Architecture

ATM Interface Console-Based Application

Architecture

The ATM Interface Console Application is designed using the Model-View-Controller (MVC) architecture. The application consists of five main components:

1. AccountHolder: This component represents the user account holder, with an ID and a PIN.
2. Account: This component represents a bank account, with a number and a balance, and operations to deposit, withdraw, transfer and show transactions.
3. BankTransaction: This component represents a transaction in a bank account, with a type (deposit or withdrawal), an amount, and a date/time stamp.
4. Bank: This component represents a bank, with a name and a list of accounts, and operations to add accounts and find accounts by number.
5. ATM: This component represents an ATM, with an account holder and a bank, and operations to authenticate the user, show transactions, withdraw, deposit, transfer, and quit.