1. **Requirements**

- A simple banking application with a graphical user interface (GUI) developed in Java using the Swing framework, designed to interact with a MySQL database. This application enables users to perform essential banking operations such as account management, transactions, and balance inquiries efficiently.

- Features

Account Login: Users can log in to their accounts using their credentials.

Account Registration: New users can create a bank account by registering.

Deposit Funds: Users can add money to their accounts.

Withdraw Funds: Users can withdraw money from their accounts.

Check Balance: View the current balance in the account.

Logout: Securely log out from the account.

Transaction History: Users can review a list of past transactions.

Transfer Funds: Transfer money to other registered users within the MySQL database.

1. **Properties**

- Xác định các thực thể

**User**: Represents the account holders who can log in, register, and perform banking operations.

**Account**: Associated with users to manage deposits, withdrawals, and balance checks.

**Transaction**: Logs the user's past transactions, including deposits, withdrawals, and transfers.

**Transfer**: Facilitates fund transfers between users within the system.

- Relationships

**User-Account**: Each user is associated with one or more bank accounts. A user manages their account for deposits, withdrawals, and balance checks.

**Account-Transaction**: Every account can have multiple transactions, which are logged as records of deposits, withdrawals, and transfers.

**User-Transfer**: Users can transfer funds between accounts, linking users via the transfer process within the system.