

Lab3 - RMI

ID	Author	Date
2017303024	Zhang Chunxu	Sat 13 Dec 2019

Key point

2. used **strategy design pattern** to reduce maintenance difficulty, and clear the code.
3. used **stream** operation to provide faster develop process.
4. considered **robustness**.

How to run

Deploy

None

Run

```
# first run your java rmiregistry.
java -jar RmiClient.jar <serverName> <portNumber> <command> [options...]

# example:
java -jar RmiClient.jar run add x x y "2019-12-01_01:00" "2019-12-01_03:00"
MeetingTitle
```

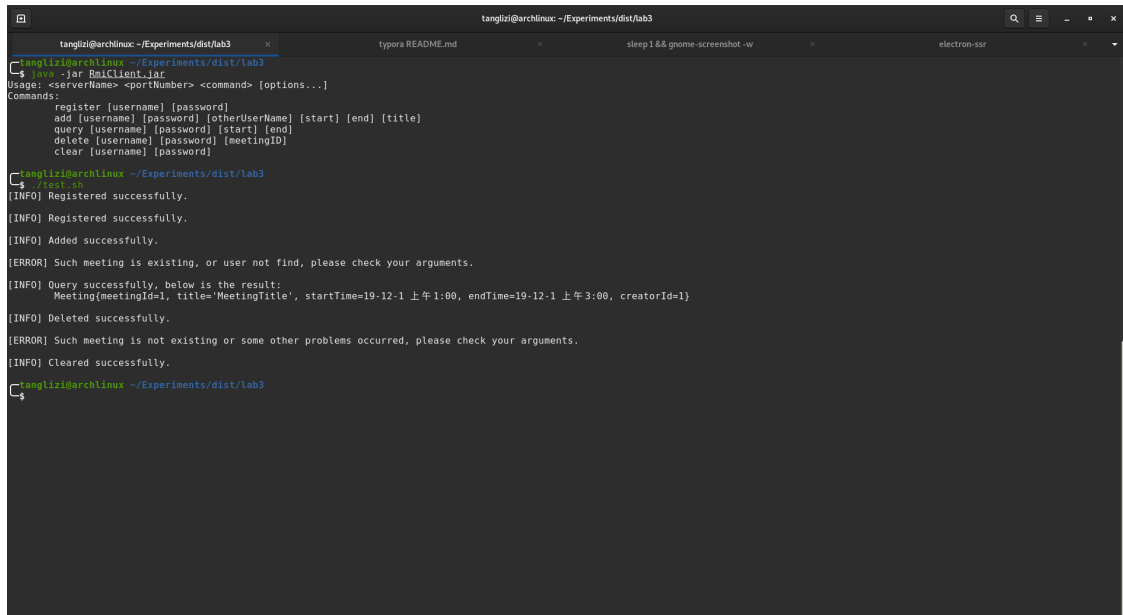
and you can edit `test.sh` file to test it faster.

```
# test.sh sample
function run(){
    java -jar RmiClient.jar localhost 1099 $@
}

run register x x
run register y y
run add x x y "2019-12-01_01:00" "2019-12-01_03:00" MeetingTitle
run add x x y "2019-12-00_01:00" "2019-12-02_03:00" MeetingTitle
run query x x "2019-12-00_01:00" "2019-12-02_01:00"
run delete x x 1
run delete x x 10
run clear x x
```

Demo screen shot

1. print help information and run `test.sh`:

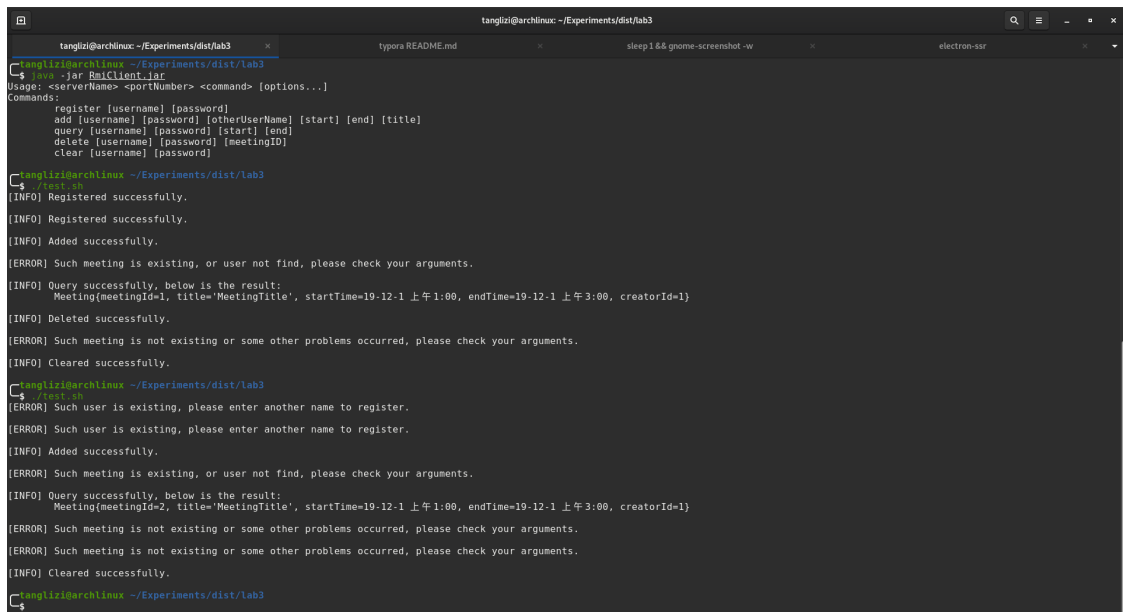


```
tanglizi@archlinux: ~/Experiments/dist/lab3
$ java -jar RmiClient.jar
Usage: <serverName> <portNumber> <command> [options...]
Commands:
    register [username] [password]
    add [username] [password] [otherUserName] [start] [end] [title]
    query [username] [password] [start] [end]
    delete [username] [password] [meetingID]
    clear [username] [password]

tanglizi@archlinux: ~/Experiments/dist/lab3
$ ./test.sh
[INFO] Registered successfully.
[INFO] Registered successfully.
[INFO] Added successfully.
[ERROR] Such meeting is existing, or user not find, please check your arguments.
[INFO] Query successfully, below is the result:
    Meeting(meetingId=1, title='MeetingTitle', startTime=19-12-1 上午1:00, endTime=19-12-1 上午3:00, creatorId=1)
[INFO] Deleted successfully.
[ERROR] Such meeting is not existing or some other problems occurred, please check your arguments.
[INFO] Cleared successfully.

tanglizi@archlinux: ~/Experiments/dist/lab3
$
```

2. run `test.sh` again:



```
tanglizi@archlinux: ~/Experiments/dist/lab3
$ java -jar RmiClient.jar
Usage: <serverName> <portNumber> <command> [options...]
Commands:
    register [username] [password]
    add [username] [password] [otherUserName] [start] [end] [title]
    query [username] [password] [start] [end]
    delete [username] [password] [meetingID]
    clear [username] [password]

tanglizi@archlinux: ~/Experiments/dist/lab3
$ ./test.sh
[INFO] Registered successfully.
[INFO] Registered successfully.
[INFO] Added successfully.
[ERROR] Such meeting is existing, or user not find, please check your arguments.
[INFO] Query successfully, below is the result:
    Meeting(meetingId=1, title='MeetingTitle', startTime=19-12-1 上午1:00, endTime=19-12-1 上午3:00, creatorId=1)
[INFO] Deleted successfully.
[ERROR] Such meeting is not existing or some other problems occurred, please check your arguments.
[INFO] Cleared successfully.

tanglizi@archlinux: ~/Experiments/dist/lab3
$ ./test.sh
[ERROR] Such user is existing, please enter another name to register.
[ERROR] Such user is existing, please enter another name to register.
[INFO] Added successfully.
[ERROR] Such meeting is existing, or user not find, please check your arguments.
[INFO] Query successfully, below is the result:
    Meeting(meetingId=2, title='MeetingTitle', startTime=19-12-1 上午1:00, endTime=19-12-1 上午3:00, creatorId=1)
[ERROR] Such meeting is not existing or some other problems occurred, please check your arguments.
[ERROR] Such meeting is not existing or some other problems occurred, please check your arguments.
[INFO] Cleared successfully.

tanglizi@archlinux: ~/Experiments/dist/lab3
$
```