**ISelect** — Class

Methods:
- ~ISelect
- addReadFd
- addWriteFd
- getReadyRead
- getReadyWrite
- getRemainingTi...
- removeReadFd
- removeWriteFd
- setTimeout
- start

**LinuxSelect** — Class → ISelect  (public)

**WindowsSelect** — Class → ISelect  (public)

**mySelect** — Class → WindowsSelect  (public)

Methods:
- ~mySelect
- mySelect

---

**ITCPSocket** — Class

Methods:
- ~ITCPSocket
- acceptClient
- bindSock
- closeSock
- connectTo
- getFd
- init
- listenSock
- receive
- sendData

**LinuxTCPSocket** — Class → ITCPSocket  (public)

**WindowsTCPSo...** — Class → ITCPSocket  (public)

**myTCPSocket** — Class → WindowsTCPSocket  (public)

Methods:
- ~myTCPSocket
- myTCPSocket

## eFriendStatus
Enum «

Offline
Online
FriendRequestPending

## eFriendRequestType
Enum «

Removal
Addition

## eErrorCode
Enum «

Success
InvalidUsername
InvalidPassword
UnavailableUsername
UnknownUser
UserAlreadyConnected
AlreadyFriend
FriendsMaxedOut
UserOffline
RequestPending
AuthentificationTimeOut
UnknownCommand
InvalidCredentials

## eCommandId
Enum «

RequestAuth
SignUp
SignIn
SendFriendsList
FriendStatusUpdate
FriendRequest
FriendValidation
AddToCall
AnswerCall
CallDropped
Host
HostReady
ConnectToPeer
OK
KO
Welcome
ParticipantStatusUpdate
UDPReady
SendText

**Serializer**
Class

- Methods
  - ◈ ~Serializer
  - ◈ deserialize<T>
  - ◈ serialize<T>
  - ◈ⓔ Serializer

**ActualSerializer<std::string>**
Struct

- Methods
  - ◈ Deserialize
  - ◈ Serialize

**ActualSerializer<T>**
Template Struct

- Methods
  - ◈ Deserialize
  - ◈ Serialize

**ActualSerializer<std::pair<U, V>>**
Template Struct

- Methods
  - ◈ Deserialize
  - ◈ Serialize

**ActualSerializer<std::list<T>>**
Template Struct

- Methods
  - ◈ Deserialize
  - ◈ Serialize

## StandardInput
Class
→ IObservable

**Fields**
- _fd

**Methods**
- ~StandardInput
- StandardInput

## LinuxTCPServer
Class
→ ITCPServer

**Fields**
- _sock

**Methods**
- ~LinuxTCPServer
- LinuxTCPServer

## ITCPServer
Class
→ IObservable

**Methods**
- ~ITCPServer
- acceptClient
- start
- stop

## myTCPServer
Class
→ WindowsTCPServer

**Methods**
- ~myTCPServer
- myTCPServer

## WindowsTCPServer
Class
→ ITCPServer

**Fields**
- _sock

**Methods**
- ~WindowsTCPServer
- WindowsTCPServer

## IObservable
Class

**Methods**
- ~IObservable
- getReadFd

## WindowsTCPRemoteClient
Class
→ ITCPRemoteClient

**Fields**
- _ip
- _sock
- _toSend
- _toSendLen

**Methods**
- ~WindowsTCPRemoteClient
- WindowsTCPRemoteClient

## IReadable
Class
→ IObservable

**Methods**
- ~IReadable
- receiveMsg

## ITCPRemoteClient
Class
→ IWritable
→ IReadable

**Methods**
- ~ITCPRemoteCl...
- getIp
- mustBeClosed
- prepareClose

## myTCPRemoteClient
Class
→ WindowsTCPRemoteClient

**Methods**
- ~myTCPRemoteClient
- myTCPRemoteClient

## IWritable
Class

**Fields**
- BUFF_SIZE

**Methods**
- ~IWritable
- getWriteFd
- prepareMsg
- send
- somethingToWrite

## LinuxTCPRemoteClient
Class
→ ITCPRemoteClient

**Fields**
- _ip
- _sock
- _toSend
- _toSendLen

**Methods**
- ~LinuxTCPRemoteClient
- LinuxTCPRemoteClient

_Relationship labels:_ public

## UserData
Class

### Fields
- _friendList
- _friendListRequest
- _name
- _online
- _password

### Methods
- ~UserData
- addFriend
- addFriendRequest
- getListFriend
- getListFriendRequest
- getName
- getOnlineStatus
- getPassword
- hasRequest
- isFriend
- removeFriend
- removeFriendRequest
- serialize
- setListFriend
- setListFriendRequest
- setName
- setOnlineStatus
- setPassword
- UserData (+ 2 overloads)

## Database
Class

### Fields
- _users

### Methods
- ~Database
- addFriendRequest
- addUser
- checkCredentials
- clear
- Database
- deserialize
- getIterator
- getUser
- getUsers
- hasUser
- refuseFriendRequest
- removeFriend
- removeUser
- serialize
- setUsers
- validateFriendRequest

## BabelServer
Class

### Fields
- _database
- _lastTimeout
- _port
- _running
- _select
- _server
- _strangers
- _strangersToKick
- _users
- _usersToKick

### Methods
- ~BabelServer
- BabelServer
- start

**TCPPacketHeader**
Struct

- Fields
  - commandId
  - magicA
  - magicB
  - magicC
  - payloadSize

**PacketHelper**
Class

- Methods
  - ~PacketHelper
  - getUnreadSize
  - PacketHelper
  - readTcpHeader
  - readUdpHeader
  - writeTcpHeader
  - writeTcpHeaderSize
  - writeUdpHeader

**RequestMaker**
Class

- Methods
  - ~RequestMaker
  - AddToCallRequest
  - CallDroppedRequest
  - ConnectToPeerRequest
  - FriendsRequest
  - FriendStatusUpdateRequest
  - HostRequest
  - KORequest
  - OKRequest
  - RequestMaker
  - SendFriendList

**FileSerializer**
Class

- Fields
  - _filename
- Methods
  - ~FileSerializer
  - chooseFile
  - FileSerializer
  - readFromFile
  - writeToFile

**Debug**
Class

- Fields
  - _debugEnabled
- Methods
  - enableDebug
  - Log
  - LogCommandId
  - LogError
  - LogErrorCode