palo-chat

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Chapter 5

Namespace Documentation

5.1 Package ComplexWpfChatClientExample

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- package Interfaces
- package Models
- package ViewModels
- package Views

Classes

- class App

  Interaction logic for App.xaml

5.2 Package ComplexWpfChatClientExample.Core

Classes

- class **AppSettingsReader**

  Pomocna trida pro praci s AppSettings.
- class BaseViewModel
- class **ExtensionMethods**

  Staticka trida, ktera rozsiruje tridy o nove metody.
- class PropertyChangedBase

  Zakladni trida, ktera usnadnuje praci s vyvolanim zmeny.
- class RelayCommand

5.3 Package ComplexWpfChatClientExample.Interfaces

Classes

- interface ILoginView
- interface ILoginViewModel
- interface IShellView
- interface IShellViewModel

5.4 Package ComplexWpfChatClientExample.Models

Classes

- class ChatMessageModel
- class LoginModel

5.5 Package ComplexWpfChatClientExample.ViewModels

Classes

- class LoginViewModel
- class ShellViewModel

  ViewModel chatovaciho klienta. Zajisteni komunikace s uzivateli, pripojeni na server aj.

5.6 Package ComplexWpfChatClientExample.Views

Classes

- class LoginView

  Interaction logic for LoginView.xaml
- class ShellView

  Interaction logic for ShellView.xaml

5.7 Package ComplexWpfChatServerExample

Classes

- class **AppSettingsReader**

  Pomocna trida pro praci s AppSettings.
- class **EnumerableExtension**

  Rozsireni pro vyctovy typ.
- class Program

  Vstupni bod aplikace chat server.
- class Server

  Trida, ktera je zodpovedna za chovani komplexniho serveru. Dle typu zpravy preposila dal, ci vraci spravna data.

5.8 Package Palo

Packages

- package ChatLibrary

5.9 Package Palo.ChatLibrary

Packages

- package Arguments
- package Converters
- package ReadingLoop
- package Shared
- package UserManagements

Classes

- class ChatSocket

  Predek vsech chat klient/serveru. Implementuje vsechny spolecne prvky jako odesilani zpravy, prijimani zprav ve vlakne na pozadi.
- class SimpleChatClient

  Trida reprezentujici jednoduchy chatovaci klient.
- class SimpleChatServer

  Trida reprezentujici jednoduchy chatovaci server.

5.10 Package Palo.ChatLibrary.Arguments

Classes

- class SimpleMessageArgs

  Argument s textovou zpravou.
- class SocketArgs

  Trida, reprezentujici argument uchovavajici socket.
- class SocketExceptionArgs

  Trida, reprezentujici argument uchovavajici vyjimku a socket, na kterym se problem vyskytl.

Functions

- delegate void SimpleMessageHander (object sender, SimpleMessageArgs e)

  Predpis pro akci vracejici textovou zpravu v argumentu.
- delegate void SocketHandler (object sender, SocketArgs e)

  Predpis funkce vracejici socket v argumentu.
- delegate void SocketExceptionHandler (object sender, SocketExceptionArgs e)

  Predpis funkce vracejici vyjimku objevenou na socketu v argumentu.

5.10.1 Function Documentation

5.10.1.1 delegate void Palo.ChatLibrary.Arguments.SimpleMessageHander (object *sender,* SimpleMessageArgs *e*)

Predpis pro akci vracejici textovou zpravu v argumentu.

Parameters

sender	odesilatel
e	argument

5.10.1.2 delegate void Palo.ChatLibrary.Arguments.SocketExceptionHandler (object *sender,* SocketExceptionArgs *e*)

Predpis funkce vracejici vyjimku objevenou na socketu v argumentu.

Parameters

sender	odesilatel
e	argument

5.10.1.3 delegate void Palo.ChatLibrary.Arguments.SocketHandler (object *sender,* SocketArgs *e*)

Predpis funkce vracejici socket v argumentu.

Parameters

sender	odesilatel
e	argument

5.11 Package Palo.ChatLibrary.Converters

Classes

- class ByteToStringConverter

  Prevadec pole bytu na textovy retezec a zpet.
- interface IByteToStringConverter

5.12 Package Palo.ChatLibrary.ReadingLoop

Classes

- interface IReadingLoop

  Rozhrani vlakna, ktere vycita zpravy na socketu a odpaluje pritom udalost prijeti.
- interface IReadingLoopCreator

  Rozhrani pro factory tridu, ktera vytvori instance IReadingLoop rozhrani.
- class ReadingLoopCreator

  Trida reprezentujici tovarnu vytvarejici instance ReadingLoopThread tridy.
- class ReadingLoopThread

  Smycka, ktera opakovane prijima zpravy ze socketu a odpaluje udalost se zpravou.

5.13 Package Palo.ChatLibrary.Shared

Classes

- class ChatMessage

  Objekt, ktery reprezentuje zpravu chatu.

Enumerations

- enum ChatMessageType {
  LOGIN,
  LOGOUT,
  ALL_MSG,
  PRIV_MSG,
  USERS,
  PING }

  Vycet vsech typu posilanych zprav.
- enum ChatMessageResponse {
  OK,
  ERR }

  Vycet vsech typu odpovedi.

5.13.1 Enumeration Type Documentation

5.13.1.1 enum Palo.ChatLibrary.Shared.ChatMessageResponse

Vycet vsech typu odpovedi.

Enumerator:

OK

ERR

5.13.1.2 enum Palo.ChatLibrary.Shared.ChatMessageType

Vycet vsech typu posilanych zprav.

Enumerator:

LOGIN

LOGOUT

ALL_MSG

PRIV_MSG

USERS

PING

5.14 Package Palo.ChatLibrary.UserManagements

Classes

- class LoggedUser

Chapter 6

Class Documentation

6.1 ComplexWpfChatClientExample.App Class Reference

Interaction logic for App.xaml

Protected Member Functions

- override void OnStartup (StartupEventArgs e)

  Prepsana metoda, ktera reaguje na start aplikace. Po startu spustime hlavni okno.

6.1.1 Detailed Description

Interaction logic for App.xaml

6.1.2 Member Function Documentation

6.1.2.1 override void ComplexWpfChatClientExample.App.OnStartup (StartupEventArgs *e*) [protected]

Prepsana metoda, ktera reaguje na start aplikace. Po startu spustime hlavni okno.

Parameters

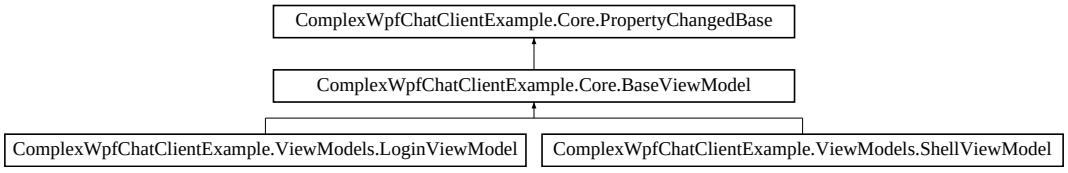
e	

The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/App.xaml.cs

6.2 ComplexWpfChatClientExample.Core.BaseViewModel Class Reference

Inheritance diagram for ComplexWpfChatClientExample.Core.BaseViewModel:



Public Member Functions

- virtual void OnReconstruct ()

  Metoda, ktera je volana po inicializaci VM.

Properties

- IShellViewModel Shell `[get, set]`

Additional Inherited Members

6.2.1 Member Function Documentation

6.2.1.1 virtual void ComplexWpfChatClientExample.Core.BaseViewModel.OnReconstruct ( ) [virtual]

Metoda, ktera je volana po inicializaci VM.

6.2.2 Property Documentation

6.2.2.1 IShellViewModel ComplexWpfChatClientExample.Core.BaseViewModel.Shell [get],[set]

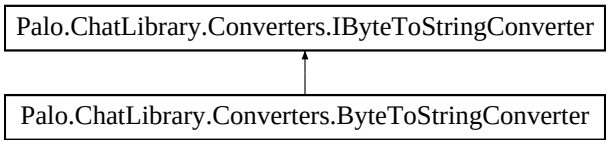
The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Core/BaseViewModel.cs

6.3 Palo.ChatLibrary.Converters.ByteToStringConverter Class Reference

Prevadec pole bytu na textovy retezec a zpet.

Inheritance diagram for Palo.ChatLibrary.Converters.ByteToStringConverter:



Public Member Functions

- string Convert (byte[] value)

  Metoda, ktera konvertuje pole bytu na textovy retezec.
- string Convert (byte[] value, int length)

  Metoda, ktera konvertuje pole bytu na textovy retezec. Pole orizne na specifickou delku.
- byte[] ConvertBack (string value)

  Metoda, ktera konvertuje textovy retezec na pole bytu.

6.3.1 Detailed Description

Prevadec pole bytu na textovy retezec a zpet.

6.3.2 Member Function Documentation

6.3.2.1 string Palo.ChatLibrary.Converters.ByteToStringConverter.Convert (byte[] *value*)

Metoda, ktera konvertuje pole bytu na textovy retezec.

Parameters

value	pole bytu

Returns

textovy retezec

Implements Palo.ChatLibrary.Converters.IByteToStringConverter.

6.3.2.2 string Palo.ChatLibrary.Converters.ByteToStringConverter.Convert (byte[] *value,* int *length*)

Metoda, ktera konvertuje pole bytu na textovy retezec. Pole orizne na specifickou delku.

Parameters

value	pole bytu
length	velikost pole

Returns

textovy retezec

Implements Palo.ChatLibrary.Converters.IByteToStringConverter.

6.3.2.3 byte [] Palo.ChatLibrary.Converters.ByteToStringConverter.ConvertBack (string *value*)

Metoda, ktera konvertuje textovy retezec na pole bytu.

Parameters

value	textovy retezec

Returns

pole bytu

Implements Palo.ChatLibrary.Converters.IByteToStringConverter.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/Converters/ByteToStringConverter.cs

6.4 Palo.ChatLibrary.Shared.ChatMessage Class Reference

Objekt, ktery reprezentuje zpravu chatu.

Public Member Functions

- ChatMessage (ChatMessageType type, string message, Guid to)

Konstruktor, ktery zapouzdruje zpravu.

Properties

- Guid ID `[get, set]`
  Unikatni identifikacni cislo zpravy.
- ChatMessageType Type `[get, set]`
  Typ zpravy.
- Guid To `[get, set]`
  Komu je zprava urcena.
- Guid From `[get, set]`
  Od koho je zprava dorucena.
- string Message `[get, set]`
  Zprava.
- DateTime TimeStamp `[get, set]`
  Casova znacka odeslani zpravy.

6.4.1 Detailed Description

Objekt, ktery reprezentuje zpravu chatu.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 Palo.ChatLibrary.Shared.ChatMessage.ChatMessage (ChatMessageType *type*, string *message*, Guid *to*)

Konstruktor, ktery zapouzdruje zpravu.

Parameters

type	typ zpravy
message	zprava
to	komu je urcena

6.4.3 Property Documentation

6.4.3.1 Guid Palo.ChatLibrary.Shared.ChatMessage.From `[get],[set]`

Od koho je zprava dorucena.

6.4.3.2 Guid Palo.ChatLibrary.Shared.ChatMessage.ID `[get],[set]`

Unikatni identifikacni cislo zpravy.

6.4.3.3 string Palo.ChatLibrary.Shared.ChatMessage.Message `[get],[set]`

Zprava.

6.4.3.4 DateTime Palo.ChatLibrary.Shared.ChatMessage.TimeStamp `[get],[set]`

Casova znacka odeslani zpravy.

6.4.3.5 Guid Palo.ChatLibrary.Shared.ChatMessage.To [get], [set]

Komu je zprava urcena.

6.4.3.6 ChatMessageType Palo.ChatLibrary.Shared.ChatMessage.Type [get], [set]

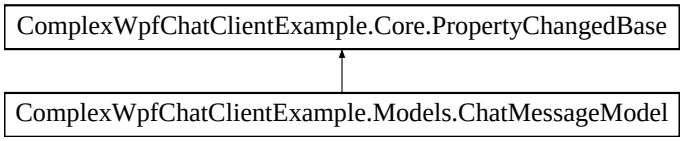
Typ zpravy.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/Messages/ChatMessage.cs

6.5 ComplexWpfChatClientExample.Models.ChatMessageModel Class Reference

Inheritance diagram for ComplexWpfChatClientExample.Models.ChatMessageModel:



Properties

- string From [get, set]

  Jmeno od koho to prislo.
- string To [get, set]

  Jmeno komu to bylo cileno.
- string Message [get, set]

  Zprava.

Additional Inherited Members

6.5.1 Property Documentation

6.5.1.1 string ComplexWpfChatClientExample.Models.ChatMessageModel.From [get], [set]

Jmeno od koho to prislo.

6.5.1.2 string ComplexWpfChatClientExample.Models.ChatMessageModel.Message [get], [set]

Zprava.

6.5.1.3 string ComplexWpfChatClientExample.Models.ChatMessageModel.To [get], [set]

Jmeno komu to bylo cileno.

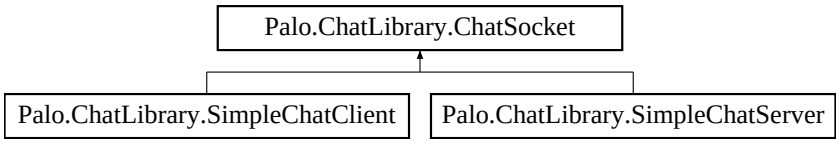
The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Models/ChatMessageModel.cs

6.6 Palo.ChatLibrary.ChatSocket Class Reference

Predek vsech chat klient/serveru. Implementuje vsechny spolecne prvky jako odesilani zpravy, prijimani zprav ve vlakne na pozadi.

Inheritance diagram for Palo.ChatLibrary.ChatSocket:



Public Member Functions

- ChatSocket (IPAddress ip, int port)

  Konstruktor inicializujici instanci serveru a uklada predane reference do lokalnich promennych. Konverter je defaultni ByteToString.
- ChatSocket (IPAddress ip, int port, IByteToStringConverter converter)

  Konstruktor inicializujici instanci serveru a uklada predane reference do lokalnich promennych.
- ChatSocket (IPAddress ip, int port, IByteToStringConverter converter, IReadingLoopCreator creator)

  Konstruktor inicializujici instanci serveru a uklada predane reference do lokalnich promennych.
- virtual void Close ()

  Metoda, ktera ukoncuje funkci serveru/klienta.

Protected Member Functions

- virtual void StartReadingOnBackground (Socket socket)

  Metoda, ktera nastartuje cteni zprav ve vlakne na pozadi. Vsechny metody budou vyvolany pomoci OnMessageReceived.
- virtual void OnReadingInterrupted (object sender, SocketExceptionArgs e)

  Metoda, ktera je vyvolana pri vyskytu chyby pri prijmu zprav.
- virtual void OnMessageReceived (object sender, SimpleMessageArgs e)

  Metoda, ktera je vyvolana po prijeti zpravy.
- virtual void Send (Socket socket, string message)

  Odesilani zprav na dany socket.

Protected Attributes

- ReadingLoopThread _readingLoop

  Vlakno, ktere vycita zpravy ze site.
- bool _closing

  True, pokud chceme ukoncit vlakno serveru/klienta.

Static Protected Attributes

- static readonly int MAX_BUFFER_LENGTH = 1024

  Konstanta s maximalni velikosti prijateho bufferu;

Properties

- IPAddress Ip `[get, set]`

  Adresa serveru.
- int Port `[get, set]`

  Port serveru.
- IByteToStringConverter Converter `[get, set]`

  Reference na konverter.
- IReadingLoopCreator ReadingLoopCreator `[get, set]`

  Reference na faktory tridu vracejici instanci cteci smycky.

Events

- SimpleMessageHander MessageReceived = delegate { }

  Udalost, ktera pripojeni na server.
- SocketExceptionHandler ReadingInterrupted = delegate { }

  Udalost, kterou odpali vyjimka pri cteni zprav.

6.6.1 Detailed Description

Predek vsech chat klient/serveru. Implementuje vsechny spolecne prvky jako odesilani zpravy, prijimani zprav ve vlakne na pozadi.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 Palo.ChatLibrary.ChatSocket.ChatSocket (IPAddress *ip*, int *port*)

Konstruktor inicializujici instanci serveru a uklada predane reference do lokalnich promennych. Konverter je defaultni ByteToString.

Parameters

ip	adresa serveru
port	port serveru

6.6.2.2 Palo.ChatLibrary.ChatSocket.ChatSocket (IPAddress *ip*, int *port*, IByteToStringConverter *converter*)

Konstruktor inicializujici instanci serveru a uklada predane reference do lokalnich promennych.

Parameters

ip	adresa serveru
port	port serveru
converter	konverter

6.6.2.3 Palo.ChatLibrary.ChatSocket.ChatSocket (IPAddress *ip*, int *port*, IByteToStringConverter *converter*, IReadingLoopCreator *creator*)

Konstruktor inicializujici instanci serveru a uklada predane reference do lokalnich promennych.

Parameters

ip	adresa serveru
port	port serveru
converter	konverter
creator	tovarni trida, vytvarejici instance cteci smycky

6.6.3 Member Function Documentation

6.6.3.1 virtual void Palo.ChatLibrary.ChatSocket.Close ( ) [virtual]

Metoda, ktera ukoncuje funkci serveru/klienta.

6.6.3.2 virtual void Palo.ChatLibrary.ChatSocket.OnMessageReceived (object *sender,* SimpleMessageArgs *e*) [protected], [virtual]

Metoda, ktera je vyvolana po prijeti zpravy.

Parameters

sender	odesilatel
e	argument

6.6.3.3 virtual void Palo.ChatLibrary.ChatSocket.OnReadingInterrupted (object *sender,* SocketExceptionArgs *e*) [protected], [virtual]

Metoda, ktera je vyvolana pri vyskytu chyby pri prijmu zprav.

Parameters

sender	odesilatel
e	argument

6.6.3.4 virtual void Palo.ChatLibrary.ChatSocket.Send (Socket *socket,* string *message*) [protected], [virtual]

Odesilani zprav na dany socket.

Parameters

socket	socket
message	zprava

6.6.3.5 virtual void Palo.ChatLibrary.ChatSocket.StartReadingOnBackground (Socket *socket*) [protected], [virtual]

Metoda, ktera nastartuje cteni zprav ve vlakne na pozadi. Vsechny metody budou vyvolany pomoci OnMessage-Received.

Parameters

socket	socket

6.6.4 Member Data Documentation

6.6.4.1 bool Palo.ChatLibrary.ChatSocket._closing [protected]

True, pokud chceme ukoncit vlakno serveru/klienta.

6.6.4.2 ReadingLoopThread Palo.ChatLibrary.ChatSocket._readingLoop [protected]

Vlakno, ktere vycita zpravy ze site.

6.6.4.3 readonly int Palo.ChatLibrary.ChatSocket.MAX_BUFFER_LENGTH = 1024 [static], [protected]

Konstanta s maximalni velikosti prijateho bufferu;

6.6.5 Property Documentation

6.6.5.1 IByteToStringConverter Palo.ChatLibrary.ChatSocket.Converter [get], [set]

Reference na konverter.

6.6.5.2 IPAddress Palo.ChatLibrary.ChatSocket.Ip [get], [set]

Adresa serveru.

6.6.5.3 int Palo.ChatLibrary.ChatSocket.Port [get], [set]

Port serveru.

6.6.5.4 IReadingLoopCreator Palo.ChatLibrary.ChatSocket.ReadingLoopCreator [get], [set]

Reference na faktory tridu vracejici instanci cteci smycky.

6.6.6 Event Documentation

6.6.6.1 SimpleMessageHander Palo.ChatLibrary.ChatSocket.MessageReceived = delegate { }

Udalost, ktera pripojeni na server.

6.6.6.2 SocketExceptionHandler Palo.ChatLibrary.ChatSocket.ReadingInterrupted = delegate { }

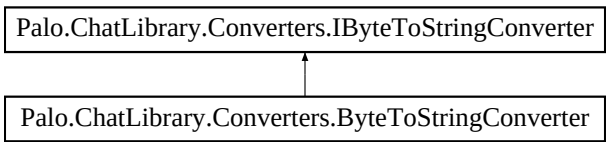
Udalost, kterou odpali vyjimka pri cteni zprav.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/ChatSocket.cs

6.7 Palo.ChatLibrary.Converters.IByteToStringConverter Interface Reference

Inheritance diagram for Palo.ChatLibrary.Converters.IByteToStringConverter:



Public Member Functions

- string Convert (byte[] value)
- string Convert (byte[] value, int length)
- byte[] ConvertBack (string value)

6.7.1 Member Function Documentation

6.7.1.1 string Palo.ChatLibrary.Converters.IByteToStringConverter.Convert (byte[] *value*)

Implemented in Palo.ChatLibrary.Converters.ByteToStringConverter.

6.7.1.2 string Palo.ChatLibrary.Converters.IByteToStringConverter.Convert (byte[] *value*, int *length*)

Implemented in Palo.ChatLibrary.Converters.ByteToStringConverter.

6.7.1.3 byte [] Palo.ChatLibrary.Converters.IByteToStringConverter.ConvertBack (string *value*)

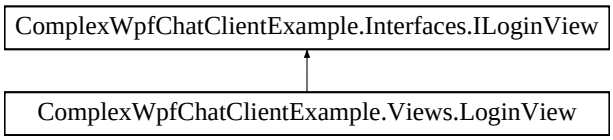
Implemented in Palo.ChatLibrary.Converters.ByteToStringConverter.

The documentation for this interface was generated from the following file:

- API/src/ChatLibrary/Converters/IByteToStringConverter.cs

6.8 ComplexWpfChatClientExample.Interfaces.ILoginView Interface Reference

Inheritance diagram for ComplexWpfChatClientExample.Interfaces.ILoginView:



Public Member Functions

- void Close ()
- bool ShowDialog ()

Properties

- LoginModel Model `[get]`

6.8.1 Member Function Documentation

6.8.1.1 void ComplexWpfChatClientExample.Interfaces.ILoginView.Close ( )

6.8.1.2 bool ComplexWpfChatClientExample.Interfaces.ILoginView.ShowDialog ( )

6.8.2 Property Documentation

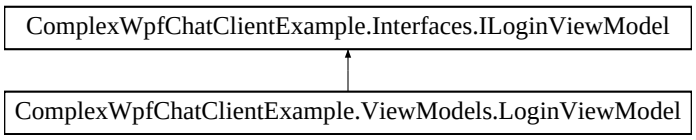
6.8.2.1 LoginModel ComplexWpfChatClientExample.Interfaces.ILoginView.Model [get]

The documentation for this interface was generated from the following file:

- API/src/ComplexChatClientExample/Interfaces/ILoginView.cs

6.9 ComplexWpfChatClientExample.Interfaces.ILoginViewModel Interface Reference

Inheritance diagram for ComplexWpfChatClientExample.Interfaces.ILoginViewModel:



Properties

- ILoginView View [get, set]
- LoginModel Model [get, set]

6.9.1 Property Documentation

6.9.1.1 LoginModel ComplexWpfChatClientExample.Interfaces.ILoginViewModel.Model [get],[set]

6.9.1.2 ILoginView ComplexWpfChatClientExample.Interfaces.ILoginViewModel.View [get],[set]

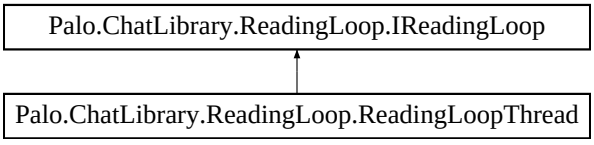
The documentation for this interface was generated from the following file:

- API/src/ComplexChatClientExample/Interfaces/ILoginViewModel.cs

6.10 Palo.ChatLibrary.ReadingLoop.IReadingLoop Interface Reference

Rozhrani vlakna, ktere vycita zpravy na socketu a odpaluje pritom udalost prijeti.

Inheritance diagram for Palo.ChatLibrary.ReadingLoop.IReadingLoop:



Public Member Functions

- void Closing ()

  Mekky ukonceni vlakna. Nejprve se dokonci smycka a az pote dojde k ukonceni.
- void Start (Socket socket)

  Metoda, ktera odstartuje cteni.

Properties

- Socket Socket [get]

  Vlastnost uchovavajici reference na socket, ze ktereho cteme zpravy.

Events

- SimpleMessageHander MessageReceived

  Udalost, ktera je vyvolana prijetim zpravy.
- SocketExceptionHandler ReadingInterrupted

  Udalost, kterou odpali vyjimka pri cteni zprav.

6.10.1 Detailed Description

Rozhrani vlakna, ktere vycita zpravy na socketu a odpaluje pritom udalost prijeti.

6.10.2 Member Function Documentation

6.10.2.1 void Palo.ChatLibrary.ReadingLoop.IReadingLoop.Closing ( )

Mekky ukonceni vlakna. Nejprve se dokonci smycka a az pote dojde k ukonceni.

Implemented in Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.

6.10.2.2 void Palo.ChatLibrary.ReadingLoop.IReadingLoop.Start (Socket *socket*)

Metoda, ktera odstartuje cteni.

Parameters

socket	socket, ze kteryho budeme cist

Implemented in Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.

6.10.3 Property Documentation

6.10.3.1 Socket Palo.ChatLibrary.ReadingLoop.IReadingLoop.Socket [get]

Vlastnost uchovavajici reference na socket, ze ktereho cteme zpravy.

6.10.4 Event Documentation

6.10.4.1 SimpleMessageHander Palo.ChatLibrary.ReadingLoop.IReadingLoop.MessageReceived

Udalost, ktera je vyvolana prijetim zpravy.

6.10.4.2 SocketExceptionHandler Palo.ChatLibrary.ReadingLoop.IReadingLoop.ReadingInterrupted

Udalost, kterou odpali vyjimka pri cteni zprav.

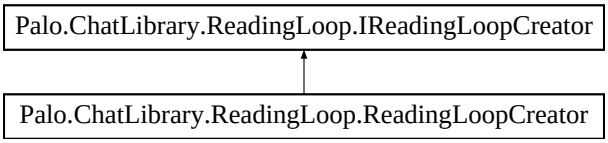
The documentation for this interface was generated from the following file:

- API/src/ChatLibrary/ReadingLoop/IReadingLoop.cs

6.11 Palo.ChatLibrary.ReadingLoop.IReadingLoopCreator Interface Reference

Rozhrani pro factory tridu, ktera vytvori instance IReadingLoop rozhrani.

Inheritance diagram for Palo.ChatLibrary.ReadingLoop.IReadingLoopCreator:



Public Member Functions

- IReadingLoop FactoryMethod ()
  Metoda vracejici instanci IReadingLoop rozhrani.

6.11.1 Detailed Description

Rozhrani pro factory tridu, ktera vytvori instance IReadingLoop rozhrani.

6.11.2 Member Function Documentation

6.11.2.1 IReadingLoop Palo.ChatLibrary.ReadingLoop.IReadingLoopCreator.FactoryMethod ( )

Metoda vracejici instanci IReadingLoop rozhrani.

Returns

instance

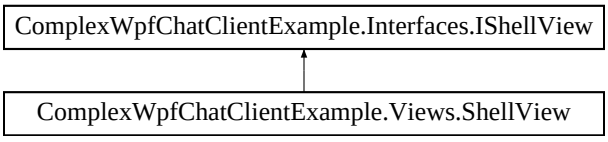
Implemented in Palo.ChatLibrary.ReadingLoop.ReadingLoopCreator.

The documentation for this interface was generated from the following file:

- API/src/ChatLibrary/ReadingLoop/IReadingLoopCreator.cs

6.12 ComplexWpfChatClientExample.Interfaces.IShellView Interface Reference

Inheritance diagram for ComplexWpfChatClientExample.Interfaces.IShellView:



Public Member Functions

- bool ShowLoginWindow (ref LoginModel model)

Properties

- IShellViewModel ViewModel `[get]`

6.12.1 Member Function Documentation

6.12.1.1 bool ComplexWpfChatClientExample.Interfaces.IShellView.ShowLoginWindow (ref LoginModel *model*)

Implemented in ComplexWpfChatClientExample.Views.ShellView.

6.12.2 Property Documentation

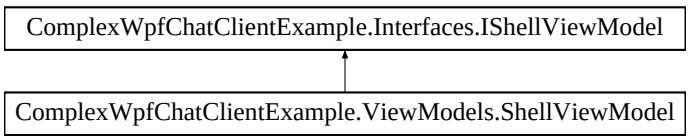
6.12.2.1 IShellViewModel ComplexWpfChatClientExample.Interfaces.IShellView.ViewModel `[get]`

The documentation for this interface was generated from the following file:

- API/src/ComplexChatClientExample/Interfaces/IShellView.cs

6.13 ComplexWpfChatClientExample.Interfaces.IShellViewModel Interface Reference

Inheritance diagram for ComplexWpfChatClientExample.Interfaces.IShellViewModel:



Properties

- IShellView View `[get, set]`

6.13.1 Property Documentation

6.13.1.1 IShellView ComplexWpfChatClientExample.Interfaces.IShellViewModel.View `[get],[set]`

The documentation for this interface was generated from the following file:

- API/src/ComplexChatClientExample/Interfaces/IShellViewModel.cs

6.14 Palo.ChatLibrary.UserManagements.LoggedUser Class Reference

Public Member Functions

- LoggedUser (string displayName, Socket sock)

Konstruktor, instancujici objekt.

- override bool Equals (object obj)

  Porovnani dvou objektu.
- override int GetHashCode ()

  Prepsany hashCode kvuli porovnani v HashSetu.

Properties

- Guid Id `[get, set]`

  Unikatni cislo uzivatele.
- string DisplayName `[get, set]`

  Nick name uzivatele.
- Socket Sock `[get, set]`

  Socket, na kterym visi.
- static LoggedUser Empty `[get]`

  Prazdny uzivatel.
- bool IsEmpty `[get]`

  Je uzivatel prazdny.

6.14.1 Constructor & Destructor Documentation

6.14.1.1 Palo.ChatLibrary.UserManagements.LoggedUser.LoggedUser (string *displayName,* Socket *sock*)

Konstruktor, instancujici objekt.

Parameters

displayName	nickname uzivatele
sock	socket, na kterym se uzivatel nachazi

6.14.2 Member Function Documentation

6.14.2.1 override bool Palo.ChatLibrary.UserManagements.LoggedUser.Equals (object *obj*)

Porovnani dvou objektu.

Parameters

obj	

Returns

true, pokud jsou stejny

6.14.2.2 override int Palo.ChatLibrary.UserManagements.LoggedUser.GetHashCode ( )

Prepsany hashCode kvuli porovnani v HashSetu.

Returns

6.14.3 Property Documentation

6.14.3.1 string Palo.ChatLibrary.UserManagements.LoggedUser.DisplayName [get], [set]

Nick name uzivatele.

6.14.3.2 LoggedUser Palo.ChatLibrary.UserManagements.LoggedUser.Empty [static], [get]

Prazdny uzivatel.

6.14.3.3 Guid Palo.ChatLibrary.UserManagements.LoggedUser.Id [get], [set]

Unikatni cislo uzivatele.

6.14.3.4 bool Palo.ChatLibrary.UserManagements.LoggedUser.IsEmpty [get]

Je uzivatel prazdny.

Returns

true

6.14.3.5 Socket Palo.ChatLibrary.UserManagements.LoggedUser.Sock [get], [set]

Socket, na kterym visi.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/UserManagements/LoggedUser.cs

6.15 ComplexWpfChatClientExample.Models.LoginModel Class Reference

Properties

- int Port [get, set]
- IPAddress ServerAddress [get, set]
- string NickName [get, set]

6.15.1 Property Documentation

6.15.1.1 string ComplexWpfChatClientExample.Models.LoginModel.NickName [get], [set]

6.15.1.2 int ComplexWpfChatClientExample.Models.LoginModel.Port [get], [set]

6.15.1.3 IPAddress ComplexWpfChatClientExample.Models.LoginModel.ServerAddress [get], [set]

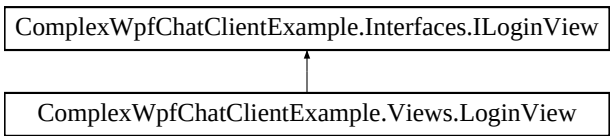
The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Models/LoginModel.cs

6.16 ComplexWpfChatClientExample.Views.LoginView Class Reference

Interaction logic for LoginView.xaml

Inheritance diagram for ComplexWpfChatClientExample.Views.LoginView:



Public Member Functions

- LoginView (Window owner, LoginModel model)

Properties

- ILoginViewModel ViewModel `[get]`
- LoginModel Model `[get, set]`

6.16.1 Detailed Description

Interaction logic for LoginView.xaml

6.16.2 Constructor & Destructor Documentation

6.16.2.1 ComplexWpfChatClientExample.Views.LoginView.LoginView (Window *owner,* LoginModel *model*)

6.16.3 Property Documentation

6.16.3.1 LoginModel ComplexWpfChatClientExample.Views.LoginView.Model `[get],[set]`

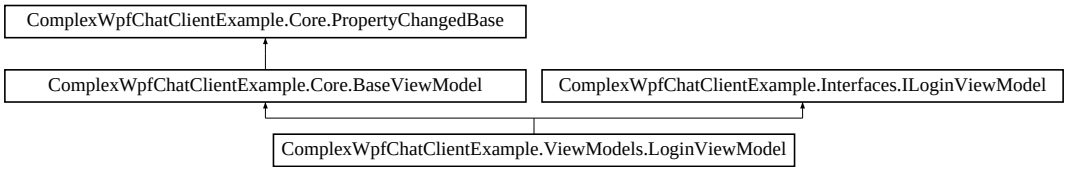
6.16.3.2 ILoginViewModel ComplexWpfChatClientExample.Views.LoginView.ViewModel `[get]`

The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Views/LoginView.xaml.cs

6.17 ComplexWpfChatClientExample.ViewModels.LoginViewModel Class Reference

Inheritance diagram for ComplexWpfChatClientExample.ViewModels.LoginViewModel:



Public Member Functions

- LoginViewModel ()

  Pokus o vytazeni dat z configu.
- void ConnectAction (object obj)

  Pripojeni na server.
- void CloseAction (object obj)

  Uzavreni okna s prihlasenim.

Properties

- int ServerPort `[get, set]`

  Port chat serveru.
- string ServerAddress `[get, set]`

  Adresa chat serveru.
- string NickName `[get, set]`

  Prezdivka.
- ILoginView View `[get, set]`
- Models.LoginModel Model `[get, set]`
- bool CanConnect `[get]`
- ICommand ConnectCommand `[get]`

  Prikaz, ktery vraci akci pripojeni na server.
- ICommand CloseCommand `[get]`

  Prikaz, ktery vraci akci, ktera odesila zpravy.

Additional Inherited Members

6.17.1 Constructor & Destructor Documentation

6.17.1.1 ComplexWpfChatClientExample.ViewModels.LoginViewModel.LoginViewModel ( )

Pokus o vytazeni dat z configu.

6.17.2 Member Function Documentation

6.17.2.1 void ComplexWpfChatClientExample.ViewModels.LoginViewModel.CloseAction (object *obj*)

Uzavreni okna s prihlasenim.

Parameters

obj	

6.17.2.2 void ComplexWpfChatClientExample.ViewModels.LoginViewModel.ConnectAction (object *obj*)

Pripojeni na server.

Parameters

obj	

6.17.3 Property Documentation

6.17.3.1 bool ComplexWpfChatClientExample.ViewModels.LoginViewModel.CanConnect [get]

6.17.3.2 ICommand ComplexWpfChatClientExample.ViewModels.LoginViewModel.CloseCommand [get]

Prikaz, ktery vraci akci, ktera odesila zpravy.

6.17.3.3 ICommand ComplexWpfChatClientExample.ViewModels.LoginViewModel.ConnectCommand [get]

Prikaz, ktery vraci akci pripojeni na server.

6.17.3.4 Models.LoginModel ComplexWpfChatClientExample.ViewModels.LoginViewModel.Model [get], [set]

6.17.3.5 string ComplexWpfChatClientExample.ViewModels.LoginViewModel.NickName [get], [set]

Prezdivka.

6.17.3.6 string ComplexWpfChatClientExample.ViewModels.LoginViewModel.ServerAddress [get], [set]

Adresa chat serveru.

6.17.3.7 int ComplexWpfChatClientExample.ViewModels.LoginViewModel.ServerPort [get], [set]

Port chat serveru.

6.17.3.8 ILoginView ComplexWpfChatClientExample.ViewModels.LoginViewModel.View [get], [set]

The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/ViewModels/LoginViewModel.cs

6.18 ComplexWpfChatServerExample.Program Class Reference

Vstupni bod aplikace chat server.

Static Public Member Functions

- static void Main (string[] args)

  Hlavni vlakno chat serveru.
- static void StartServer ()

  V novym vlakne odstartujeme server.
- static void Help ()

  Metoda, ktera zobrazuje napovedu v konzoli.

Properties

- static Server Server [get, set]

  Reference na instanci serveru.

6.18.1 Detailed Description

Vstupni bod aplikace chat server.

6.18.2 Member Function Documentation

6.18.2.1 static void ComplexWpfChatServerExample.Program.Help ( ) [static]

Metoda, ktera zobrazuje napovedu v konzoli.

6.18.2.2 static void ComplexWpfChatServerExample.Program.Main (string[] *args*) [static]

Hlavni vlakno chat serveru.

Parameters

args	

6.18.2.3 static void ComplexWpfChatServerExample.Program.StartServer ( ) [static]

V novym vlakne odstartujeme server.

6.18.3 Property Documentation

6.18.3.1 Server ComplexWpfChatServerExample.Program.Server [static],[get],[set]

Reference na instanci serveru.

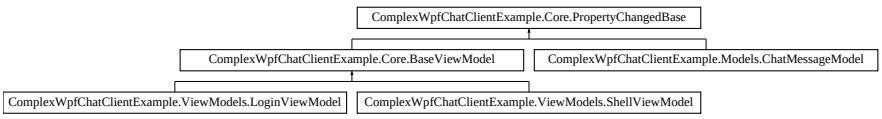
The documentation for this class was generated from the following file:

- API/src/ComplexChatServerExample/Program.cs

6.19 ComplexWpfChatClientExample.Core.PropertyChangedBase Class Reference

Zakladni trida, ktera usnadnuje praci s vyvolanim zmeny.

Inheritance diagram for ComplexWpfChatClientExample.Core.PropertyChangedBase:



Public Member Functions

- void NotifyPropertyChanged (string propertyName)

  Vyvolani zmeny vlastnosti.
- void NotifyPropertyChanged< T > (Expression< Func< T >> property)

Events

- PropertyChangedEventHandler PropertyChanged = delegate { }

  Udalost vyvolana pri zmene vlastnosti.

6.19.1 Detailed Description

Zakladni trida, ktera usnadnuje praci s vyvolanim zmeny.

6.19.2 Member Function Documentation

6.19.2.1 void ComplexWpfChatClientExample.Core.PropertyChangedBase.NotifyPropertyChanged (string *propertyName*)

Vyvolani zmeny vlastnosti.

Parameters

propertyName	jmeno zmenene vlastnosti

6.19.2.2 void ComplexWpfChatClientExample.Core.PropertyChangedBase.NotifyPropertyChanged< T > (Expression< Func< T >> *property*)

6.19.3 Event Documentation

6.19.3.1 PropertyChangedEventHandler ComplexWpfChatClientExample.Core.PropertyChangedBase.PropertyChanged = delegate { }

Udalost vyvolana pri zmene vlastnosti.

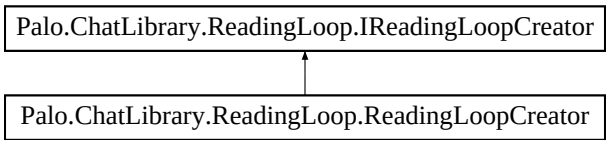
The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Core/PropertyChangedBase.cs

6.20 Palo.ChatLibrary.ReadingLoop.ReadingLoopCreator Class Reference

Trida reprezentujici tovarnu vytvarejici instance ReadingLoopThread tridy.

Inheritance diagram for Palo.ChatLibrary.ReadingLoop.ReadingLoopCreator:



Public Member Functions

- IReadingLoop FactoryMethod ()

  Metoda vracejici instanci ReadingLoopThread.

6.20.1 Detailed Description

Trida reprezentujici tovarnu vytvarejici instance ReadingLoopThread tridy.

6.20.2 Member Function Documentation

6.20.2.1 IReadingLoop Palo.ChatLibrary.ReadingLoop.ReadingLoopCreator.FactoryMethod ( )

Metoda vracejici instanci ReadingLoopThread.

Returns

instance

Implements Palo.ChatLibrary.ReadingLoop.IReadingLoopCreator.

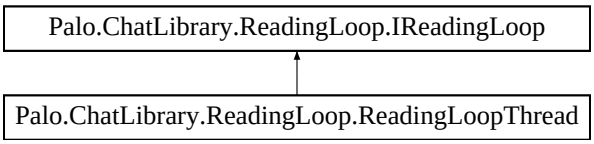
The documentation for this class was generated from the following file:

- API/src/ChatLibrary/ReadingLoop/ReadingLoopCreator.cs

6.21 Palo.ChatLibrary.ReadingLoop.ReadingLoopThread Class Reference

Smycka, ktera opakovane prijima zpravy ze socketu a odpaluje udalost se zpravou.

Inheritance diagram for Palo.ChatLibrary.ReadingLoop.ReadingLoopThread:



Public Member Functions

- ReadingLoopThread ()

  Konstruktor startujici vlakno urcene pro cteni.
- ReadingLoopThread (int maxBuffer)

  Konstruktor startujici vlakno urcene pro cteni s moznosti prednastaveni velikosti bufferu.
- virtual void Start (Socket socket)

  Nastartuje vlakno.
- virtual void Closing ()

  Ukonceni smycky.

Protected Member Functions

- virtual void StartReading ()

  Nekonecna smycka, ktera vycita prijate zpravy.
- virtual void CleanUp ()

  Uklidime po sobe.

Protected Attributes

- readonly int MAX_BUFFER_LENGTH = 1024

  Konstanta s maximalni velikosti prijateho bufferu;
- bool _closing

  True, pokud mame vlakno predcasne ukoncit.
- Thread _readThread

  Reference na cteci vlakno.

Properties

- Socket Socket `[get, set]`

  Reference na socket.

Events

- SimpleMessageHander MessageReceived = delegate { }

  Udalost, kterou odpali prijata zprava.
- SocketExceptionHandler ReadingInterrupted = delegate { }

  Udalost, kterou odpali vyjimka pri cteni zprav.

6.21.1 Detailed Description

Smycka, ktera opakovane prijima zpravy ze socketu a odpaluje udalost se zpravou.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.ReadingLoopThread ( )

Konstruktor startujici vlakno urcene pro cteni.

6.21.2.2 Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.ReadingLoopThread (int *maxBuffer*)

Konstruktor startujici vlakno urcene pro cteni s moznosti prednastaveni velikosti bufferu.

Parameters

maxBuffer	maximalni velikost prijimaneho bufferu

6.21.3 Member Function Documentation

6.21.3.1 virtual void Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.CleanUp ( ) `[protected],[virtual]`

Uklidime po sobe.

6.21.3.2 virtual void Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.Closing ( ) `[virtual]`

Ukonceni smycky.

Implements Palo.ChatLibrary.ReadingLoop.IReadingLoop.

6.21.3.3 virtual void Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.Start (Socket *socket*) [virtual]

Nastartuje vlakno.

Parameters

socket	socket, ze kteryho vycitame

Implements Palo.ChatLibrary.ReadingLoop.IReadingLoop.

6.21.3.4 virtual void Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.StartReading ( ) [protected], [virtual]

Nekonecna smycka, ktera vycita prijate zpravy.

6.21.4 Member Data Documentation

6.21.4.1 bool Palo.ChatLibrary.ReadingLoop.ReadingLoopThread._closing [protected]

True, pokud mame vlakno predcasne ukoncit.

6.21.4.2 Thread Palo.ChatLibrary.ReadingLoop.ReadingLoopThread._readThread [protected]

Reference na cteci vlakno.

6.21.4.3 readonly int Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.MAX_BUFFER_LENGTH = 1024 [protected]

Konstanta s maximalni velikosti prijateho bufferu;

6.21.5 Property Documentation

6.21.5.1 Socket Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.Socket [get], [set]

Reference na socket.

6.21.6 Event Documentation

6.21.6.1 SimpleMessageHander Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.MessageReceived = delegate { }

Udalost, kterou odpali prijata zprava.

6.21.6.2 SocketExceptionHandler Palo.ChatLibrary.ReadingLoop.ReadingLoopThread.ReadingInterrupted = delegate { }

Udalost, kterou odpali vyjimka pri cteni zprav.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/ReadingLoop/ReadingLoopThread.cs

6.22 ComplexWpfChatClientExample.Core.RelayCommand< T > Class Template Reference

Public Member Functions

- RelayCommand (Action< T > execute)
- RelayCommand (Action< T > execute, Predicate< T > canExecute)

  Creates a new command.
- bool CanExecute (object parameter)
- void Execute (object parameter)

Properties

- EventHandler CanExecuteChanged

6.22.1 Member Function Documentation

6.22.1.1 template<T > bool ComplexWpfChatClientExample.Core.RelayCommand< T >.CanExecute (object *parameter*)

6.22.1.2 template<T > void ComplexWpfChatClientExample.Core.RelayCommand< T >.Execute (object *parameter*)

6.22.1.3 template<T > ComplexWpfChatClientExample.Core.RelayCommand< T >.RelayCommand (Action< T > *execute*)

6.22.1.4 template<T > ComplexWpfChatClientExample.Core.RelayCommand< T >.RelayCommand (Action< T > *execute,* Predicate< T > *canExecute*)

Creates a new command.

Parameters

execute	The execution logic.
canExecute	The execution status logic.

6.22.2 Property Documentation

6.22.2.1 template<T > EventHandler ComplexWpfChatClientExample.Core.RelayCommand< T >.CanExecuteChanged [add], [remove]

The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Core/RelayCommand.cs

6.23 ComplexWpfChatServerExample.Server Class Reference

Trida, ktera je zodpovedna za chovani komplexniho serveru. Dle typu zpravy preposila dal, ci vraci spravna data.

Public Member Functions

- Server (IPAddress address, int port)

Konstruktor.

- void StartListen ()

  Zapocni naslouchani.

Protected Member Functions

- void ChatServer_ReadingInterrupted (object sender, Palo.ChatLibrary.Arguments.SocketExceptionArgs e)

  Reakce na vyjimku pri prijimani zpravy.
- void ChatServer_MessageReceived (object sender, Palo.ChatLibrary.Arguments.SimpleMessageArgs e)

  Reakce na prijeti zpravy.

Properties

- SimpleChatServer ChatServer `[get, set]`

  Instance chat serveru.
- ICollection< LoggedUser > UserList `[get, set]`

  Kolekce prihlasenych uzivatelu.

6.23.1 Detailed Description

Trida, ktera je zodpovedna za chovani komplexniho serveru. Dle typu zpravy preposila dal, ci vraci spravna data.

6.23.2 Constructor & Destructor Documentation

6.23.2.1 ComplexWpfChatServerExample.Server.Server (IPAddress *address*, int *port*)

Konstruktor.

6.23.3 Member Function Documentation

6.23.3.1 void ComplexWpfChatServerExample.Server.ChatServer_MessageReceived (object *sender*, Palo.ChatLibrary.Arguments.SimpleMessageArgs *e*) `[protected]`

Reakce na prijeti zpravy.

Parameters

sender	
e	

6.23.3.2 void ComplexWpfChatServerExample.Server.ChatServer_ReadingInterrupted (object *sender*, Palo.ChatLibrary.Arguments.SocketExceptionArgs *e*) `[protected]`

Reakce na vyjimku pri prijimani zpravy.

Parameters

sender	
e	

6.23.3.3 void ComplexWpfChatServerExample.Server.StartListen ( )

Zapocni naslouchani.

6.23.4 Property Documentation

6.23.4.1 SimpleChatServer ComplexWpfChatServerExample.Server.ChatServer [get], [set]

Instance chat serveru.

6.23.4.2 ICollection<LoggedUser> ComplexWpfChatServerExample.Server.UserList [get], [set]

Kolekce prihlasenych uzivatelu.

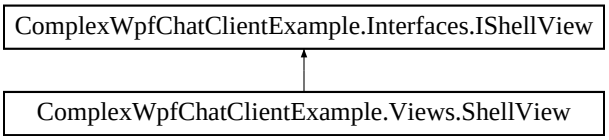
The documentation for this class was generated from the following file:

- API/src/ComplexChatServerExample/Server.cs

6.24 ComplexWpfChatClientExample.Views.ShellView Class Reference

Interaction logic for ShellView.xaml

Inheritance diagram for ComplexWpfChatClientExample.Views.ShellView:



Public Member Functions

- ShellView ()
  Konstruktor okna.
- bool ShowLoginWindow (ref LoginModel model)
  Otevreni okna pro logovani.

Properties

- IShellViewModel ViewModel [get]
  Reference na ViewModel.

6.24.1 Detailed Description

Interaction logic for ShellView.xaml

6.24.2 Constructor & Destructor Documentation

6.24.2.1 ComplexWpfChatClientExample.Views.ShellView.ShellView ( )

Konstruktor okna.

6.24.3 Member Function Documentation

6.24.3.1 bool ComplexWpfChatClientExample.Views.ShellView.ShowLoginWindow (ref LoginModel *model*)

Otevreni okna pro logovani.

Implements ComplexWpfChatClientExample.Interfaces.IShellView.

6.24.4 Property Documentation

6.24.4.1 IShellViewModel ComplexWpfChatClientExample.Views.ShellView.ViewModel [get]

Reference na ViewModel.

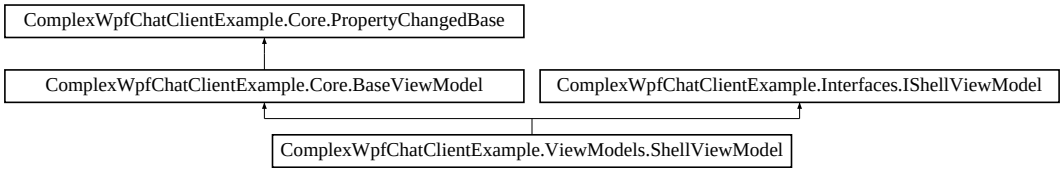
The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/Views/ShellView.xaml.cs

6.25 ComplexWpfChatClientExample.ViewModels.ShellViewModel Class Reference

ViewModel chatovaciho klienta. Zajisteni komunikace s uzivateli, pripojeni na server aj.

Inheritance diagram for ComplexWpfChatClientExample.ViewModels.ShellViewModel:



Public Member Functions

- ShellViewModel ()

  Inicializace ViewModelu.
- void PingAction (object obj)
- void RefreshAction (object obj)

  Obnoveni seznamu uzivatelu.
- void ConnectAction (object obj)

  Pripojeni na server.
- void SendAction (object obj)

  Odesilani zprav.

Protected Member Functions

- void OnMessageReceived (object sender, SimpleMessageArgs e)

  Reakce na prijeti zpravy.

Properties

- IShellView View `[get, set]`
- ChatMessage LoginMessage `[get, set]`
- int TimerMessage `[get, set]`

  Odpocet do pingu serveru.
- string CheckMessage `[get, set]`

  Odezva na server.
- ChatMessage PingMessage `[get, set]`

  Reference na zpravu pingu.
- SimpleChatClient ChatClient `[get, set]`

  Instance socket klienta.
- ObservableCollection < ChatMessageModel > Message `[get, set]`

  Kolekce vsech zobrazovanych zprav.
- ObservableCollection< LoggedUser > User `[get, set]`

  Kolekce vsech prihlasenych uzivatelu.
- LoggedUser SelectedUser `[get, set]`

  Reference na vybraneho uzivatele.
- LoggedUser CurrentUser `[get, set]`

  Prave prihlaseny uzivatel.
- string UserMessage `[get, set]`

  Zprava, kterou posila uzivatel.
- string ConnectButtonName `[get, set]`

  Nazev tlacitka "Connect".
- bool CanRefresh `[get]`
- bool CanSend `[get]`
- bool CanPing `[get]`
- ICommand PingCommand `[get]`

  Prikaz, ktery vraci akci na kontrolu odezvy.
- ICommand ConnectCommand `[get]`

  Prikaz, ktery vraci akci pripojeni na server.
- ICommand SendCommand `[get]`

  Prikaz, ktery vraci akci, ktera odesila zpravy.
- ICommand RefreshCommand `[get]`

  Prikaz, ktery obnovuje seznam uzivatelu.

Additional Inherited Members

6.25.1 Detailed Description

ViewModel chatovaciho klienta. Zajisteni komunikace s uzivateli, pripojeni na server aj.

6.25.2 Constructor & Destructor Documentation

6.25.2.1 ComplexWpfChatClientExample.ViewModels.ShellViewModel.ShellViewModel ( )

Inicializace ViewModelu.

6.25.3 Member Function Documentation

6.25.3.1 void ComplexWpfChatClientExample.ViewModels.ShellViewModel.ConnectAction (object *obj*)

Pripojeni na server.

Parameters

obj	

6.25.3.2 void ComplexWpfChatClientExample.ViewModels.ShellViewModel.OnMessageReceived (object *sender,* SimpleMessageArgs *e*) [protected]

Reakce na prijeti zpravy.

Parameters

sender	
e	

6.25.3.3 void ComplexWpfChatClientExample.ViewModels.ShellViewModel.PingAction (object *obj*)

Parameters

obj	

6.25.3.4 void ComplexWpfChatClientExample.ViewModels.ShellViewModel.RefreshAction (object *obj*)

Obnoveni seznamu uzivatelu.

Parameters

obj	

6.25.3.5 void ComplexWpfChatClientExample.ViewModels.ShellViewModel.SendAction (object *obj*)

Odesilani zprav.

Parameters

obj	

6.25.4 Property Documentation

6.25.4.1 bool ComplexWpfChatClientExample.ViewModels.ShellViewModel.CanPing [get]

6.25.4.2 bool ComplexWpfChatClientExample.ViewModels.ShellViewModel.CanRefresh [get]

6.25.4.3 bool ComplexWpfChatClientExample.ViewModels.ShellViewModel.CanSend [get]

6.25.4.4 SimpleChatClient ComplexWpfChatClientExample.ViewModels.ShellViewModel.ChatClient [get], [set]

Instance socket klienta.

6.25.4.5 string ComplexWpfChatClientExample.ViewModels.ShellViewModel.CheckMessage [get], [set]

Odezva na server.

6.25.4.6 string ComplexWpfChatClientExample.ViewModels.ShellViewModel.ConnectButtonName [get], [set]

Nazev tlacitka "Connect".

6.25.4.7 ICommand ComplexWpfChatClientExample.ViewModels.ShellViewModel.ConnectCommand [get]

Prikaz, ktery vraci akci pripojeni na server.

6.25.4.8 LoggedUser ComplexWpfChatClientExample.ViewModels.ShellViewModel.CurrentUser [get], [set]

Prave prihlaseny uzivatel.

6.25.4.9 ChatMessage ComplexWpfChatClientExample.ViewModels.ShellViewModel.LoginMessage [get], [set]

6.25.4.10 ObservableCollection<ChatMessageModel> ComplexWpfChatClientExample.ViewModels.ShellViewModel.-Message [get], [set]

Kolekce vsech zobrazovanych zprav.

6.25.4.11 ICommand ComplexWpfChatClientExample.ViewModels.ShellViewModel.PingCommand [get]

Prikaz, ktery vraci akci na kontrolu odezvy.

6.25.4.12 ChatMessage ComplexWpfChatClientExample.ViewModels.ShellViewModel.PingMessage [get], [set]

Reference na zpravu pingu.

6.25.4.13 ICommand ComplexWpfChatClientExample.ViewModels.ShellViewModel.RefreshCommand [get]

Prikaz, ktery obnovuje seznam uzivatelu.

6.25.4.14 LoggedUser ComplexWpfChatClientExample.ViewModels.ShellViewModel.SelectedUser [get], [set]

Reference na vybraneho uzivatele.

6.25.4.15 ICommand ComplexWpfChatClientExample.ViewModels.ShellViewModel.SendCommand [get]

Prikaz, ktery vraci akci, ktera odesila zpravy.

6.25.4.16 int ComplexWpfChatClientExample.ViewModels.ShellViewModel.TimerMessage [get], [set]

Odpocet do pingu serveru.

6.25.4.17 ObservableCollection<LoggedUser> ComplexWpfChatClientExample.ViewModels.ShellViewModel.User [get], [set]

Kolekce vsech prihlasenych uzivatelu.

6.25.4.18 string ComplexWpfChatClientExample.ViewModels.ShellViewModel.UserMessage [get], [set]

Zprava, kterou posila uzivatel.

6.25.4.19 IShellView ComplexWpfChatClientExample.ViewModels.ShellViewModel.View [get], [set]

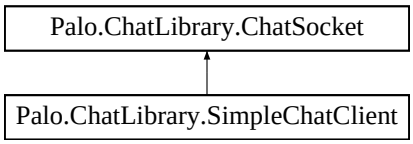
The documentation for this class was generated from the following file:

- API/src/ComplexChatClientExample/ViewModels/ShellViewModel.cs

6.26 Palo.ChatLibrary.SimpleChatClient Class Reference

Trida reprezentujici jednoduchy chatovaci klient.

Inheritance diagram for Palo.ChatLibrary.SimpleChatClient:



Public Member Functions

- SimpleChatClient (IPAddress ip, int port)

  Konstruktor, ktery preda promenne do lokalnich promennych a inicializuje instanci klienta. Vyuziti defaultniho ByteToStringConverteru.
- SimpleChatClient (IPAddress ip, int port, IByteToStringConverter converter)

  Konstruktor, ktery preda promenne do lokalnich promennych a inicializuje instanci klienta.
- SimpleChatClient (IPAddress ip, int port, IByteToStringConverter converter, IReadingLoopCreator creator)

  Konstruktor, ktery preda promenne do lokalnich promennych a inicializuje instanci klienta.
- virtual void Connect ()

  Pripojeni na server.
- virtual void SendMessage (string message)

  Odeslani zpravy na server.

Protected Member Functions

- virtual void OnServerSocketConnected (object sender, SocketArgs e)

  Metoda, ktera je vyvolana pri pripojeni na server.

Protected Attributes

- TcpClient _client

  Reference na klientsky socket.

Events

- SocketHandler ServerSocketConnected = delegate { }

  Udalost, ktera pripojeni na server.

Additional Inherited Members

6.26.1 Detailed Description

Trida reprezentujici jednoduchy chatovaci klient.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 Palo.ChatLibrary.SimpleChatClient.SimpleChatClient (IPAddress *ip,* int *port*)

Konstruktor, ktery preda promenne do lokalnich promennych a inicializuje instanci klienta. Vyuziti defaultniho Byte-ToStringConverteru.

Parameters

ip	ip adresa serveru
port	cislo portu serveru

6.26.2.2 Palo.ChatLibrary.SimpleChatClient.SimpleChatClient (IPAddress *ip,* int *port,* IByteToStringConverter *converter*)

Konstruktor, ktery preda promenne do lokalnich promennych a inicializuje instanci klienta.

Parameters

ip	ip adresa serveru
port	cislo portu serveru
converter	konverter

6.26.2.3 Palo.ChatLibrary.SimpleChatClient.SimpleChatClient (IPAddress *ip,* int *port,* IByteToStringConverter *converter,* IReadingLoopCreator *creator*)

Konstruktor, ktery preda promenne do lokalnich promennych a inicializuje instanci klienta.

Parameters

ip	ip adresa serveru
port	cislo portu serveru
converter	konverter
creator	tovarni trida, vytvarejici instance cteci smycky

6.26.3 Member Function Documentation

6.26.3.1 virtual void Palo.ChatLibrary.SimpleChatClient.Connect ( ) [virtual]

Pripojeni na server.

6.26.3.2 virtual void Palo.ChatLibrary.SimpleChatClient.OnServerSocketConnected (object *sender,* SocketArgs *e*) [protected], [virtual]

Metoda, ktera je vyvolana pri pripojeni na server.

Parameters

sender	odesilatel
e	argument

6.26.3.3 virtual void Palo.ChatLibrary.SimpleChatClient.SendMessage (string *message*) [virtual]

Odeslani zpravy na server.

Parameters

message	zprava

6.26.4 Member Data Documentation

6.26.4.1 TcpClient Palo.ChatLibrary.SimpleChatClient._client [protected]

Reference na klientsky socket.

6.26.5 Event Documentation

6.26.5.1 SocketHandler Palo.ChatLibrary.SimpleChatClient.ServerSocketConnected = delegate { }

Udalost, ktera pripojeni na server.

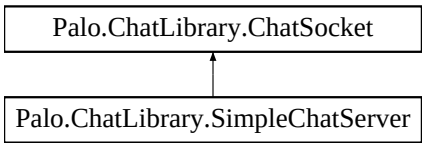
The documentation for this class was generated from the following file:

- API/src/ChatLibrary/SimpleChatClient.cs

6.27 Palo.ChatLibrary.SimpleChatServer Class Reference

Trida reprezentujici jednoduchy chatovaci server.

Inheritance diagram for Palo.ChatLibrary.SimpleChatServer:



Public Member Functions

- SimpleChatServer (IPAddress ip, int port)

  Konstruktor inicializujici listener. Vyuziti defaultniho ByteToStringConverteru.
- SimpleChatServer (IPAddress ip, int port, IByteToStringConverter converter)

  Konstruktor inicializujici listener.

- SimpleChatServer (IPAddress ip, int port, IByteToStringConverter converter, IReadingLoopCreator creator)

  Konstruktor inicializujici listener.
- virtual void StartListen ()

  Naslouchani serveru na urcenem portu.
- virtual void SendMessage (Socket socket, string message)

  Odeslani textove zpravy na dany socket.

Protected Member Functions

- virtual void OnSocketAccepted (object sender, SocketArgs e)

  Metoda, ktera je vyvolana pri akceptaci socketu.

Protected Attributes

- TcpListener _serverListener

  Reference na listener.

Events

- SocketHandler SocketAccepted = delegate { }

  Udalost, ktera nastane pri akceptaci socketu.

Additional Inherited Members

6.27.1 Detailed Description

Trida reprezentujici jednoduchy chatovaci server.

6.27.2 Constructor & Destructor Documentation

6.27.2.1 Palo.ChatLibrary.SimpleChatServer.SimpleChatServer (IPAddress *ip,* int *port*)

Konstruktor inicializujici listener. Vyuziti defaultniho ByteToStringConverteru.

Parameters

ip	ip adresa serveru
port	cislo portu serveru

6.27.2.2 Palo.ChatLibrary.SimpleChatServer.SimpleChatServer (IPAddress *ip,* int *port,* IByteToStringConverter *converter*)

Konstruktor inicializujici listener.

Parameters

ip	ip adresa serveru
port	cislo portu serveru
converter	konverter

6.27.2.3 Palo.ChatLibrary.SimpleChatServer.SimpleChatServer (IPAddress *ip,* int *port,* IByteToStringConverter *converter,* IReadingLoopCreator *creator*)

Konstruktor inicializujici listener.

Parameters

ip	ip adresa serveru
port	cislo portu serveru
converter	konverter

6.27.3 Member Function Documentation

6.27.3.1 virtual void Palo.ChatLibrary.SimpleChatServer.OnSocketAccepted (object *sender,* SocketArgs *e*) [protected], [virtual]

Metoda, ktera je vyvolana pri akceptaci socketu.

Parameters

sender	odesilatel
e	argument

6.27.3.2 virtual void Palo.ChatLibrary.SimpleChatServer.SendMessage (Socket *socket,* string *message*) [virtual]

Odeslani textove zpravy na dany socket.

Parameters

socket	socket
message	zprava

6.27.3.3 virtual void Palo.ChatLibrary.SimpleChatServer.StartListen ( ) [virtual]

Naslouchani serveru na urcenem portu.

6.27.4 Member Data Documentation

6.27.4.1 TcpListener Palo.ChatLibrary.SimpleChatServer._serverListener [protected]

Reference na listener.

6.27.5 Event Documentation

6.27.5.1 SocketHandler Palo.ChatLibrary.SimpleChatServer.SocketAccepted = delegate { }

Udalost, ktera nastane pri akceptaci socketu.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/SimpleChatServer.cs

6.28 Palo.ChatLibrary.Arguments.SimpleMessageArgs Class Reference

Argument s textovou zpravou.

Public Member Functions

- SimpleMessageArgs (string message)

  Konstruktor ukladajici referenci na textovou zpravu do lokalni promenne argumentu.

Properties

- string Message `[get, set]`

  Textova zprava.

6.28.1 Detailed Description

Argument s textovou zpravou.

6.28.2 Constructor & Destructor Documentation

6.28.2.1 Palo.ChatLibrary.Arguments.SimpleMessageArgs.SimpleMessageArgs (string *message*)

Konstruktor ukladajici referenci na textovou zpravu do lokalni promenne argumentu.

Parameters

message	textova zprava

6.28.3 Property Documentation

6.28.3.1 string Palo.ChatLibrary.Arguments.SimpleMessageArgs.Message `[get],[set]`

Textova zprava.

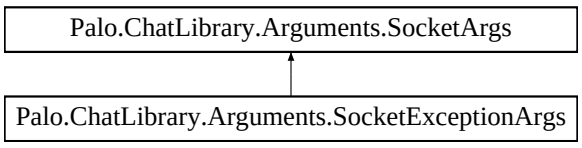
The documentation for this class was generated from the following file:

- API/src/ChatLibrary/Arguments/SimpleMessageArgs.cs

6.29 Palo.ChatLibrary.Arguments.SocketArgs Class Reference

Trida, reprezentujici argument uchovavajici socket.

Inheritance diagram for Palo.ChatLibrary.Arguments.SocketArgs:



Public Member Functions

- SocketArgs (Socket socket)

  Predani socketu do argumentu.

Properties

- Socket Socket `[get, set]`

  Reference na ulozeny socket.

6.29.1 Detailed Description

Trida, reprezentujici argument uchovavajici socket.

6.29.2 Constructor & Destructor Documentation

6.29.2.1 Palo.ChatLibrary.Arguments.SocketArgs.SocketArgs (Socket *socket*)

Predani socketu do argumentu.

Parameters

socket	socket

6.29.3 Property Documentation

6.29.3.1 Socket Palo.ChatLibrary.Arguments.SocketArgs.Socket `[get],[set]`

Reference na ulozeny socket.

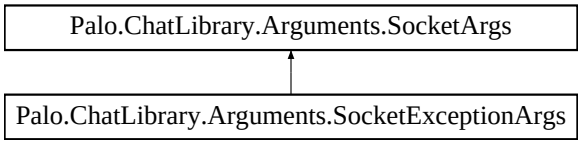
The documentation for this class was generated from the following file:

- API/src/ChatLibrary/Arguments/SocketArgs.cs

6.30 Palo.ChatLibrary.Arguments.SocketExceptionArgs Class Reference

Trida, reprezentujici argument uchovavajici vyjimku a socket, na kterym se problem vyskytl.

Inheritance diagram for Palo.ChatLibrary.Arguments.SocketExceptionArgs:



Public Member Functions

- SocketExceptionArgs (Exception ex, Socket socket)

  Predani socketu a vyjimky do argumentu.

Properties

- Exception Exception `[get, set]`

  Reference na vyjimku.

6.30.1 Detailed Description

Trida, reprezentujici argument uchovavajici vyjimku a socket, na kterym se problem vyskytl.

6.30.2 Constructor & Destructor Documentation

6.30.2.1 Palo.ChatLibrary.Arguments.SocketExceptionArgs.SocketExceptionArgs (Exception *ex*, Socket *socket*)

Predani socketu a vyjimky do argumentu.

Parameters

ex	vyjimka
socket	socket

6.30.3 Property Documentation

6.30.3.1 Exception Palo.ChatLibrary.Arguments.SocketExceptionArgs.Exception `[get],[set]`

Reference na vyjimku.

The documentation for this class was generated from the following file:

- API/src/ChatLibrary/Arguments/SocketExceptionArgs.cs

Chapter 7

File Documentation

7.1 API/src/ChatLibrary/Arguments/SimpleMessageArgs.cs File Reference

Classes

- class Palo.ChatLibrary.Arguments.SimpleMessageArgs

  Argument s textovou zpravou.

Packages

- package Palo.ChatLibrary.Arguments

Functions

- delegate void Palo.ChatLibrary.Arguments.SimpleMessageHander (object sender, SimpleMessageArgs e)

  Predpis pro akci vracejici textovou zpravu v argumentu.

7.2 API/src/ChatLibrary/Arguments/SocketArgs.cs File Reference

Classes

- class Palo.ChatLibrary.Arguments.SocketArgs

  Trida, reprezentujici argument uchovavajici socket.

Packages

- package Palo.ChatLibrary.Arguments

Functions

- delegate void Palo.ChatLibrary.Arguments.SocketHandler (object sender, SocketArgs e)

  Predpis funkce vracejici socket v argumentu.

7.3 API/src/ChatLibrary/Arguments/SocketExceptionArgs.cs File Reference

Classes

- class Palo.ChatLibrary.Arguments.SocketExceptionArgs

  Trida, reprezentujici argument uchovavajici vyjimku a socket, na kterym se problem vyskytl.

Packages

- package Palo.ChatLibrary.Arguments

Functions

- delegate void Palo.ChatLibrary.Arguments.SocketExceptionHandler (object sender, SocketExceptionArgs e)

  Predpis funkce vracejici vyjimku objevenou na socketu v argumentu.

7.4 API/src/ChatLibrary/ChatSocket.cs File Reference

Classes

- class Palo.ChatLibrary.ChatSocket

  Predek vsech chat klient/serveru. Implementuje vsechny spolecne prvky jako odesilani zpravy, prijimani zprav ve vlakne na pozadi.

Packages

- package Palo.ChatLibrary

7.5 API/src/ChatLibrary/Converters/ByteToStringConverter.cs File Reference

Classes

- class Palo.ChatLibrary.Converters.ByteToStringConverter

  Prevadec pole bytu na textovy retezec a zpet.

Packages

- package Palo.ChatLibrary.Converters

7.6 API/src/ChatLibrary/Converters/IByteToStringConverter.cs File Reference

Classes

- interface Palo.ChatLibrary.Converters.IByteToStringConverter

Packages

- package Palo.ChatLibrary.Converters

7.7 API/src/ChatLibrary/Messages/ChatMessage.cs File Reference

Classes

- class Palo.ChatLibrary.Shared.ChatMessage

  Objekt, ktery reprezentuje zpravu chatu.

Packages

- package Palo.ChatLibrary.Shared

7.8 API/src/ChatLibrary/Messages/ChatMessageEnums.cs File Reference

Packages

- package Palo.ChatLibrary.Shared

Enumerations

- enum Palo.ChatLibrary.Shared.ChatMessageType {
  Palo.ChatLibrary.Shared.LOGIN,
  Palo.ChatLibrary.Shared.LOGOUT,
  Palo.ChatLibrary.Shared.ALL_MSG,
  Palo.ChatLibrary.Shared.PRIV_MSG,
  Palo.ChatLibrary.Shared.USERS,
  Palo.ChatLibrary.Shared.PING }

  Vycet vsech typu posilanych zprav.
- enum Palo.ChatLibrary.Shared.ChatMessageResponse {
  Palo.ChatLibrary.Shared.OK,
  Palo.ChatLibrary.Shared.ERR }

  Vycet vsech typu odpovedi.

7.9 API/src/ChatLibrary/ReadingLoop/IReadingLoop.cs File Reference

Classes

- interface Palo.ChatLibrary.ReadingLoop.IReadingLoop

  Rozhrani vlakna, ktere vycita zpravy na socketu a odpaluje pritom udalost prijeti.

Packages

- package Palo.ChatLibrary.ReadingLoop

7.10 API/src/ChatLibrary/ReadingLoop/IReadingLoopCreator.cs File Reference

Classes

- interface Palo.ChatLibrary.ReadingLoop.IReadingLoopCreator

  Rozhrani pro factory tridu, ktera vytvori instance IReadingLoop rozhrani.

Packages

- package Palo.ChatLibrary.ReadingLoop

7.11 API/src/ChatLibrary/ReadingLoop/ReadingLoopCreator.cs File Reference

Classes

- class Palo.ChatLibrary.ReadingLoop.ReadingLoopCreator

  Trida reprezentujici tovarnu vytvarejici instance ReadingLoopThread tridy.

Packages

- package Palo.ChatLibrary.ReadingLoop

7.12 API/src/ChatLibrary/ReadingLoop/ReadingLoopThread.cs File Reference

Classes

- class Palo.ChatLibrary.ReadingLoop.ReadingLoopThread

  Smycka, ktera opakovane prijima zpravy ze socketu a odpaluje udalost se zpravou.

Packages

- package Palo.ChatLibrary.ReadingLoop

7.13 API/src/ChatLibrary/SimpleChatClient.cs File Reference

Classes

- class Palo.ChatLibrary.SimpleChatClient

  Trida reprezentujici jednoduchy chatovaci klient.

Packages

- package Palo.ChatLibrary

7.14 API/src/ChatLibrary/SimpleChatServer.cs File Reference

Classes

- class Palo.ChatLibrary.SimpleChatServer

  Trida reprezentujici jednoduchy chatovaci server.

Packages

- package Palo.ChatLibrary

7.15 API/src/ChatLibrary/UserManagements/LoggedUser.cs File Reference

Classes

- class Palo.ChatLibrary.UserManagements.LoggedUser

Packages

- package Palo.ChatLibrary.UserManagements

7.16 API/src/ComplexChatClientExample/App.xaml.cs File Reference

Classes

- class ComplexWpfChatClientExample.App

  Interaction logic for App.xaml

Packages

- package ComplexWpfChatClientExample

7.17 API/src/ComplexChatClientExample/Core/AppSettingsReader.cs File Reference

Classes

- class **ComplexWpfChatClientExample.Core.AppSettingsReader**

  Pomocna trida pro praci s AppSettings.

Packages

- package ComplexWpfChatClientExample.Core

7.18 API/src/ComplexChatServerExample/AppSettingsReader.cs File Reference

Classes

- class **ComplexWpfChatServerExample.AppSettingsReader**
  Pomocna trida pro praci s AppSettings.

Packages

- package ComplexWpfChatServerExample

7.19 API/src/ComplexChatClientExample/Core/BaseViewModel.cs File Reference

Classes

- class ComplexWpfChatClientExample.Core.BaseViewModel

Packages

- package ComplexWpfChatClientExample.Core

7.20 API/src/ComplexChatClientExample/Core/ExtensionMethods.cs File Reference

Classes

- class **ComplexWpfChatClientExample.Core.ExtensionMethods**
  Staticka trida, ktera rozsiruje tridy o nove metody.

Packages

- package ComplexWpfChatClientExample.Core

7.21 API/src/ComplexChatClientExample/Core/PropertyChangedBase.cs File Reference

Classes

- class ComplexWpfChatClientExample.Core.PropertyChangedBase
  Zakladni trida, ktera usnadnuje praci s vyvolanim zmeny.

Packages

- package ComplexWpfChatClientExample.Core

7.22 API/src/ComplexChatClientExample/Core/RelayCommand.cs File Reference

Classes

- class ComplexWpfChatClientExample.Core.RelayCommand< T >

Packages

- package ComplexWpfChatClientExample.Core

7.23 API/src/ComplexChatClientExample/Interfaces/ILoginView.cs File Reference

Classes

- interface ComplexWpfChatClientExample.Interfaces.ILoginView

Packages

- package ComplexWpfChatClientExample.Interfaces

7.24 API/src/ComplexChatClientExample/Interfaces/ILoginViewModel.cs File Reference

Classes

- interface ComplexWpfChatClientExample.Interfaces.ILoginViewModel

Packages

- package ComplexWpfChatClientExample.Interfaces

7.25 API/src/ComplexChatClientExample/Interfaces/IShellView.cs File Reference

Classes

- interface ComplexWpfChatClientExample.Interfaces.IShellView

Packages

- package ComplexWpfChatClientExample.Interfaces

7.26 API/src/ComplexChatClientExample/Interfaces/IShellViewModel.cs File Reference

Classes

- interface ComplexWpfChatClientExample.Interfaces.IShellViewModel

Packages

- package ComplexWpfChatClientExample.Interfaces

7.27 API/src/ComplexChatClientExample/Models/ChatMessageModel.cs File Reference

Classes

- class ComplexWpfChatClientExample.Models.ChatMessageModel

Packages

- package ComplexWpfChatClientExample.Models

7.28 API/src/ComplexChatClientExample/Models/LoginModel.cs File Reference

Classes

- class ComplexWpfChatClientExample.Models.LoginModel

Packages

- package ComplexWpfChatClientExample.Models

7.29 API/src/ComplexChatClientExample/ViewModels/LoginViewModel.cs File Reference

Classes

- class ComplexWpfChatClientExample.ViewModels.LoginViewModel

Packages

- package ComplexWpfChatClientExample.ViewModels

7.30 API/src/ComplexChatClientExample/ViewModels/ShellViewModel.cs File Reference

Classes

- class ComplexWpfChatClientExample.ViewModels.ShellViewModel

  ViewModel chatovaciho klienta. Zajisteni komunikace s uzivateli, pripojeni na server aj.

Packages

- package ComplexWpfChatClientExample.ViewModels

7.31 API/src/ComplexChatClientExample/Views/LoginView.xaml.cs File Reference

Classes

- class ComplexWpfChatClientExample.Views.LoginView

  Interaction logic for LoginView.xaml

Packages

- package ComplexWpfChatClientExample.Views

7.32 API/src/ComplexChatClientExample/Views/ShellView.xaml.cs File Reference

Classes

- class ComplexWpfChatClientExample.Views.ShellView
  Interaction logic for ShellView.xaml

Packages

- package ComplexWpfChatClientExample.Views

7.33 API/src/ComplexChatServerExample/EnumerableExtension.cs File Reference

Classes

- class **ComplexWpfChatServerExample.EnumerableExtension**
  Rozsireni pro vyctovy typ.

Packages

- package ComplexWpfChatServerExample

7.34 API/src/ComplexChatServerExample/Program.cs File Reference

Classes

- class ComplexWpfChatServerExample.Program
  Vstupni bod aplikace chat server.

Packages

- package ComplexWpfChatServerExample

7.35 API/src/ComplexChatServerExample/Server.cs File Reference

Classes

- class ComplexWpfChatServerExample.Server
  Trida, ktera je zodpovedna za chovani komplexniho serveru. Dle typu zpravy preposila dal, ci vraci spravna data.

Packages

- package ComplexWpfChatServerExample

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