

Lab2 - HttpServer & HttpClient

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Key point

1. used **thread pool** to implement multi-thread operations.
2. used **strategy design pattern** to reduce maintenance difficulty, and clear the code.
3. used **builder design pattern** to keep HttpRequest and HttpResponse constant, and provide flexible build process.
4. defined **HTTP status** name and corresponding code.
5. considered **robustness**.

How to run

Deploy

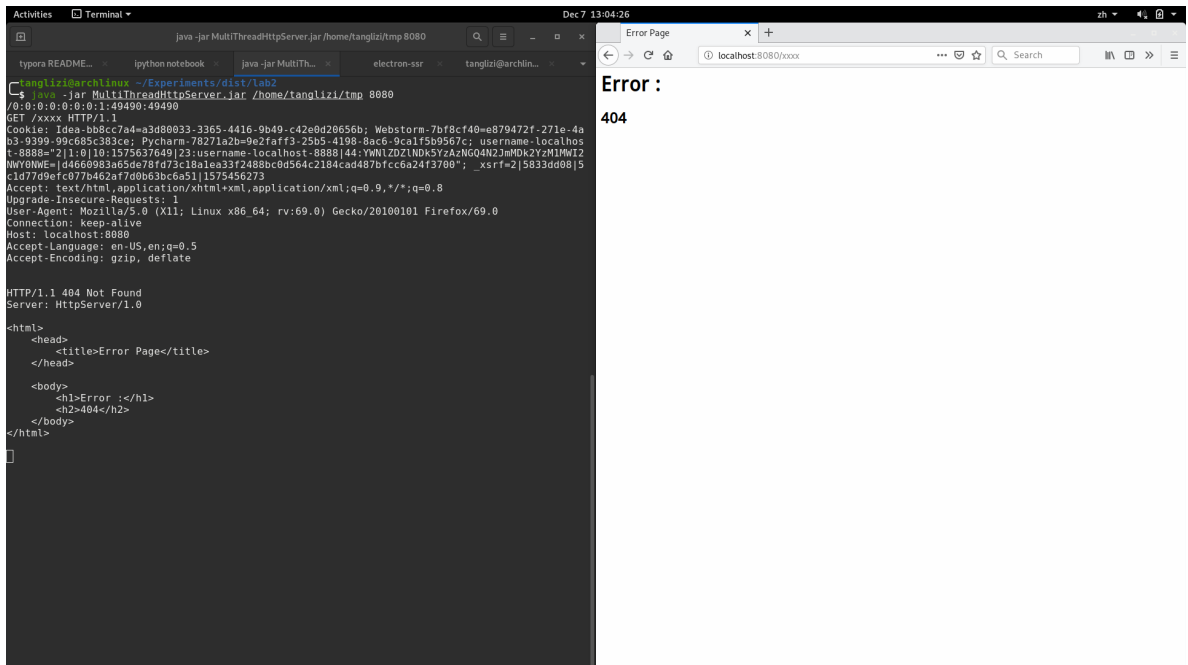
```
mkdir server && cd server
cp ../HttpServer.jar ../MultiThreadHttpServer.jar .
vim 404.html 403.html # please write your own error pages.
vim index.html # write the HTML page, which you want to visit.
cd ..
```

Run

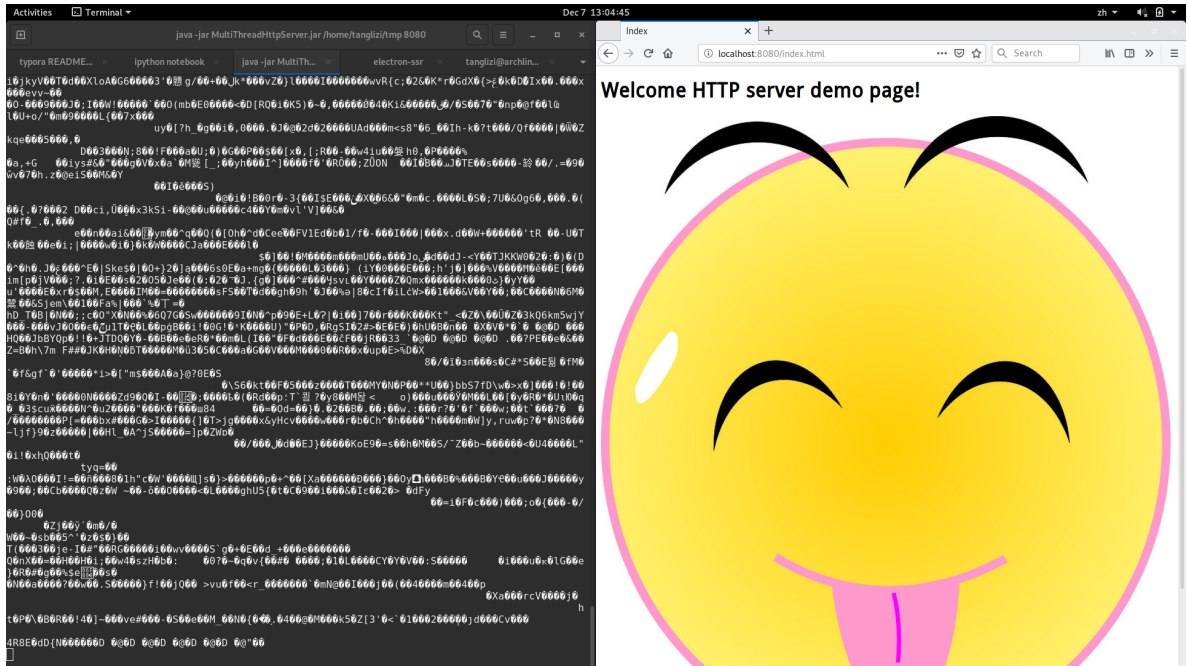
```
# run single thread HTTP server (open default 80 port need permission on linux):
sudo java -jar HttpServer.jar ./server/
# or specify port instead of default 80 port
java -jar HttpServer.jar ./server/ 8080
# or run multiple threads HTTP server:
sudo java -jar MultiThreadHttpServer.jar ./server/
```

Demo screen shot

1. get a not existed page:



2. get index.html



3. get file.txt

