# **Banking System**

## **Objective:**

Develop a Banking System that manages accounts, customers, and transactions using ADO.NET for database interactions and custom exceptions to handle specific error scenarios.

## **Requirements:**

### **Database Setup:**

* Create a database named **BankDB**.
* Create tables **Accounts**, **Customers**, and **Transactions** with appropriate columns.

### **Dotnet Applications:**

* Implement an abstract class **Account** with properties like **AccountId**, **AccountNumber**, **balance**, and abstract methods like **GetAccountDetails()**.
* Create subclasses **SavingsAccount** and **CurrentAccount** extending Account with specific attributes.
* Implement an interface **ITransactionManagement** with methods like **Deposit()**, **Withdraw(),** and **TransferFunds().**
* Implement a **CustomerDAO** class for database operations using ADO.NET, including methods like **AddCustomer(), GetCustomerById()**, and **UpdateCustomer().**
* Implement an **AccountDAO** class for database operations using ADO.NET, including methods like **AddAccount(), GetAccountById(),** and **UpdateAccount().**
* Implement custom exceptions **AccountNotFoundException**, **CustomerNotFoundException,** **InsufficientFundsException**, and **DatabaseConnectionException**.

### **Scenarios:**

* Adding a new customer or account.
* Retrieving a customer or account by ID.
* Updating customer or account details.
* Depositing or withdrawing funds.
* Transferring funds between accounts.