cardGames

Package in package 'Model'

cardGames
Version Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017

Client

Package in package 'cardGames'

Client Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

Client diagram

Class diagram in package 'Client'

Program - ipaddr: string = "127.0.0.1" - port: int = 8080 - username: string + GetUserInfos(): void + GetUsername(): string + Main(): void - RunClientAsync(): Task

Figure 1: Client

ClientHandler

Package in package 'Client'

ClientHandler Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ClientHandler diagram

Class diagram in package 'ClientHandler'

ClientHandler Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

SimpleChannelInboundHandler

ClientHandler

- channel: IChannel
- queue: ConcurrentQueue<Response> = new ConcurrentQ...
- response: Response = new Response()
- username: string
- # ChannelReadO(IChannelHandlerContext, Response): void
- + ChannelRegistered(IChannelHandlerContext): void
- CheckEntry(string, string): void
- + ExceptionCaught(IChannelHandlerContext, Exception): void
- GetResponse(): Response.Types.Type
- PrintConsole(): void
- PrintConsoleBuffered(): void
- + RegisterServer(string): void
- SendRequest(string, Request.Types.Type, IReadOnlyCollection<string>): void
- + WaitUserEntry(): void

Figure 2: ClientHandler

ClientHandler

Class in package 'ClientHandler'

ClientHandler
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends SimpleChannelInboundHandler

ATTRIBUTES

channel: IChannel Private

[Is static True. Containment is Not Specified.]

queue : ConcurrentQueue<Response> Private = new ConcurrentQueue<Response>()

[Is static True. Containment is Not Specified.]

response : Response Private = new Response()

[Is static True. Containment is Not Specified.]

username : string Private

[Is static True. Containment is Not Specified.]

OPERATIONS

ChannelRead0 (ctx : IChannelHandlerContext , msg : Response) : void Protected

Properties:

override = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ChannelRegistered (context : IChannelHandlerContext) : void Public

Properties:

override = true

Model Report 12 November, 2017 **OPERATIONS** [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] CheckEntry (entry: string, username: string): void Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.] ExceptionCaught (contex : IChannelHandlerContext, e : Exception) : void Public Properties: override = true [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] GetResponse (): Response. Types. Type Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.] PrintConsole (): void Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.] PrintConsoleBuffered (): void Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.] RegisterServer (username : string) : void Public [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.] 🔷 SendRequest (username : string , type : Request.Types.Type , param : IReadOnlyCollection<string>) : void Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ClientInitializer

Package in package 'Client'

ClientInitializer Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ClientInitializer diagram

Class diagram in package 'ClientInitializer'

ClientInitializer Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

Channellnitializer ClientChannelInitializer # InitChannel(ISocketChannel): void

Figure 3: ClientInitializer

ClientChannelInitializer

Class in package 'ClientInitializer'

ClientChannelInitializer Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends ChannelInitializer

OPERATIONS



InitChannel (channel : ISocketChannel) : void Protected

Properties:

override = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Library

Package in package 'Client'

Library Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

Library diagram

Class diagram in package 'Library'

Library Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

U tils

Utils::ConsoleColors

PrintWithColor(string, ConsoleColor, bool): void

Utils::ConsoleReader

- _shutdown: bool = false
- buffer: Queue<string> = new Queue<string>() {readOnly}
- readThread: Thread {readOnly}
- ConsoleReader()
- DataReceived(): bool
- Shutdown(): void
- Start(): void
- Take(): string

Figure 4: Library

Utils

Class in package 'Library'

Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ELEMENTS OWNED BY Utils

■ ConsoleColors : Class

■ ConsoleReader : Class

ConsoleColors

Class owned by 'Utils', in package 'Library'

ConsoleColors Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

OPERATIONS

PrintWithColor (text : string, color : ConsoleColor, withNewline : bool) : void Public

OPERATIONS

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ConsoleReader

Class owned by 'Utils', in package 'Library'

ConsoleReader Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

| ATTRIBUTES | |
|---|--|
| _shutdown : bool Private = false | [Is static False. Containment is Not Specified.] |
| <pre>buffer : Queue<string> Private Const = new Queue<string>()</string></string></pre> | [Is static False. Containment is Not Specified.] |
| | [Is static False. Containment is Not Specified.] |

| OPERATIONS | |
|----------------------------|--|
| ConsoleReader (): Public | [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] |
| DataReceived (): bool Publ | ic [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] |
| Shutdown (): void Public | [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] |
| Start (): void Public | [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] |
| Take (): string Public | [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] |

Program

Class in package 'Client'

ATTRIBUTES

• _ipaddr : string Private = "127.0.0.1"

[Is static True. Containment is Not Specified.]

port : int Private = 8080

[Is static True. Containment is Not Specified.]

_username : string Private

[Is static True. Containment is Not Specified.]

OPERATIONS

GetUserInfos (): void Public

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• GetUsername (): string Public

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Main (): void Public

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

RunClientAsync (): Task Private

Properties:

async = true

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Server

Package in package 'cardGames'

Server Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

Server diagram

Class diagram in package 'Server'

Server Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

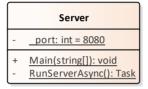


Figure 5: Server

ServerHandler

Package in package 'Server'

ServerHandler Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ServerHandler diagram

Class diagram in package 'ServerHandler'

ServerHandler Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

SimpleChannelInboundHandler ServerHandler - board: Board = new Board() - group: volatile IChannelGroup - buildHelpCommands(): List<HelpCommand> + ChannelActive(IChannelHandlerContext): void # ChannelReadO(IChannelHandlerContext, Request): void + ChannelReadComplete(IChannelHandlerContext): void - CheckTurn(Request): bool

Figure 6: ServerHandler

ServerHandler

Class in package 'ServerHandler'

ServerHandler Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends SimpleChannelInboundHandler

ATTRIBUTES

board : Board Private = new Board()

[Is static True. Containment is Not Specified.]

group : IChannelGroup Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ServerHandler Target: Private board (Class) Board

OPERATIONS

buildHelpCommands () : List<HelpCommand> Private

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ChannelActive (contex : IChannelHandlerContext) : void Public

Properties:

override = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• ChannelRead0 (ctx : IChannelHandlerContext, msg : Request) : void Protected

Properties:

override = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

• ChannelReadComplete (ctx : IChannelHandlerContext) : void Public

Properties:

override = true

expressionBody = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

CheckTurn (msg : Request) : bool Private

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ServerInitializer

Package in package 'Server'

ServerInitializer Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ServerInitializer diagram

Class diagram in package 'ServerInitializer'

ServerInitializer Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

Channellnitializer ServerChannelInitializer # InitChannel(ISocketChannel): void

Figure 7: ServerInitializer

ServerChannelInitializer

Class in package 'ServerInitializer'

ServerChannelInitializer Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends ChannelInitializer

OPERATIONS



InitChannel (channel : ISocketChannel) : void Protected

Properties:

override = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

gameCore

Package in package 'Server'

gameCore Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

gameCore diagram

Class diagram in package 'gameCore'

gameCore Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

Player

- _cards: List<Card>_histurn: bool
- _inBattle: bool
- + addCard(Card): void
- + GetCards(): List<Card>
- + isHisTurn(): bool
- + IsInBattle(): bool
- + PlayACard(): Card
- + Player()
- + SetHisTurn(bool): void
- + SetInBattle(bool): void

Board

- _designedPlayer: string
- _inBattle: bool
- _playedCards: List<Card>
- playerNames: List<string>
- __players: Dictionary<string, Player>
- _waitingPlayerList: List<string>
- MaxPlayers: int = 2
- + Board()
- + CanPlay(string): bool
- + CreateGameInstance(): void
- FirstPlayCheck(string, string): Response
- + GetLastPlayedCard(): List<string>
- + GetNbrOfPlayers(): int
- + NewPlayer(string): bool
- + PassTurn(string): Response
- PlayACardAndDoNothing(Response, string): Response
- + PlayCard(string): Response
- + RemovePlayer(string): void

Figure 8: gameCore

Cards

Package in package 'gameCore'

Cards Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

Cards diagram

Class diagram in package 'Cards'

Cards Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

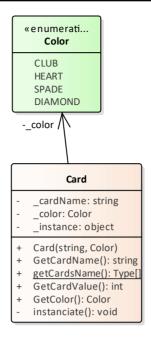


Figure 9: Cards

AbstractCard

Package in package 'Cards'

AbstractCard Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

AbstractCard diagram

Class diagram in package 'AbstractCard'

AbstractCard Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

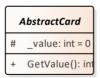


Figure 10: AbstractCard

AbstractCard

Class in package 'AbstractCard'

AbstractCard Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

| INCOMING STRUCTURAL RELATIONSHIPS | |
|---|---|
| → Generalization from King to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Jack to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Six to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Ten to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Four to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Nine to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Five to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Three to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Eight to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Seven to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Ace to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Queen to AbstractCard | [Direction is 'Source -> Destination'.] |
| → Generalization from Two to AbstractCard | [Direction is 'Source -> Destination'.] |
| | |



value : int Protected = 0

[Is static False. Containment is Not Specified.]

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OPERATIONS



GetValue (): int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

CardsPack

Package in package 'Cards'

CardsPack Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

CardsPack diagram

Class diagram in package 'CardsPack'

CardsPack Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

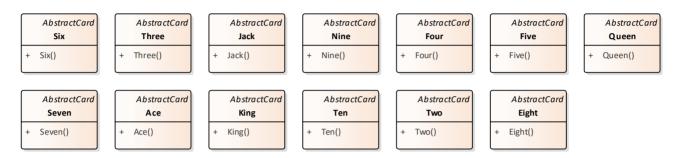


Figure 11: CardsPack

Ace

Class in package 'CardsPack'

Ace
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Ace to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Ace (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Eight

Class in package 'CardsPack'

Eight Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Eight to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Fight (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Five

Class in package 'CardsPack'

Five Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Five to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Five (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Four

Class in package 'CardsPack'

Four Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Four to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Four (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Jack

Class in package 'CardsPack'

Jack
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Jack to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Jack (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

King

Class in package 'CardsPack'

King
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from King to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

King () : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Nine

Class in package 'CardsPack'

Nine Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Nine to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Nine (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Queen

Class in package 'CardsPack'

Queen
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Queen to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Queen () : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Seven

Class in package 'CardsPack'

Seven
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Seven to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Seven (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Six

Class in package 'CardsPack'

Six

Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017

Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Six to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Six (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Ten

Class in package 'CardsPack'

Ten
Version 1.0 Phase 1.0 Proposed
loic lopez created on 11/12/2017. Last modified 11/12/2017
Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Ten to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Fren (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Three

Class in package 'CardsPack'

Three Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Three to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Three (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Two

Class in package 'CardsPack'

Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017 Extends AbstractCard

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from Two to AbstractCard

[Direction is 'Source -> Destination'.]

OPERATIONS

Two (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Card

Class in package 'Cards'

Card Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ATTRIBUTES

_cardName : string Private

[Is static False. Containment is Not Specified.]

color : Color Private

[Is static False. Containment is Not Specified.]

_instance : object Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Card

Target: Private color (Enumeration) Color

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Board Target: Private _playedCards (Class) Card Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) Player Target: Private _cards (Class) Card

Cardinality: [0..*]

OPERATIONS

• Card (cardName : string , color : Color) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

♦ GetCardName () : string Public

Properties:

expressionBody = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getCardsName (): Type Public

Properties:

array = []

[Is static True. Is abstract False. Is return array True. Is query False. Is synchronized False.]

♦ GetCardValue () : int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

GetColor () : Color Public

Properties:

expressionBody = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

instanciate (): void Private

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Color

Enumeration in package 'Cards'

Color Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ATTRIBUTES

| ATTRIBUTES | |
|-----------------|--|
| | [Is static False. Containment is Not Specified.] |
| → HEART: Public | [Is static False. Containment is Not Specified.] |
| | [Is static False. Containment is Not Specified.] |
| DIAMOND: Public | [Is static False. Containment is Not Specified.] |

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Card Target: Private _color (Enumeration) Color

Library

Package in package 'gameCore'

Library
Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

Library diagram

Class diagram in package 'Library'

Library Version 1.0 loic lopez created on 11/12/2017. Last modified 11/12/2017

+ GetColorsNames(): List<Color> - GetTypesInNamespace(string): Type[] - MagicallyCreateInstance(string): object - ShuffleList(List<TE>): List<TE>

Figure 12: Library

Utils

Class in package 'Library'

Utils
Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

OPERATIONS

♦ GetColorsNames () : List<Color> Public

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

GetTypesInNamespace (nameSpace : string) : Type Public

Properties:

array = []

[Is static True. Is abstract False. Is return array True. Is query False. Is synchronized False.]

- MagicallyCreateInstance (className : string): object Public
 - [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]
- ShuffleList (inputList : List<TE>) : List<TE> Public

Properties:

generic = <TE>

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Board

Class in package 'gameCore'

Board Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

| ATTRIBUTES | |
|---|---|
| _designedPlayer : string Private | [Is static False. Containment is Not Specified.] |
| _inBattle : bool Private | [Is static False. Containment is Not Specified.] |
| _playedCards : List <card> Private</card> | [Is static False. Containment is Not Specified.] |
| _playerNames : List <string> Private</string> | [Is static False. Containment is Not Specified.] |
| _players : Dictionary <string, player=""> Private</string,> | [Is static False. Containment is Not Specified.] |
| _waitingPlayerList : List <string> Private</string> | [Is static False. Containment is Not Specified.] |
| MaxPlayers : int Public = 2 | |
| Properties: const = true | [Is static False. Containment is Not Specified.] |
| ASSOCIATIONS | |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Board | Target: Private _playedCards (Class) Card Cardinality: [0*] |

OPERATIONS

Board (): Public

Association (direction: Source -> Destination)

Source: Public (Class) ServerHandler

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Target: Private _board (Class) Board

OPERATIONS

CanPlay (playerName : string) : bool Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

CreateGameInstance (): void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

FirstPlayCheck (color: string, cardName: string): Response Private

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

GetLastPlayedCard (): List<string> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

GetNbrOfPlayers (): int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

NewPlayer (userName : string) : bool Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

PassTurn (username : string) : Response Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

PlayACardAndDoNothing (response : Response , username : string) : Response Private

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

PlayCard (username : string) : Response Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

RemovePlayer (userName : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Player

Class in package 'gameCore'

Player Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ATTRIBUTES

_cards : List<Card> Private

[Is static False. Containment is Not Specified.]

histurn : bool Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES

inBattle: bool Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Player

Target: Private _cards (Class) Card

Cardinality: [0..*]

OPERATIONS

addCard (card : Card) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

GetCards () : List<Card> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

isHisTurn (): bool Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

♦ IsInBattle () : bool Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

PlayACard (): Card Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Player (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SetHisTurn (hisTurn : bool) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SetInBattle (inBattle : bool) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Server

Class in package 'Server'

Server Version 1.0 Phase 1.0 Proposed loic lopez created on 11/12/2017. Last modified 11/12/2017

ATTRIBUTES

port : int Private = 8080

[Is static True. Containment is Not Specified.]

OPERATIONS

Main (args : string[]) : void Public

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

RunServerAsync (): Task Private

Properties:

async = true

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]