American International University-Bangladesh (AIUB)

Course Title: Object Oriented Analysis And Design (OOAD)

Assignment Title: **Ice Cream Parlour Management System**

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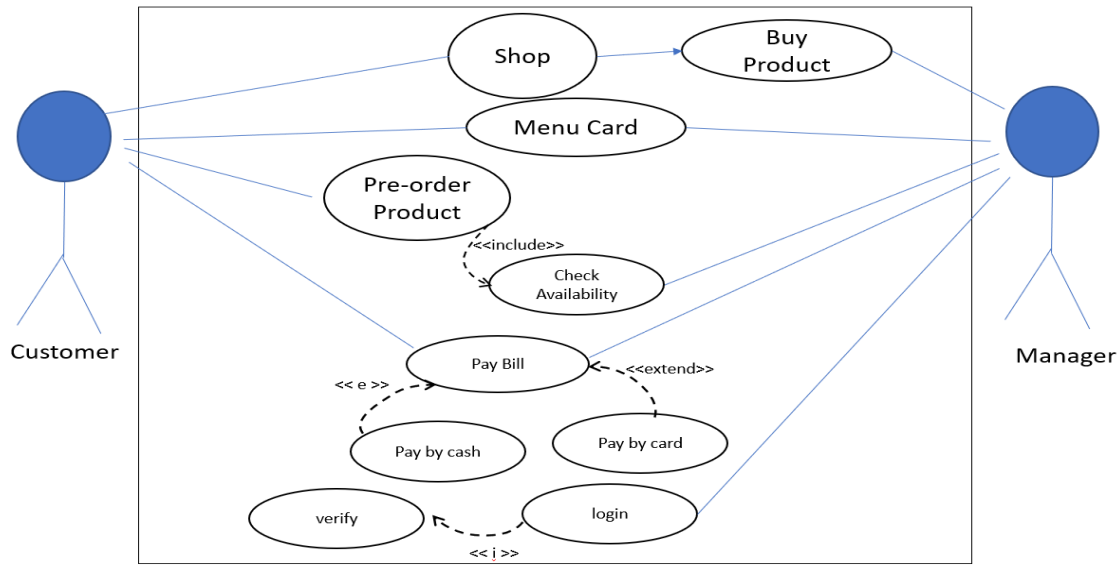
Attached(with Description):

(1) Use Case Diagram.
(2) Class Diagram.
(3) Sequence Diagram.
(4) Activity Diagram.
(5) State chart Diagram.

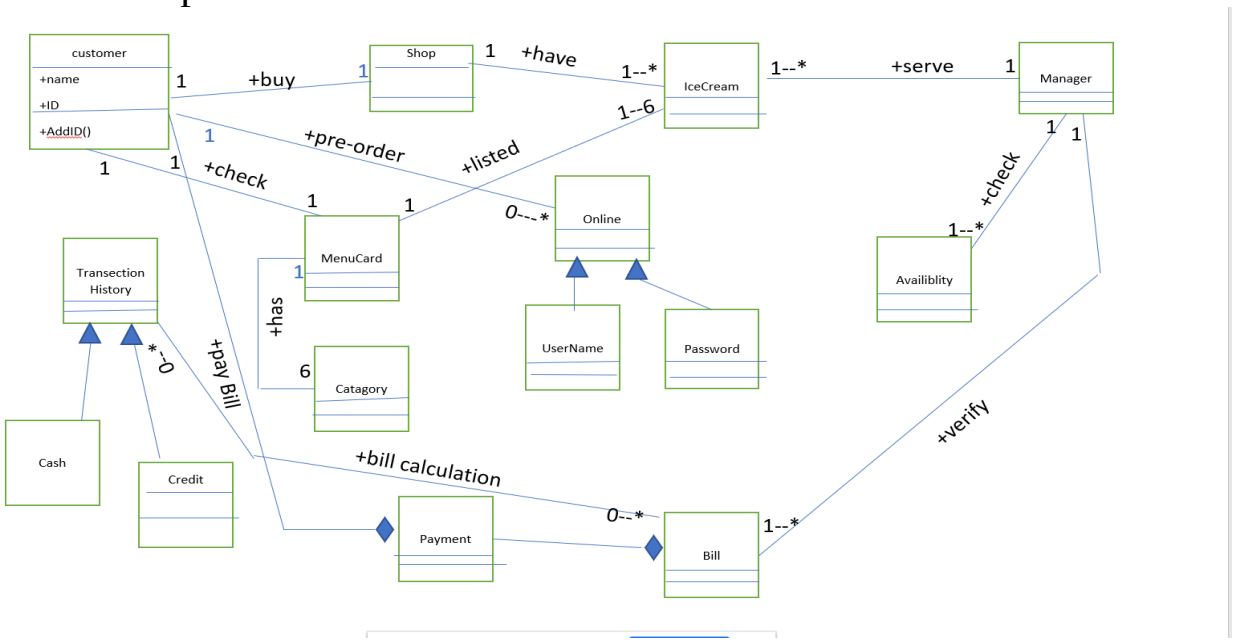
Use Case Diagram.

In a Ice cream Parlor a Customer can buy Ice Cream.They check the menu card among the catagories.The manager uses the system taking orders.A customer can pre-order Ice Cream on online with the help of manager.But the manager has to check if the Ice Cream are available or not.The customer can pay for his/her bill by cash or card.Manager has to logon to the system before they can use it.



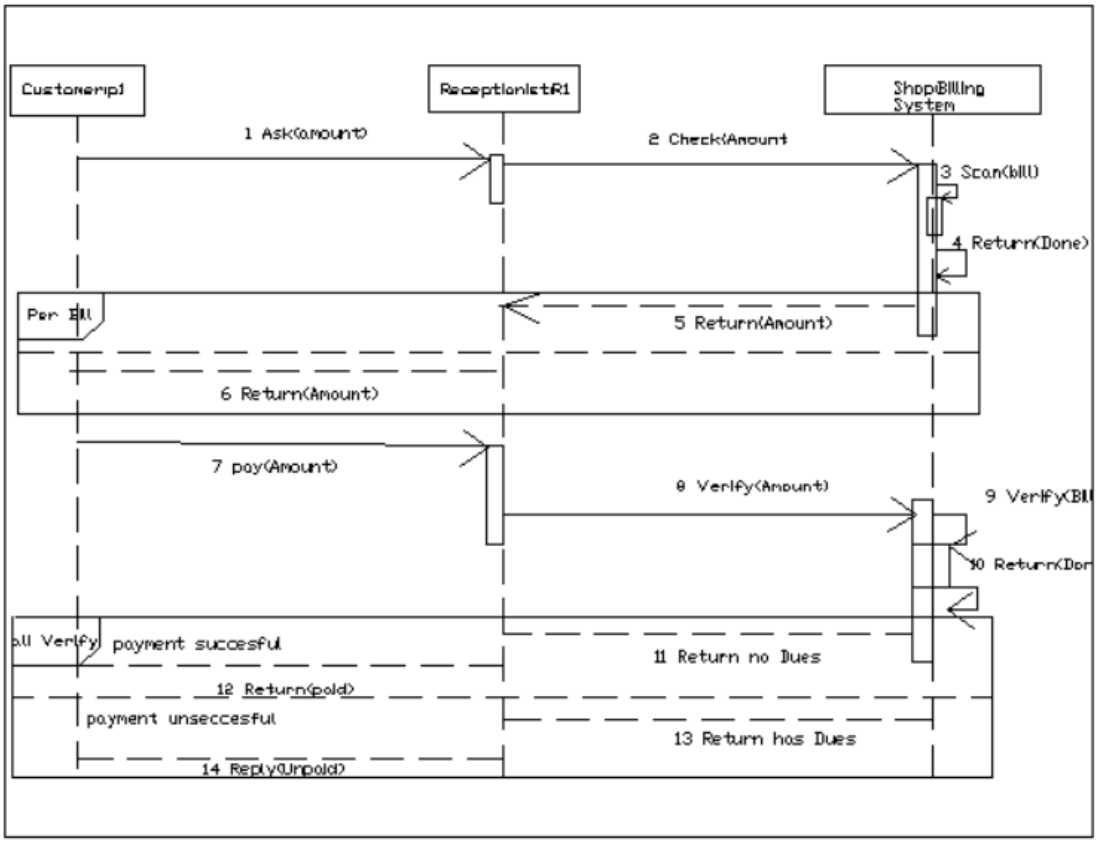
Class Diagram.

Customer can buy Ice Cream.They check the menu card among the catagories.The manager uses the system taking orders.A customer can pre-order Ice Cream on online with the help of manager.But the manager has to check if the Ice Cream are available or not.The customer can pay for his/her bill by cash or card.Manager has to logon to the system before they can use it but to log on the system he has go Through username / password verification.



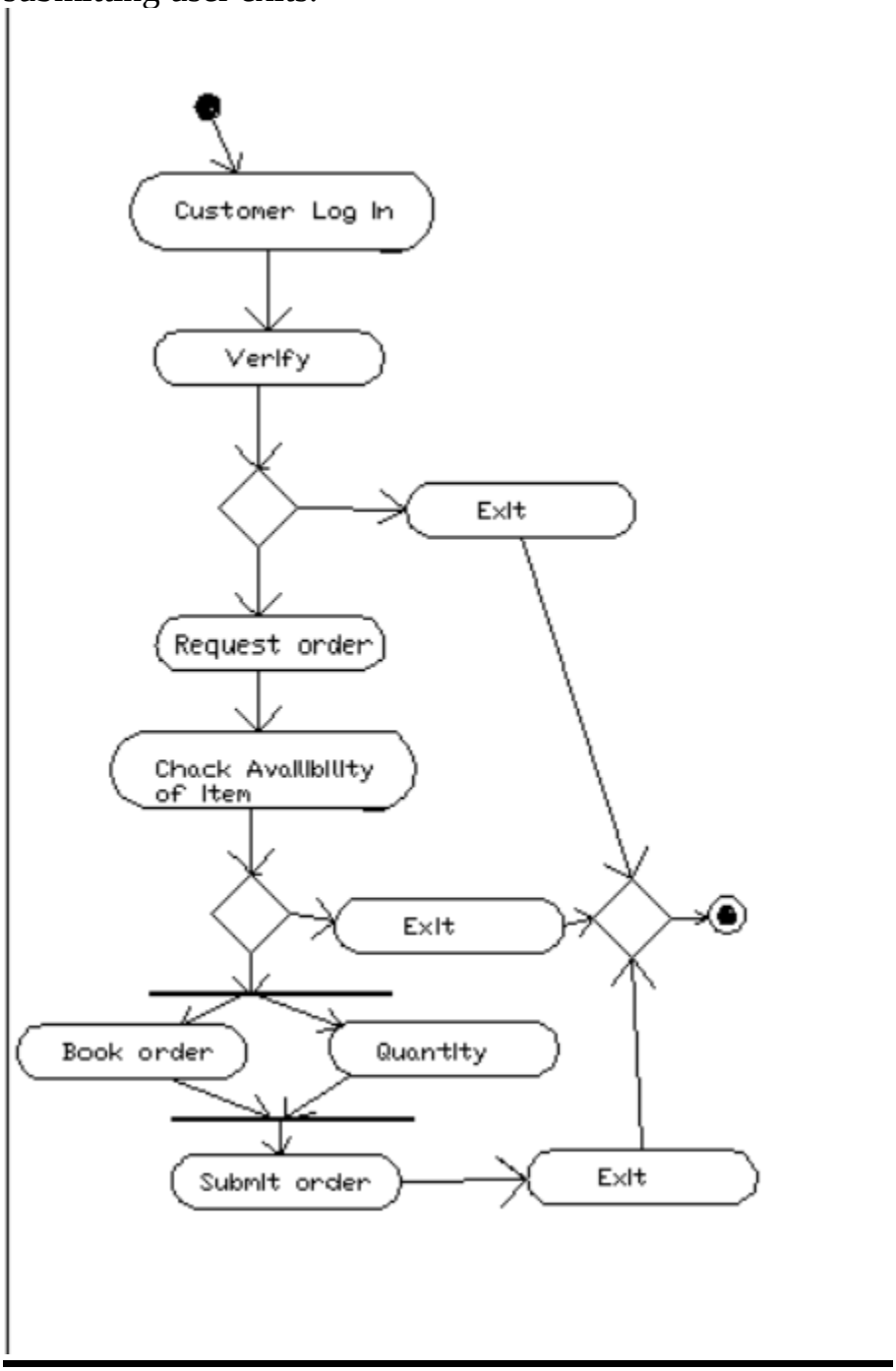
Sequence Diagram.

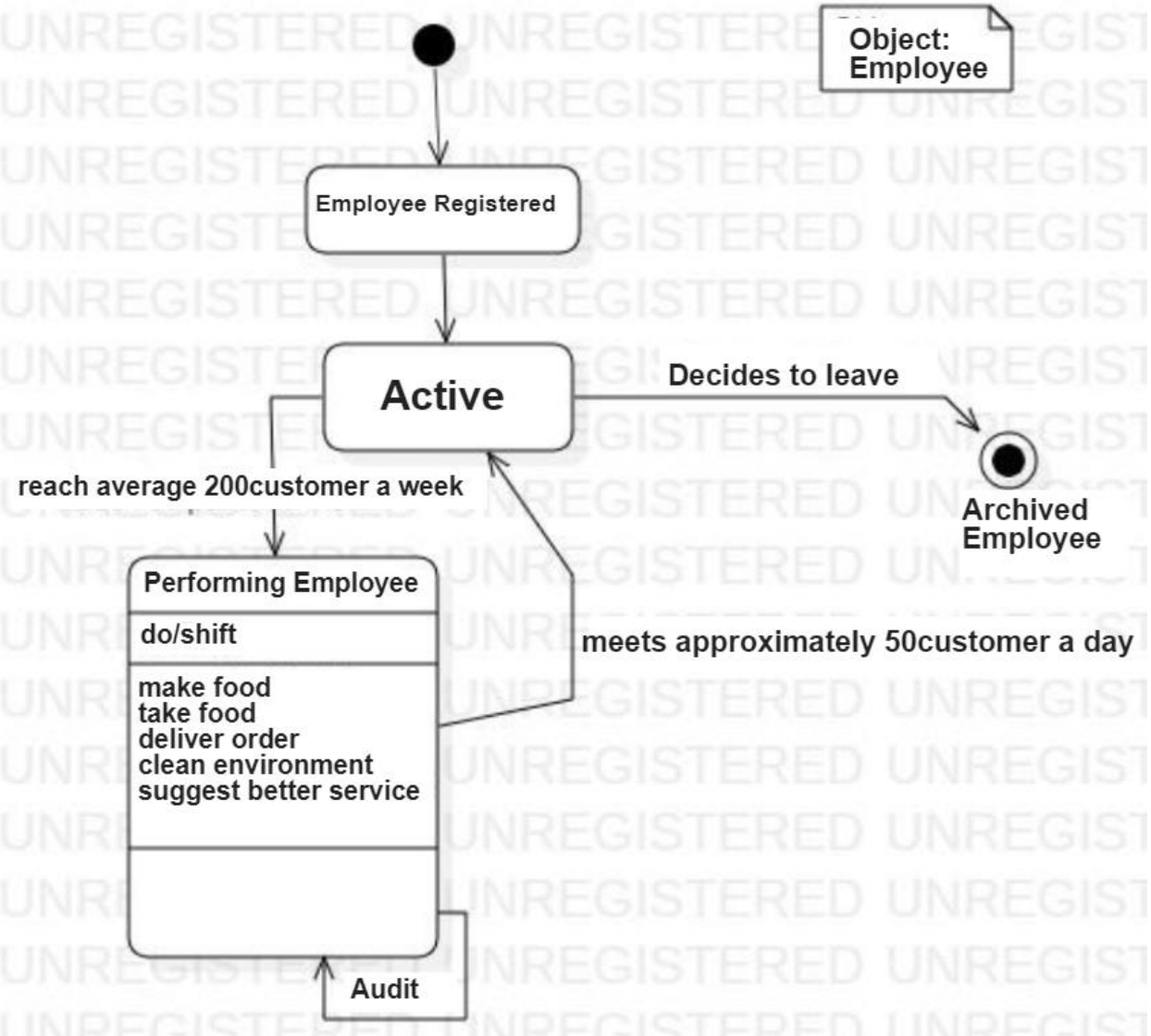
An automated bill calculator system will generate the bill based on a customer food order and verify patient payment.
The customer ask the recetionist for amount.He checks amountin the system. Within the system the is bill is scanned and returned. After the bills are scanned,the amount is returned to the receptionist and he inform the customer at the same time.
Customer pays to the Receptionist and receptionist verify to the system its valid or not.If the system find payment due then the customer's payment is unsuccessful .If return is successful the payment is is successful.



Activity Diagram

In an online Ice Cream order a customer books ice cream using an interface . After the customer log in for online delivery.The sytem verify the user account.User exits if he/she doesn't have a account.If verification is successful then user get to request order and check the availability of Ice Cream.If unavailable the user exits.If available the user can book how many ice cream he/she wants.After submitting user exits.



State chart Diagram.

In order servicing/delivery system all employees are initially set up as registered employees. Daily working employees are considered as active.They daily do different services to approximately 50customer.If a employee decides to leave the he/she is placed into archived.If Employees reach average 200customer a week then they are in best performance. Employees audit among themselves.