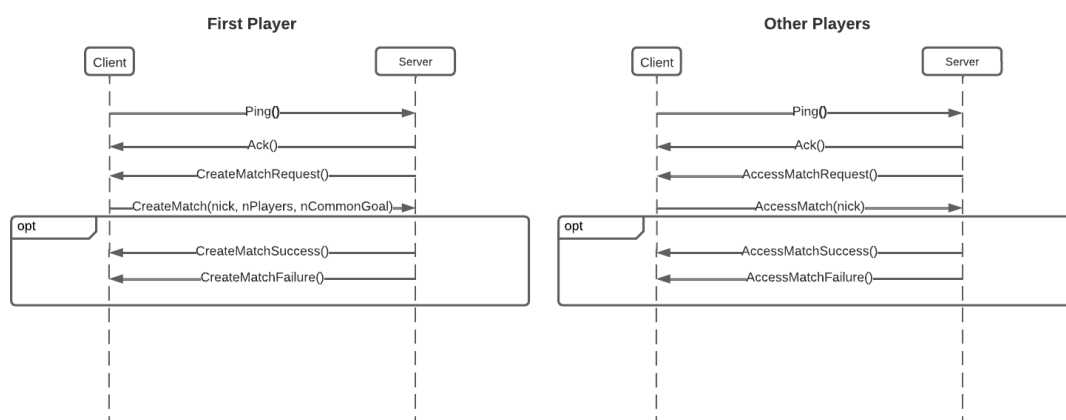


My Shelfie Protocol Documentation

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Group 42

Messages



1.1 Match creation messages

In this phase the client tries to establish a connection with the server and create a match, if a match already exists the client tries to join it.

1.1.1 Ping()

The Ping message is used to inform the Server of the effective presence of the client.

1.1.2 Ack()

Ack messages are always sent in response to Ping messages.

1.1.3 CreateMatchRequest()

Message sent by the server to inform the client of his availability for match creation.

1.1.4 CreateMatch(nick, n Players, n commonGoals)

Message sent by the client to request a match creation, it also includes the following information: the nickname of the client, the number of expected players and the number of common goals.

1.1.5 CreateMatchSuccess()

Message sent by the server to the client if the creation of the match is completed successfully

1.1.6 CreateMatchFailure()

Message sent by the server to the client if the creation of the match isn't completed successfully

1.2.1 AccessMatchRequest()

This message is sent to the client in the situation where a match already exists.

1.2.2 AccessMatch(nick)

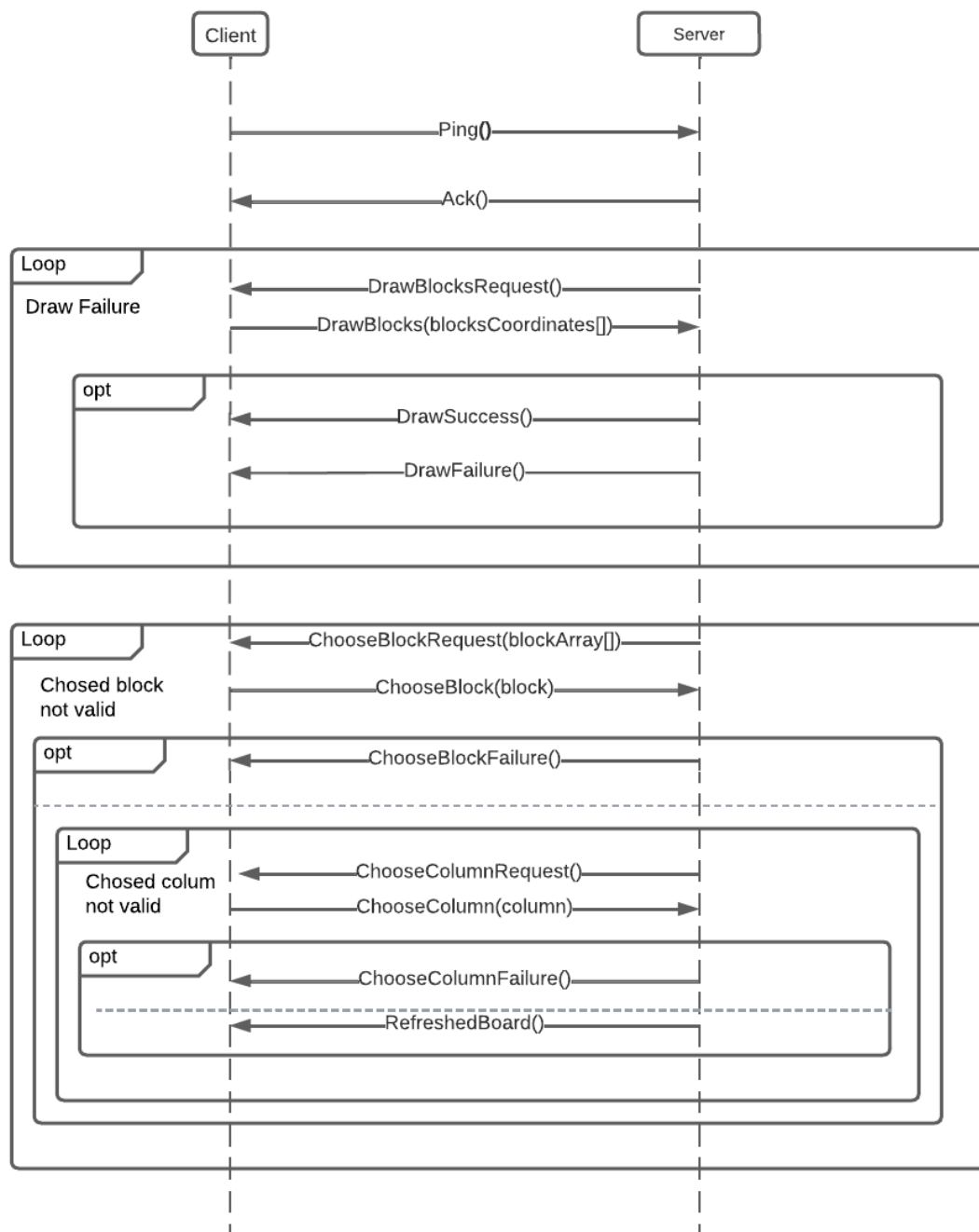
The client sends this message to join an already existing match, it includes the nickname of the client.

1.2.3 AccessMatchSuccess()

Message sent by the server to the client if the request to join is accepted.

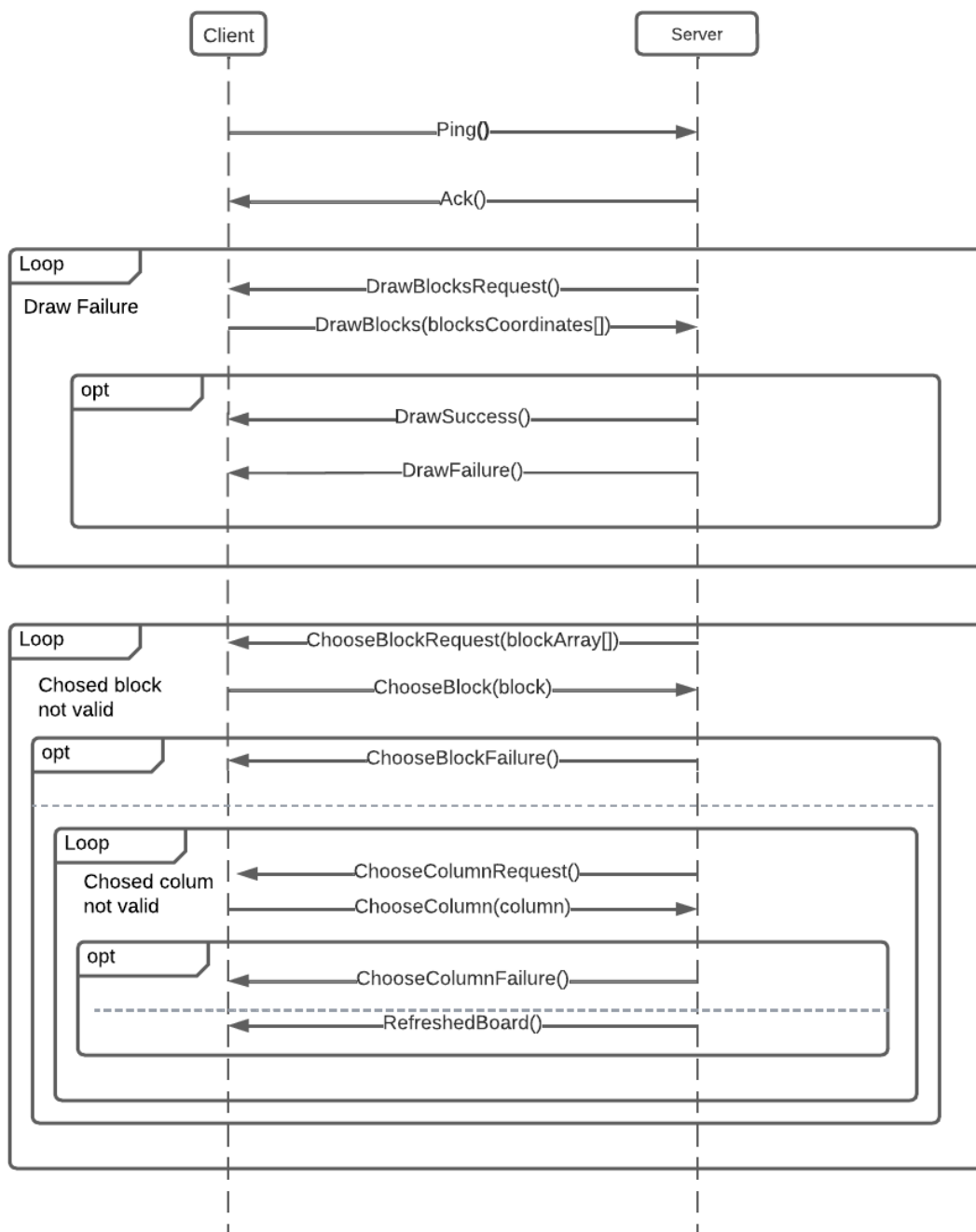
1.2.4 AccessMatchFailure()

Message sent by the server to the client if the request to join isn't accepted.



2 Draw Block and add to Library.

In this step, the player chooses which squares to draw from the board and places them in their preferred order in the library



2.3 DrawBlocksRequest()

Sends the player a request to choose which Objects they would like to draw from the game board that was already sent to the screen earlier

2.4 DrawBlocks(blocksCoordinates[])

The player chooses the blocks to be drawn and communicates them through their corresponding coordinates, stored in an array

2.5 DrawSuccess()

If the boxes the player has selected reflect the rules, then the server communicates the success of the draw

2.6 DrawFailure()

If the boxes cannot be drawn, then the player is notified of the failure and the DrawBlocksRequest() command is returned

2.7 ChooseBlockRequest(blockArray[]).

Asks player which of the drawn blocks to insert

2.8 ChooseBlock(block)

Returns to the Server the chosen block to be inserted into the library

2.9 ChooseBlockFailure()

Tells the player that the choice they made is invalid and to try again

2.10 ChooseColumnRequest()

Asks the player in which column to insert the previously chosen block

2.11 ChooseColumn(column).

Returns to the Server the column in which to insert the block

2.12 ChooseColumnFailure()

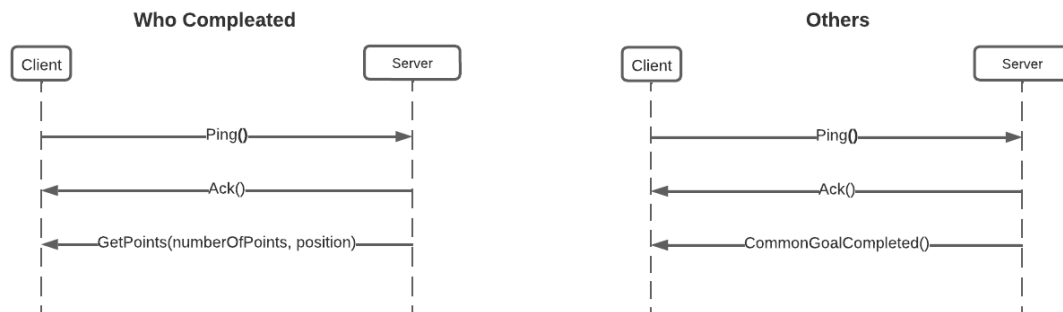
Tells the player that the choice they made is invalid and to try again

2.13 RefreshedBoard()

Successfully draws tiles, the board is refreshed for everyone

3 Common Goal completed

In this step one of the players complete a common goal. The scheme is divide in two cases : the case in which the client is the player that has completed the common goal, and the case in which the client is another player.



3.1.1 Ping()

The Ping message is used to inform the Server of the effective presence of the client.

3.1.2 Ack()

Ack messages are always sent in response to Ping messages.

3.1.3 GetPoints(numberofPoints,position)

The server tells to the player the number of points that he earns thanks the completion of the common goal.

3.2.1 Ping()

The Ping message is used to inform the Server of the effective presence of the client.

3.2.2 Ack()

Ack messages are always sent in response to Ping messages.

3.2.3 CommonGoalComplete()

The server tells to all the others players that the one player has completed a common goal.