destination(as would in ATM machine) ?

(e) User press the start button if they want to buy another ticket for different destination ?

(f) Should the system only sell tickets between the station where the machine is situated and direct connections or should it include all possible destinations ?

Question Number.5

ATM System