BBD PROJECT 01

Bank Management System

Abstract
Develop a Bank Management system with the basic banking operations

Big Bang Data Point

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Interfeces:

AdminDetailsInterface   CustomerDetailsInterface

createAccount method.   Create a Withdraw money method.
deleteAccount method.   Create a Deposit money method.
                                                         create transaction statement method.

Concrete classes

AdminDetails, CustomerDetails

Model Classes: (for each table)

1)   UserAccountDetail

2)   BankDetails

3)   LoginDetail

Main class

BankManagementSystem.java

Utility class: get connect, file read/write, validation operations

User account detail				
User id	Name	Acct no	Accout bal	bankid
Auto generate	User input	Auto generate	user input	foreign key
Starting from 1001		starting from 52444		
int	Varchar	int	double	int

Bank details			
Bank Id	Bank Name	location	ifsc code
Auto generated starting from 1001	SBI	Purnea	auto generate starting from 1221
int	varchar	varchar	varchar

login details			
Cust Name	user id	Cust pass	Role
coming from user table	foreign key	auto generate 12345	Admin/user
varchar	int	int	varchar

- Create two interfaces.
  - o **AdminDetail interface**
  - o **CustomerDetail interface**
- In **admin detail interface** create two method first is **create an account method** and second one is **deleting an account method.**
- In customer detail interface create three method first one is creating a withdraw money method second one is creating a deposit money method and last one is create a transaction statement method.

- Now we need to create three classes where we need to create three different table respectively. All the table detailed is mentioned above

UserAccountDetail class

BankDetails class

LoginDetail class

- In user **UserAccountDetail** class, you need to have attributes of user account table as the sample given above and getter setters.
- In **BankDetails** class, you need to have attributes of bank details table as the sample mentioned above and getter setters.
- In **LoginDetail** class, you need to have attributes Login details table as the sample mentioned above and getter setters.

Main class

Ask the user to login: Please login and ask to enter the username and password: username and password.

Our First validation should be to check if it is user or admin.

If it is admin then ask from the user following things

- Create account.
  - Take input from user and insert all three tables.
- Delete account.
  - Take input account to be deleted.
- Generate Statement
  - Take input account and generate file having all the details of the account and user

And if it is user then following steps

- Deposit money
  - Take input amount and validate if its double/int and then update the user's balance
- Withdraw money.
  - Take input amount and validate if its double/int and then update the user's balance
  - The withdrawal amount should be less or equal to balance amount, if tries to withdraw more than balance validate it and give proper message to the user (Create User define Exception to handle this)

Utility class:

- getConnection
- readFile
- generateFile
- validateUseName
- validateAmount