

Testdokumentation

Starten des Servers

```
java Server
```

```
Server running on Port 7777
```

Starten eines Clients

```
java Client
```

```
=====
Enter a command:
```

SAVE-Request

SAVE Dies ist ein Test.

Ausgabe auf Client-Seite:

```
=====
Enter a command:
SAVE Dies ist ein Test.
Connected to Server: localhost:7777
=====
Response from Server: KEY 341efd8d-dcf5-4a31-84f0-daabde9647e7
=====

=====
Enter a command:
```

Ausgabe auf Server-Seite:

```
=====
Client-request received
=====
Client port: 63558
```

```
Command: SAVE
Request Body:
Dies ist ein Test.
=====
Sending response: KEY 341efd8d-dcf5-4a31-84f0-daabde9647e7
=====
```

Inhalt des **Messages**-Ordner:

```
\Desktop\Messages> ls

Mode                LastWriteTime         Length Name
----                -
-a----           11.01.2022   17:46           18 341efd8d-dcf5-4a31-84f0-
daabde9647e7.txt
```

GET-Request: gespeicherte Nachricht anfragen

GET 341efd8d-dcf5-4a31-84f0-daabde9647e7

Ausgabe auf Client-Seite:

```
=====
Enter a command:
GET 341efd8d-dcf5-4a31-84f0-daabde9647e7
Connected to Server: localhost:7777
=====
Response from Server: OK Dies ist ein Test.
=====

=====
Enter a command:
```

Ausgabe auf Server-Seite:

```
=====
Client-request received
=====
Client port: 63593
Command: GET
Request Body:
341efd8d-dcf5-4a31-84f0-daabde9647e7
=====
Sending response: OK Dies ist ein Test.
=====
```

Speichern weiterer Nachrichten:

SAVE test1

SAVE test2

Client-Ausgabe:

```
=====
Enter a command:
save test1
Connected to Server: localhost:7777
=====
Response from Server: KEY f07f9fa9-7f31-4229-945d-f1c933ecf728
=====

=====
Enter a command:
save test2
Connected to Server: localhost:7777
=====
Response from Server: KEY 38fbeffb-fc91-46fd-96c4-762b913315b5
=====
```

Server:

```
=====
Client-request received
=====
Client port: 56189
Command: SAVE
Request Body:
test1
=====
Sending response: KEY f07f9fa9-7f31-4229-945d-f1c933ecf728
=====

=====
Client-request received
=====
Client port: 56195
Command: SAVE
Request Body:
test2
=====
Sending response: KEY 38fbeffb-fc91-46fd-96c4-762b913315b5
=====
```

Messages-Verzeichnis:

```
Desktop\Messages> ls
```

| Mode | | LastWriteTime | | Length | Name |
|--------|------------|---------------|----|--|------|
| ---- | | ----- | | ----- | ---- |
| -a---- | 11.01.2022 | 17:46 | 18 | 341efd8d-dcf5-4a31-84f0-daabde9647e7.txt | |
| -a---- | 11.01.2022 | 18:01 | 5 | 38fbeffb-fc91-46fd-96c4-762b913315b5.txt | |
| -a---- | 11.01.2022 | 18:01 | 5 | f07f9fa9-7f31-4229-945d-f1c933ecf728.txt | |

Lesen der Nachrichten:

```
GET f07f9fa9-7f31-4229-945d-f1c933ecf728
```

```
=====
Enter a command:
GET f07f9fa9-7f31-4229-945d-f1c933ecf728
Connected to Server: localhost:7777
=====
Response from Server: OK test1
=====
```

```
=====
Client-request received
=====
Client port: 58189
Command: GET
Request Body:
f07f9fa9-7f31-4229-945d-f1c933ecf728
=====
Sending response: OK test1
=====
```

```
GET 38fbeffb-fc91-46fd-96c4-762b913315b5
```

```
=====
Enter a command:
GET 38fbeffb-fc91-46fd-96c4-762b913315b5
Connected to Server: localhost:7777
=====
Response from Server: OK test2
=====
```

```
=====
Client-request received
=====
Client port: 58196
Command: GET
Request Body:
38fbeffb-fc91-46fd-96c4-762b913315b5
=====
Sending response: OK test2
=====
```

Verhalten im Fehlerfall

Nicht unterstützte Methode (nicht SAVE/GET)

```
=====
Enter a command:
PRINT test
Connected to Server: localhost:7777
=====
Response from Server: BAD REQUEST
=====

=====
Enter a command:
```

Ausgabe auf Server-Seite:

```
=====
Client-request received
=====
Client port: 56126
Command: PRINT
Request Body:
test
=====
Sending response: BAD REQUEST
=====
```

GET mit falschem Key

GET 341efd8d-dcf5-4a31-84f0-falsch

Client-Ausgabe:

```
=====
Enter a command:
GET 341efd8d-dcf5-4a31-84f0-falsch
Connected to Server: localhost:7777
=====
Response from Server: FAILED
=====
```

```
=====
Enter a command:
```

Server-Ausgabe:

```
=====
Client-request received
=====
Client port: 56145
Command: GET
Request Body:
341efd8d-dcf5-4a31-84f0-falsch
=====
Sending response: FAILED
=====
```

GET ohne Key

GET

Client-Ausgabe:

```
=====
Enter a command:
GET
Connected to Server: localhost:7777
=====
Response from Server: FAILED
=====

=====
Enter a command:
```

Server-Ausgabe:

```
=====
Client-request received
=====
Client port: 56162
Command: GET
Request Body:

=====
Sending response: FAILED
=====
```

Client-Request bei nicht gestartetem Server

```
=====
Enter a command:
SAVE test
Could not connect to the Server: Connection refused: connect: localhost:7777
```

`userIn.readLine()` ergibt `null`

```
=====
Enter a command:
a
Invalid input

=====
Enter a command:
```

`clientRequest / networkIn.readLine()` ergibt `null`

```
=====
Client-request received
=====
Client port: 63674
Command:
Request Body:

=====
Sending response: BAD REQUEST
=====
```

Client sendet leeren String

```
=====
Enter a command:

Connected to Server: localhost:7777
=====
Response from Server: BAD REQUEST
=====
```

Client sended " " (ein Space)

```
=====
Enter a command:

Connected to Server: localhost:7777
=====
Response from Server: BAD REQUEST
=====
```