

SE

2CS504

Practical 6

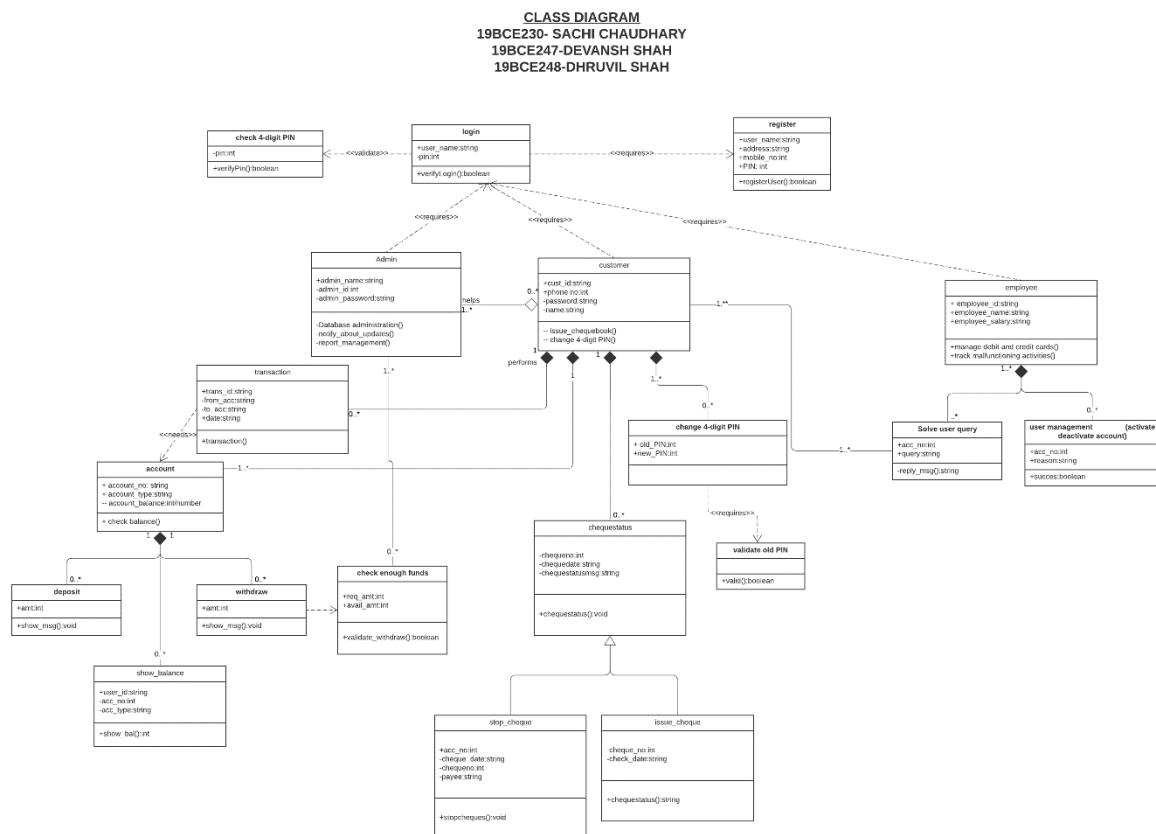
19BCE230-SACHI CHAUDHARY

19BCE247-DEVANSH SHAH

19BCE248-DHRUVIL SHAH

AIM: Design Class Diagram & CRC index cards for your System.

Class Diagram:



For Better Visualization visit below link:

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CRC INDEX CARDS:

Class name: Admin	
Responsibilities:	Collaborators:

Has unique ID, password for login	Login.
Handles database administration.	
Notifies about latest updates.	Employee, customer.
Generates reports /stats of the bank.	
Checks for enough fund in bank account of customer while withdrawing and notifies if it is exceeding limits.	Customer.
Provide name for registration.	Register.

Class name: Customer	
Responsibilities:	Collaborators:
Has unique customer ID and password for login.	Login.
Provides customer name and phone no. for registration.	Register.
Has a bank account.	Account.
Can perform different transactions. (deposit/withdraw money)	Transaction.
Can issue a new cheque book.	
Can change 4-digit PIN.	
Can check the account balance.	
Ask for any queries.	Solve user query.
Apply for a loan.	Employee.
Gets reminder about different bank updates and interest due for loan (if applicable).	Admin.

Class name: Employee	
Responsibilities:	Collaborators:
Has unique ID and password for login.	Login
Provides name, salary, etc for registration.	Register.
Manages credit and debit card transactions of the customer.	
Track malfunctioning activities.	
Manages account of user(activate/deactivate).	
Solve user queries.	Customer.
Handles loan application of customer.	

Class name: Login	
Responsibilities:	Collaborators:
Inputs username and PIN for login.	Admin, customer, employee.
Checks for valid 4 digit- PIN	Check PIN.
Checks that username is already registered.	Register.

Class name: Register	
Responsibilities:	Collaborators:
Inputs username and PIN for login.	Admin, customer, employee.
Checks for valid 4 digit- PIN	Check 4-digit pin

Class name: Check 4-digit pin	
Responsibilities:	Collaborators:
Checks for valid 4 digit- PIN	Login, Register

Class name: Account	
Responsibilities:	Collaborators:
Keep track of each user activities	Customer
All Transaction history are recorded	Transaction
Give various ways of performing transaction	Deposit, Withdraw, Show Balance

Class name: Deposit	
Responsibilities:	Collaborators:
Deposit amount	Account

Class name: Withdraw	
Responsibilities:	Collaborators:
Helps to withdraw money	Account
After each withdrawal notifies user	
Checks for sufficient amount	CheckEnoughFunds

Class name: CheckEnoughFunds	
Responsibilities:	Collaborators:
Helps when user need to withdraw money	
Returns whether transaction can be performed or not	Admin

Class name: ChequeStatus	
Responsibilities:	Collaborators:
Has Cheque no	
Has Cheque date	
Issuing Cheque	IssueCheque
Stop Cheque transaction in case of any query	StopCheque
Notifies about Status	

Class name: StopCheque	
Responsibilities:	Collaborators:
Tracking of misleading	ChequeStatus
Has Cheque date, Cheque No	
Restricted to Only Employees	Employee
Informing before doing any action to customer	

Class name: IssueCheque	
Responsibilities:	Collaborators:

Issuing Cheque	ChequeStatus
Has Cheque date, Cheque No	
Informing after cheque issued	

Class name: SolveUserQuery	
Responsibilities:	Collaborators:
Directly in Contact with Customer	
Should be private between two parties	Customer, Employee
Respond as soon as possible	

Class name: ActivateDeactivateAccount	
Responsibilities:	Collaborators:
Removing All entries within on book as well as from hosted database	Admin, Employee
Must Know the reason for the same from customer	
Convincing the Customer not to deactivate unless it is serious matter of concern	