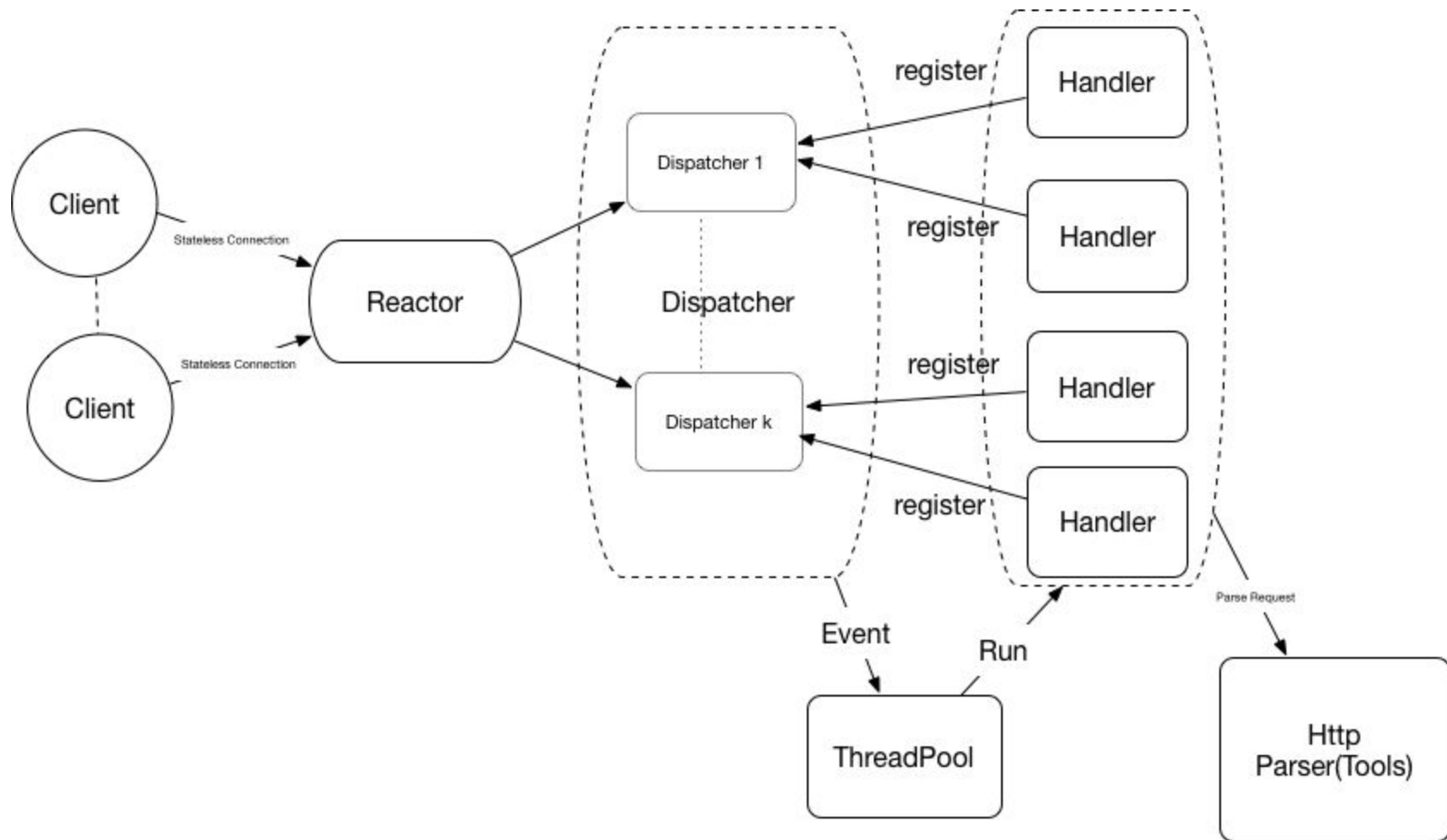1. The program structure is depicted below and it uses the reactor pattern.
2. Reactor accepts the connection from the client.
3. Dispatcher monitors the events and distributes the event to the handler by the threadpool.
4. Handler process the request.
5. Http parser is a tool to parse the http request.
6. After process the request and response, the connection is close.
7. The program is based on Java NIO.

Client

Client

Stateless Connection

Stateless Connection

Reactor

Dispatcher 1

Dispatcher

Dispatcher k

register

Handler

register

Handler

register

Handler

register

Handler

Event

Run

Parse Request

ThreadPool

Http
Parser(Tools)

Run Jar

1. httpserver.jar is the jar file of the server. [ ] means options. The dictionary webroot should be put into the same dictionary with httpserver.jar.

Run it : java -jar httpserver.jar serverIP port [NumberOfDispetcher   NumOfThreadforEachDispetcher]

E.g. java -jar httpserver.jar   128.178.158.110 8000 4 10

Or just java -jar httpserver.jar   128.178.158.110 8000

2. httpclient.jar is to test the server. [ ] means options

You can use : java -jar httpclient.jar serverIP port [NumberOfSendingThreads]

E.g. java -jar httpclient.jar 128.178.158.110 8000 1000000

Or just java -jar httpclient.jar 128.178.158.110 8000