5. ALLEGATO 1. Specifiche delle operazioni

Di seguito le specifiche sui messaggi scambiati tra il client e il server per ogni operazione. Il formato dei messaggi in JSON indicato è obbligatorio (tutti gli elementi indicati devono essere presenti e con la chiave specificata), ma possono essere aggiunti elementi opzionali se necessario.

Operazione	Formato dati	
	Richiesta	**Risposta**
register	```{ "operation": "register", "values": { "username": STRING, "password": STRING } }```	```{ "response": NUMBER, "errorMessage": STRING }``` Fixed codes for response: 100 - OK 101 - invalid password 102 - username not available 103 - other error cases
updateCredentials	```{ "operation": "updateCredentials", "values": { "username": STRING, "old_password": STRING,```	```{ "response": NUMBER, "errorMessage": STRING }``` Fixed codes for response:

	"new_password": STRING
	}
	}
		100 - OK
		101 - invalid new password
		102 -
		username/old_password
		      mismatch or non
		      existent username
		103 - new password equal
		to
		      old one
		104 - user currently
		logged
		      in
		105 - other error cases

login	{
	    "operation": "login",
	    "values":
	    {
	        "username": STRING,
	        "password": STRING
	    }
	}
		{
		    "response": NUMBER,
		    "errorMessage": STRING
		}
		
		Fixed codes for response:
		100 - OK
		101 - username/password
		      mismatch or non
		      existent username
		102 - user already logged
		in
		103 - other error cases

logout	{
	    "operation": "logout",
	    "values":
	    {
	    }
	}
		{
		    "response": NUMBER,
		    "errorMessage": STRING
		}
		
		Fixed codes for response:
		100 - OK
		101 - ~~username/connection~~
		      ~~mismatch or non~~
		      ~~existent username or~~
		      user not logged in
		or
		      other error cases

insertLimitOr
der
	{
	    "operation": "insertLimitOrder",
	    "values":
	    {
	        "type": STRING(ask/bid),
	        "size": NUMBER,
	        "price": NUMBER
	    }
	}
		{
		    "orderId": NUMBER(or -1
		to represent an error)
		}

insertMarketOrder	{
	    "operation": "insertMarketOrder",
	    "values":
	    {
	        "type": STRING(ask/bid),
	        "size": NUMBER
	    }
	}
		{
		    "orderId": NUMBER(or -1
		to represent an error)
		}

insertStopOrder	{
	    "operation": "insertStopOrder",
	    "values":
	    {
	        "type": STRING(ask/bid),
	        "size": NUMBER,
	        "price": NUMBER
	    }
	}
		{
		    "orderId": NUMBER(or -1
		to represent an error)
		}

cancelOrder	{
	    "operation": "cancelOrder",
	    "values":
	    {
	        "orderId": NUMBER
	    }
	}
		{
		    "response": NUMBER,
		    "errorMessage": STRING
		}
		
		Fixed codes for response:
		100 - OK
		101 - order does not exist
		or
		        belongs to different
		        user or has already
		        been finalized or
		other
		        error cases

getPriceHistory	{
	    "operation": "getPriceHistory",
	    "values":
	    {
	        "month": STRING(MMYYYY)
	    }
	}
		To be defined by the
		student

Invio notifica trade(s) evaso(/i)	{
	    "notification": "closedTrades",
	    "trades": [
	        {
	            "orderId": NUMBER,
	            "type":
	            STRING(ask/bid),
	            "orderType":
	            STRING(limit,
	            market, stop)
	            "size": NUMBER,
	            "price": NUMBER,
		Nessuna risposta

| | ```
        "timestamp":
        NUMBER(epoch time
        format)
    }, …
  ]
}
``` | |