QObject Client m_AccountNumber: QString m_Balance: QString m_request: QString m_role: QString m_ServerRespond: QVariant # m_UserName: QString Client(QObject*) GetAccNo(): void Login(): bool SendRequestToServer(): void start(): void ViewAccountBalance(): void ViewTransactionHistory(): void

Admin

- cin: QTextStreamcout: QTextStreamsocket: QTcpSocket
- + Admin()
- + connected(): void
- + connectToHost(QString, quint16): void
- + CreateNewUser(): void
- + DeleteUser(): void
- + disconnect(): void
- + disconnected(): void
- + error(QAbstractSocket::SocketError): void
- + GetAccNo(): void
- + Login(): bool
- + readyRead(): void
- + SearchUserName(QString, QString): void
- + SendRequestToServer(): void
- + start(): void
- + stateChanged(QAbstractSocket::SocketState): void
- + UpdateUser(): void
- + ViewAccountBalance(): void
- + ViewBankDatabase(): void
 - ViewTransactionHistory(): void

Server

- server: QTcpServer
- + disconnected(): void
- + Handlerequest(QString, QString): void
- + newConnection(): void
- + quit(): void
- + readyRead(): void
- + Server(QObject*)
- + start(): void

User

- cin: QTextStream
- cout: QTextStream
- socket: QTcpSocket
- connected(): void
- + connectToHost(QString, quint16): void
- + disconnect(): void
- + disconnected(): void
- + error(QAbstractSocket::SocketError): void
- + GetAccNo(): void
- + Login(): bool
- MakeTransaction(): void
- + readyRead(): void
- SendRequestToServer(): void
- + start(): void
- + stateChanged(QAbstractSocket::SocketState): void
- + TransferAmount(): void
- + User()
- + ViewAccountBalance(): void
- + ViewTransactionHistory(): void

JsonHandler

- <u>mutex: QMutex</u>
- + AccountNumberGenerator(QString&): QString
- + CheckLogin(QString&, QString&, QString&): bool
- + CheckUserFound(QString&, QString&): bool
- + CreateNewUser(QString&, QString&, QVariantMap&): bool
- + DeleteUser(QString&, QString&): bool
- + GetField(QString&, QString&, QString&, QString&): bool
- + GetTransactionHistory(QString&, QString&, QString, QString&): bool
- + JsonHandler()
- + PrintDataBase(QString&, QString&): bool
- + SetField(QString&, QString&, QString&, QString&): bool
- + SetTransactionHistory(QString&, QString&, QString&): bool