## GU

+ startUpMenu(): -login(ChatRoom

-youAreLogin(Chat

-closeChatApp(); v

-button\_Click(): int

-printAlerts(string s

-printUiMessages(

ChatRo

### User :IComparable , ISerializable-Business logic

nickName: string

- group\_ld: string

- status : bool

+ SendMessage(string msgcontent): Message

+ logOut(): void

+changeNickname(string newName): void

+ isOnline(): bool

+CompareTo(object obj):int

# - loggedinUser: User

00

- Message:List

- Users: List

-Url : string

+ login(string nickName, stri

+ registration(string newNic

+ rerieveMessages( int mun

+dispRetrievedMessages(in

+ dispMsgB\yUser(string nic

-alreadyExists(string nn, stri

-getUser(string nn, string g\_

-getMessage(string msg):Me

+ send (string msg): void

-isExists(Message msg):boo

-changeNickname(string ne

FileHondl

CLI/Main -Presentation	
pid	
nat):bool	
oom chat)	
id	
·):void	
ring str)	

om - Business logic

ng g\_ID): void

ng g\_id):bool

wName):void

id):bool

essage

n):void

Name, String g\_ID): void

t num): List<Message>

kName, string g\_ID):List<Message>

# Message: IComparable, ISerializable-Business logic - timeStamp: DateTime -messageBody: string - writer\_gID: string - isSent: bool - isRecived: bool - writer\_name: string -guidname: Guid +covertImessage( IMessagee mess): Message +checkContentValidity(string msg): bool +CompareTo (object obj) + Save(): void + editMessage(String msg): void - checkContentValidity(String msg): boolean

or Doto (Boroistanos

-instance : FileHandler

-DirectoryInfo : currDir

-userListPath: string

 $\hbox{-msgListPath}: {\sf string}$ 

-streamUsers : stream

-streamMsg : Stream

- bf : BinaryFormatter

+AmiHoffman :FileHandler

-saveUserList (List <User> Li

- saveMessageList(List <Mes

- loadMessageList(): List <Me

- LoadUserList(): List<User>

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