Comunication protocol

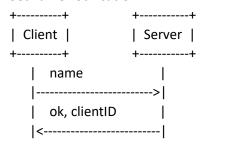
For the message exchange we used java serialization. The notification classes implements Serializable and NotificationInterface, that is composed by 3 methods:

- void accept(NotificationVisitor v) used by ClientUpdater (client) and ModelUpdater (server) for executing the methods of the serialized class using visitor pattern.
- void setClientID(int clientID) for setting the clientID.
- int getClientID() let the server know which client sent the notification and the client if the notification is supposed to call the class methods or if it is an update of the game state.

All the notifications from the server to the clients (except for setName, move, build, elimination, disconnection, win) request the reply only from the client with the same clientID as the one stored in the notification.

The notifications are:

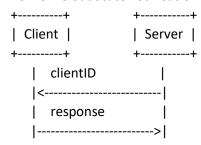
SetNameNotification



Client: send the name to the server

Server: if the name is valid, send the setNameNotification with ok = true and the ClientID of the client, otherwise ok = false and the client send another name

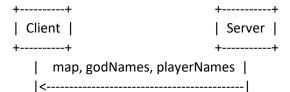
AskForReloadStateNotification



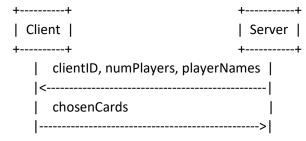
Server: send the AskForReloadStateNotification

Client: reply with the boolean response

LoadGameNotification



ChooseCardListNotification



Server: send all the informations that the client need to know for choosing the cards

Client: reply with the list of chosen cards

Choo	eCardNotification	
+ Cli +	t Server Client: reply with the chosen card	
	clientID, availableCards	
 	chosenCard >	
First	sitioningNotification	
+ Cli +	Server names of the chosen gods and the	e
	clientID, availablePositions, godNames, loadPos the client has to do the first	
- - -	chosenPositions positioning, otherwise it has to render the workers of clientID in availablePositions	
Choo	Client: send the list of chosen positions eWorkerNotification	
+		
Cli	t Server Client: send the position of the chosen worker	
-	clientID, availableWorkers	
İ	 chosenWorker >	
SetP	verNotification	
Cli	+ ++ Client: set isPower to true if he wants to use the god's power out Server + ++	
 -	clientID 	
 	isPower >	
Choo	ePosNotification	
+ Cli	+ ++ Server: send all the available positions Server Client: reply with the chosen position	
+	+ ++	
]	clientID, availablePositions 	
į	chosenPos	

MoveNotification +----+ Server: send the movements to all the clients. The movement has | Client | | Server | the old and the new position of the worker +----+ +----+ | movements | |<-----| BuildNotification +----+ +------ Server: send the position, the height of the block built, | Client | | Server | isDome = true if it is a dome +----+ +----+ position, height, isDome |<-----| DisconnectionNotification +----+ +----+ Server: send the message to show | Client | | Server | Client: show the message and close the connection +----+ | message | |<-----| EliminationNotification +----+ +----+ Server: send the id of the eliminated client, | Client | | Server | his name and the positions of his +----+ +----+ workers Client: show a message and deletes the | clientID, playerName, eliminatedWorkers | workers from the table WinNotification +----+ Server: send the id and the name of the winner | Client | Client: show a message and closes the connection | Server |

+----+

| clientID, playerName | |<-----

+----+