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: Class : BS (SE) section "B"

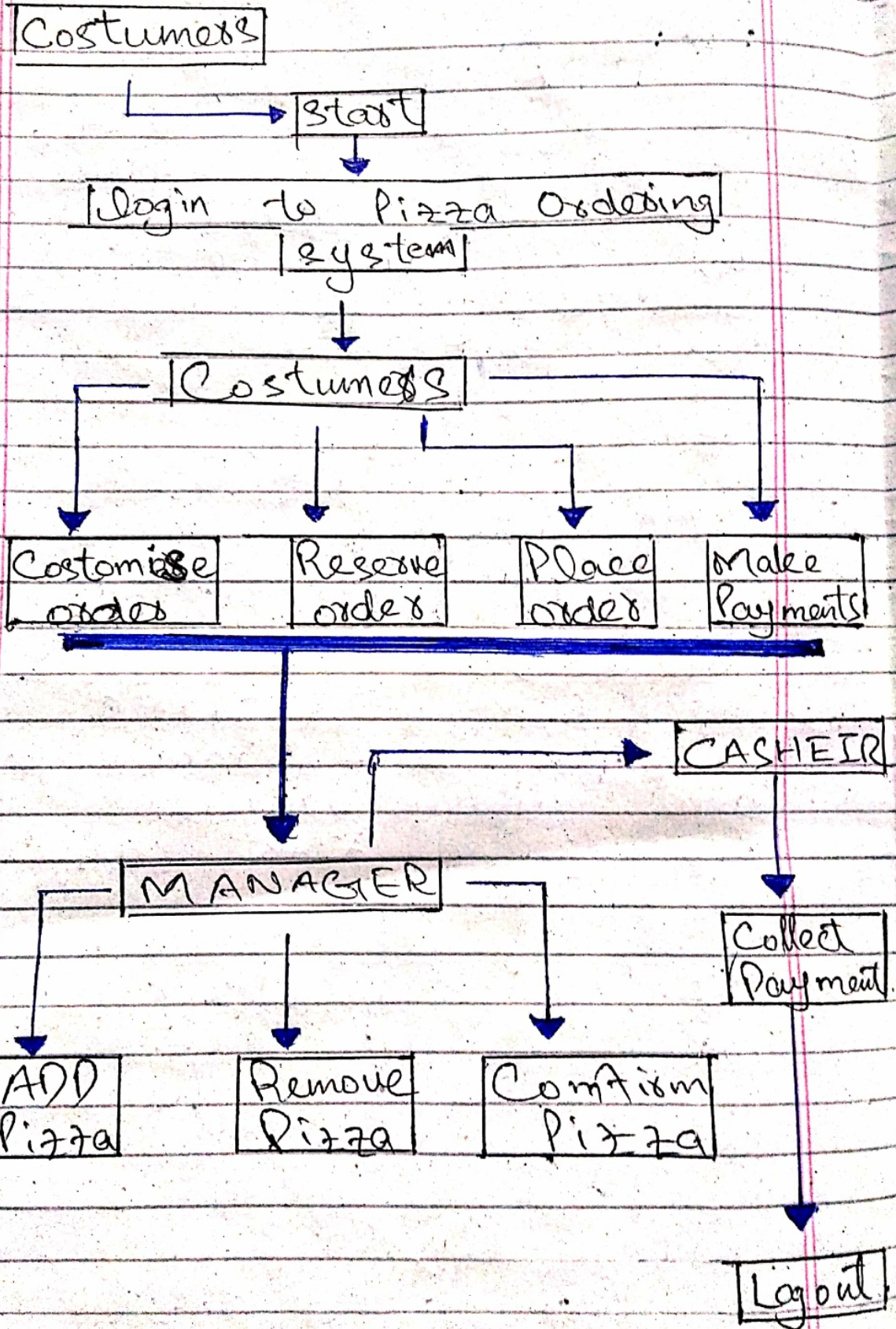
: ID : 14972.

: Course : Software Engineering.

: Instructor Name:

: G Hassan Hassanain.

:Q1:



: Q2 :

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

: Ans :

Engineer would have to make a System Requirements Documents. An Engineering could provide documents for each functional and non-functional requirement. The Engineering should use natural language for non-functional and structured language for functional requirements. The functional requirements are made 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 engineering would also have also have to make sure that the non-functional requirements don't conflict with the functional requirements.

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: Q 3:

To reduce costs and the environmental impact of commuting, your company decides to close a number of offices.

and pair programming. Discuss the difficulties that this new policy might cause and how you might around these problem.

: Answer:

If the company decided to close down a number of offices that were specialized in using agile methods they may face a multiple 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 ~~use~~ cause ~~issue~~ issues with communication. Programming in pairs would

Page : 4 : Q 3 Part:

not be possible, a communication gap would be created, productivity will show down due to communication gap issues, and detecting errors would be quite difficult. The 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 can be platform consisting of webcam, desktop viewing software, and microphones should be created to allow better communication.

-: Q 4 :-

An automated ticket-issuing system sells rail tickets. Users select ..... 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?

-:QS:-

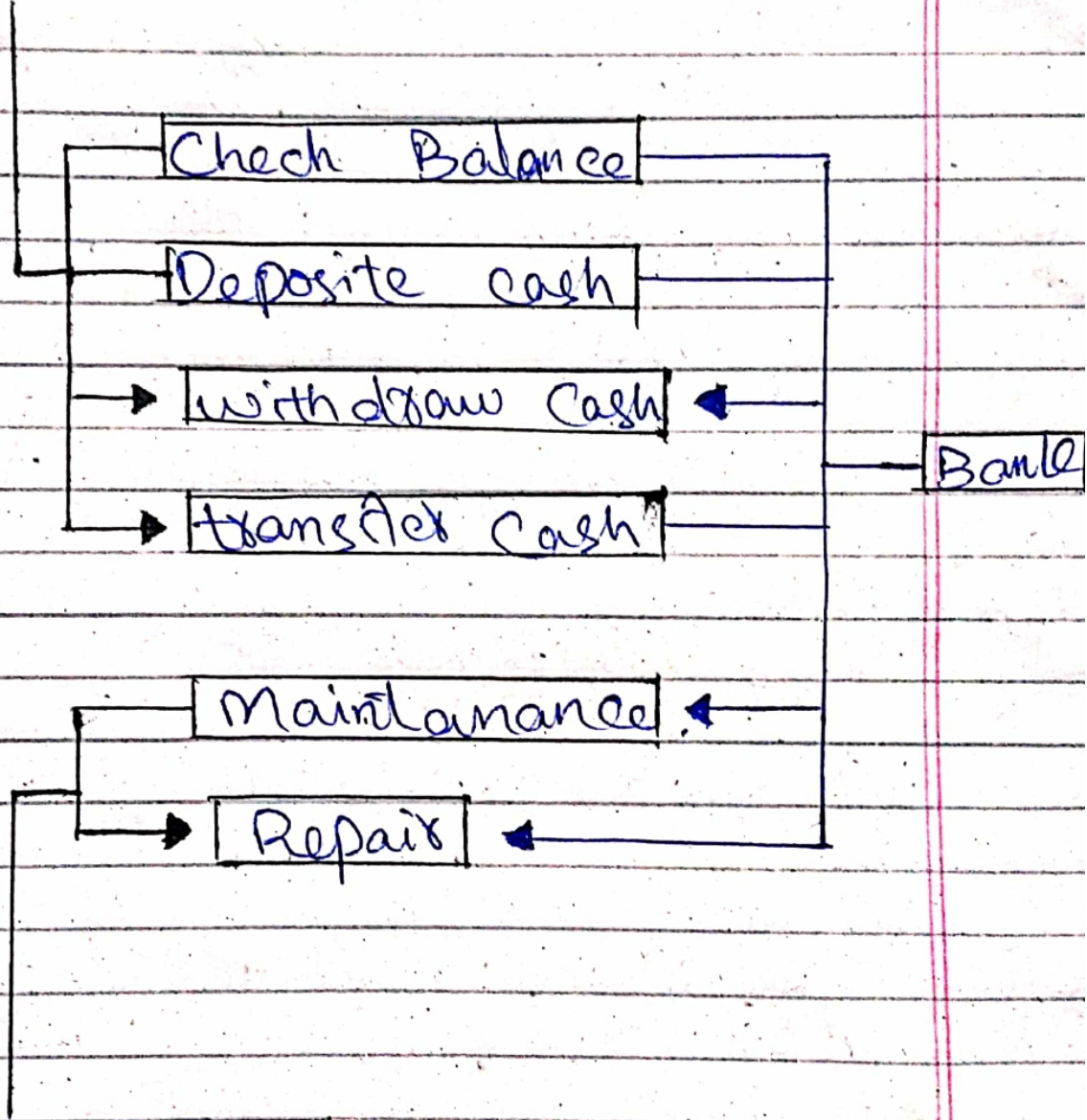
Using your knowledge of how an ATM is used, develop a set of use case that could serve as a basis for understanding the requirements for an ATM system.

:Ans:

- \* The user inserts cards into the reader. The ATM asks for Pin, user enters Pin correctly.
- \* The ATM displays user's bank information and user withdraws money. The 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.



Customers



Administrators