

# **Software Engineering Answer Sheet**

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Program:

BS(Software Engineering)

Section: A

**IQRA NATIONAL UNIVERSITY,PESHAWER**  
**HAYATABAD PHASE-II**

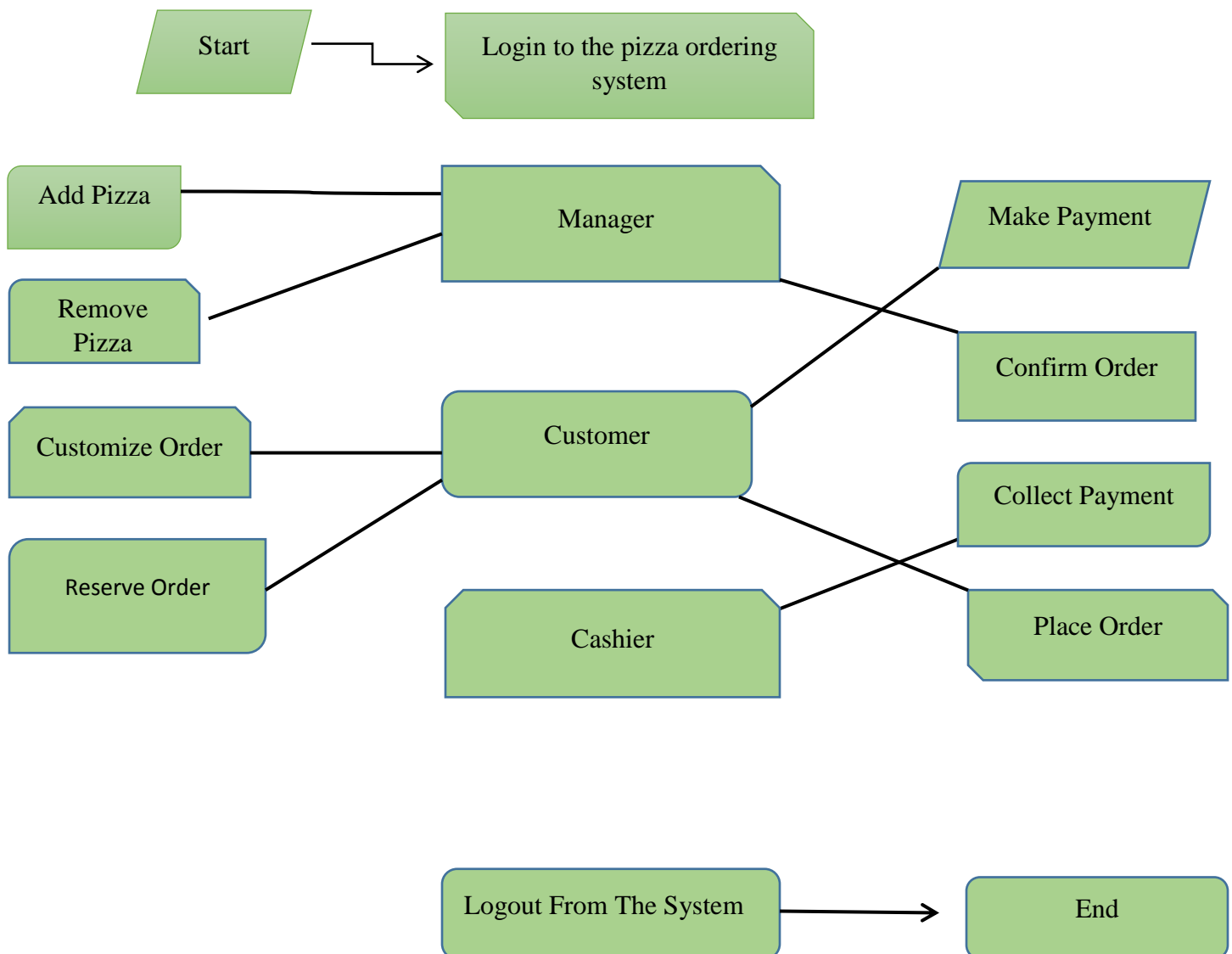
## Question: 1

### The Pizza Ordering System

The Pizza ordering system allows the user of a web browser to order pizza for home delivery to place an order a shopper searches to find items to purchase ads, items one at a time to a shopping cart and possibly searches again for more items

When all items have been chosen, the shopper provides a delivery address. If not paying with cash, the shopper also provides a credit card information.

Ans:



## ➤ Conclusion

- The pizza order application for android help us to order pizza from a stand alone place.
- Before placing an order the user can view the available pizza shops at any place , the list of pizzas with their price ,order a pizza after seeing it's images and pay the bill using a card.

## ➤ Benefits

- Serves the users with all the requirements that can be easily accessible in a mobile.
- High graphical user interface.

**Q2:** Suggest how an engineer responsible for drawing up a system requirements specification might keep track of the relationships between functional and non-functional.

**Solution:**

Engineer would have to make a Systems Requirements Document. An Engineer could provide documents for each functional and non-functional requirement. The Engineer should use natural language for non-functional requirements 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. The engineer would also have to make sure that the non-functional requirements don't conflict with the functional requirements.

**Q3:** To reduce costs and the environmental impact of commuting, your company decides to close a number of offices and to provide support for staff to work from home. However, the senior management who introduce the policy are unaware that software is developed using agile methods, which rely on close team working and pair programming. Discuss the difficulties that this new policy might cause and how you might get around these problems.

**Solution:**

The difficulties that this new policy might cause are: There would definitely be communication gap among the team members. There are numerous benefits, which are obtained through agile methods. But because of this 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 be slowed down. The measures that can be taken to get around...

Also Daily meetings cannot be conducted.

Q4. Discover Difficulties /ambiguities or omissions in the following statement of requirements for part of ticket-issuing systems:

An automated ticket-issuing system sells rail tickets. Users select their destination and input a credit card and a personal identification number. The rail ticket is issued and their credit card account charged. When the user presses the start button, a menu display of potential destinations is activated, along with a message to the user to select a destination. Once a destination has been selected, users are requested to input their credit card. Its validity is checked and the user is then requested to input a personal identifier. When the credit transaction has been validated, the ticket is issued.

**Ans:**

Ambiguities and omissions include:

- a) Can a customer buy several tickets for the same destination together or must they be bought one at a 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 they would in ATM machines)?
- e) Must the user press the start button again if they wish to buy another ticket to a 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?

Q5: Using your knowledge of how an ATM is used, develop a set of use cases that could serve as a basis for understanding the requirements for an ATM system.

Answer:

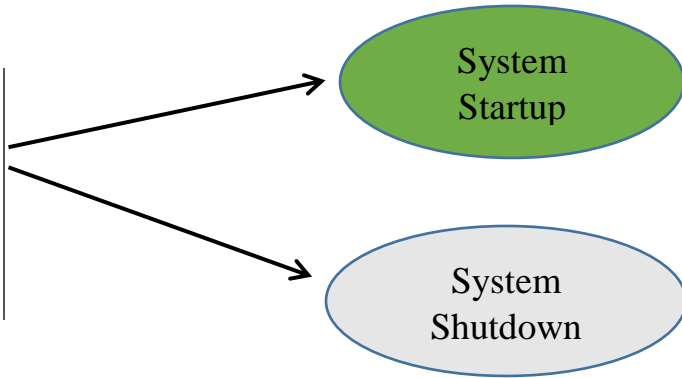
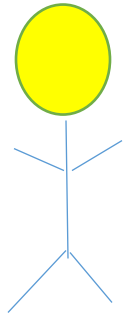
**Enter Pin-** This step applies only to the user. They will be asked to enter their pin number in the ATM. It will be securely transmitted to the bank to grant access to the money in the account.

**Withdrawal Amount-** This applies to both the user and the banker. The user is able to choose how much money they are going to withdraw based off of options on the ATM screen. The banker is able to see the amount of money that the user is attempting to withdraw. Only the user can change the amount that is going to be withdrawn.

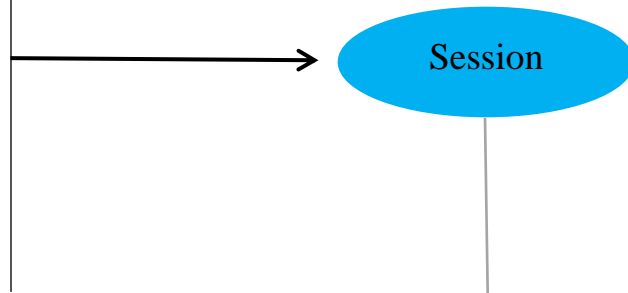
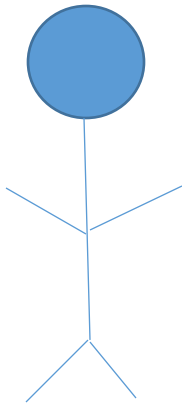
**Account Verification-** This applies to only the banker. They are able to view transaction history and the account credentials and assess if the withdrawal that is taking place is the correct customer.

**Receive Money-** this applies only to the user. Once the transaction has been processed, the user will be able to pick up the money from the ATM machine. The amount withdrawn should be equal to the amount requested on the ATM screen.

# ATM System



## Operator



## Customer

