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

register

register

register

Handler

Handler

Handler

Handler

Event

Run

ThreadPool

Parse Request

Http
Parser(Tools)