TRƯỜNG ĐẠI HỌC XÂY DỰNG HÀ NỘI

**KHOA CÔNG NGHỆ THÔNG TIN**

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**BÁO CÁO ĐỒ ÁN**

**Lập trình hệ thống mạng**

**Giảng viên hướng dẫn: ThS. Bùi Thanh Phong**

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**Đề tài: HTTP Server (version 1)**

**Lớp quản lý: 64MHT1**

**Thứ tự nhóm: Nhóm 11**

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**Đề tài: Chương trình HTTP server (version 1)**

# Phát biểu bài toán

* Xây dựng chương trình HTTP server (version 1) để kết nối và giao tiếp với các HTTP clinet sử dụng giao thức HTTP và thực hiện các yêu cầu từ client. Ở đồ án này sử dụng phương thức lệnh là: GET và HEAD, các phương thức khác (POST, PUT ,DELETE,…) thì phản hồi báo lỗi Server không hỗ trợ.
* Lập trình HTTP Server thực hiện các chức năng sau:
* Chức năng quản trị start/stop/restart server.
* Chấp nhận kết nối từ Client, mỗi kết nối chỉ xử lý 1 request.
* Chức năng xử lý các yêu cầu (các lệnh) gửi tin từ phía Client đến.

# Mô tả sơ bộ giao thức HTTP

## Mục đích của giao thức HTTP

* HTTP (Hypertext Transfer Protocol) là một giao thức ứng dụng được sử dụng để truyền tải dữ liệu qua mạng Internet. Giao thức này hoạt động trên cơ sở phương thức yêu cầu/phản hồi (request/response) giữa máy khách (client) và máy chủ (server). Mỗi yêu cầu HTTP đều bao gồm một tiêu đề yêu cầu (request header) và một phần thân yêu cầu (request body). Tương tự, mỗi phản hồi HTTP cũng bao gồm một tiêu đề phản hồi (response header) và một phần thân phản hồi (response body).
* HTTP sử dụng cổng -80 (Port 80) là chủ yếu.
* HTTP là một stateless protocol. Hay nói cách khác, request hiện tại không biết những gì đã hoàn thành trong request trước đó.
* HTTP cho phép tạo các yêu cầu gửi và nhận các kiểu dữ liệu, do đó cho phép xây dựng hệ thống độc lập và dữ liệu được chuyển giao.

## Mô hình hoạt động của HTTP Server

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* HTTP tiến hành hoạt động giao tiếp giữa server và máy khách thông qua một loạt các yêu cầu. 3 yêu cầu được dùng nhiều nhất trong quá trình hoạt động của HTTP là GET, POST, HEAD.
  + **HTTP GET**: Loại tin nhắn chỉ bao gồm một đường dẫn gửi đến server. Nó thường chỉ tiếp nhận dữ liệu mà gần như không có những tác dụng khác. Máy chủ sẽ xử lý dữ liệu của URL và gửi phản hồi về cho trình duyệt. Thao tác này được sử dụng khi Client cần lấy toàn bộ nội dung URL.
  + **HTTP HEAD**: Có cách thức hoạt động tương tự như tin nhắn GET, điểm khác biệt duy nhất là máy chủ sẽ phản hồi thông tin về header.

## Các thủ tục chức năng chính trong HTTP

Diagram

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* **Mở kết nối TCP** – Kết nối TCP (Giao thức HTTP dựa trên TCP) trên địa chỉ xác định bởi URL (Uniform Resource Locator) và cổng thường là 80, kết nối này được dùng để gửi các yêu cầu (request) và nhận phản hồi (response). Client có thể mở ra kết nối TCP mới hoặc sử dụng kết nối đang có, có thể tạo ra nhiều kết nối TCP cùng lúc đến server.
* **Gửi HTTP Message (Request)** – HTTP Message chính là nội dung yêu cầu được client tạo ra và gửi đến server. HTTP Message có nội dung text (plain text) mà chúng ta có thể đọc được (người đọc được). Với phiên bản HTTP/2 thì nội dung HTTP Message được bao bọc trong các frame, nó làm cho người không đọc được một cách trực tiếp - tuy nhiên về mặt ý nghĩa nội dung không đổi so với HTTP/1.1.

## Đặc tả cú pháp bản tin

|  |  |  |
| --- | --- | --- |
| Yêu cầu | Cú pháp | Phản hồi |
| GET | GET <URL> HTTP/<version> <CRLF>  <headers>  <CRLF> | HTTP/<version> <status-code> <reason-phrase> <CRLF>  <headers>  <CRLF>  <response-body> |
| HEAD | HEAD <URL> HTTP/<version> <CRLF>  <headers>  <CRLF> | HTTP/<version> <status-code> <reason-phrase> <CRLF>  <headers>  <CRLF> |

Trong đó:

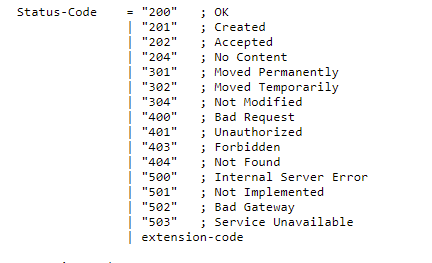
<version>: Phiên bản của giao thức HTTP được sử dụng.

<URL>: Địa chỉ URL của tài nguyên được yêu cầu.

<CRLF>: Ký tự kết thúc dòng.

<headers>: Tiêu đề HTTP của yêu cầu, bao gồm các thông tin về tài nguyên được truy cập, định dạng, kích thước, v.v.

<status-code>: Mã trạng thái HTTP trả về.



<reason-phrase>: Mô tả ngắn gọn về mã trạng thái trả về.

<response-body>: Nội dung của tài nguyên được yêu cầu, có thể là văn bản, hình ảnh, video, v.v.

# Mô tả phiên bản làm việc ứng dụng thử nghiệm Nginx

* Tải nginx và lưu vào ổ C
* Để cho phép Nginx xử lý các yêu cầu HEAD và GET có thể chỉnh sửa trong file nginx.conf như sau

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* Lưu file lại sau đó khở động nginx bằng cách vào thư mục nginx và gõ cmd vào đường dẫn như sau:



* Tiếp theo đó gõ lệnh start nginx

A screenshot of a computer

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* Sau đó chúng ta thực hiện lệnh GET bằng lệnh “curl -X GET http://localhost” và HEAD là lệnh “curl -I -X HEAD http://localhost” thì server sẽ trả về như sau

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A screen shot of a computer

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# Mô tả thiết kết chương trình

## USE CASE tổng thể

Diagram

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## USE CASE 1 : START SERVER

Điều kiện ban đầu :

* Server chưa hoạt động

Mô tả :

1. Admin gửi bản tin Start để khởi động chương trình

2. Server nhận bản tin và xử lý

2.1 Server phân tích lệnh và tham số trong bản tin

2.2 Server xử lý và thực hiện lệnh

2.3 Server tạo bản tin phản hồi (response) và gửi cho Client

Điều kiện kết thúc :

* Server hoàn thành xử lý lệnh
* Client nhận được bản tin phản hồi là server đã hoạt động

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## USE CASE 2 : STOP SERVER

Điều kiện ban đầu :

* Server hoạt động bình thường

Mô tả :

1. Admin gửi bản tin Stop để tắt chương trình

2. Server nhận bản tin và xử lý

2.1 Server phân tích lệnh và tham số trong bản tin

2.2 Server xử lý và thực hiện lệnh

2.3 Server tạo bản tin phản hồi (response) và gửi cho Client

Điều kiện kết thúc :

* Server hoàn thành xử lý lệnh
* Client nhận được bản tin phản hồi là đã tắt chương trình

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## USE CASE 3 : RESTART SERVER

Điều kiện ban đầu :

* Server hoạt động bình thường

Mô tả :

1. Admin gửi bản tin Restart để khởi động lại chương trình

2. Server nhận bản tin và xử lý

2.1 Server phân tích lệnh và tham số trong bản tin

2.2 Server xử lý và thực hiện lệnh

2.3 Server tạo bản tin phản hồi (response) và gửi cho Client

Điều kiện kết thúc :

* Server hoàn thành xử lý lệnh
* Client nhận được bản tin phản hồi

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## USE CASE 4 : Open a New Session

Điều kiện ban đầu :

* Server hoạt động bình thường

Mô tả

1 Client gửi 1 yêu cầu thiết lập kết nối

2 Server nhận yêu cầu và xử lý

2.1 Server chấp nhận , thiết lập kết nối và tạo ra socket

2.2 Server tạo ra luồng mới thực thi phiên làm việc Client

2.3 Server tiếp tục lắng nghe yêu cầu kết nối

Kết thúc :

-Server lắng nghe yêu cầu kết nối

- Luồng mới thực thi phiên làm việc với Client :nhận yêu cầu , xử lý và phản hồi

![Diagram

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TYsRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA1OjEyIDAzOjMyOjIyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5MQAAkpIAAgAAAAM5MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## USE CASE 5 : Handle Request

Điều kiện ban đầu :

* Server đang hoạt động bình thường
* Client đã kết nối và 1 phiên HTTP được thiết lập

Mô tả :

1. Client gửi 1 bản tin yêu cầu (request)

2. Server nhận bản tin và xử lý

2.1 Server phân tích lệnh và tham số trong bản tin

2.2 Server xử lý và thực hiện lệnh

2.3 Server tạo bản tin phản hồi (response) và gửi cho Client

Điều kiện kết thúc :

* Server hoàn thành xử lý lệnh
* Client nhận được bản tin phản hồi

Diagram

Description automatically generated

Triển khai cụ thể hơn trình tự thực hiện Use case 5 với các lớp hỗ trợ

A picture containing text, diagram, line, parallel

Description automatically generated

**Các Use Case mở rộng của Use Case 5 , xử lý các lệnh của Client theo giao thức HTTP**

#### Use Case 5.1: Handle GET request <<extend>> Use Case 5

Điều kiện ban đầu:

* Server đang hoạt động bình thường
* Client đã kết nối và có 1 phiên HTTP được thiết lập

Mô tả :

1. Client gửi bản tin yêu cầu chứa lệnh GET

2. Server nhận bản tin , phân tích và xác định lệnh GET

2.1 Server kiểm tra xem đường dẫn có hợp lệ không . Nếu không hợp lệ thì sẽ tạo bản tin phản hồi mã “404…” và chuyển sang bước 2.4.

2.2 Nếu đường dẫn hợp lệ thì sẽ kiểm tra xem file có đúng không . Nếu không hợp lệ sẽ tạo bản tin mã “404…”và chuyển sang bước 2.4

2.3 Nếu hợp lệ sẽ tạo bản tin phản hồi mã “200…” và chuyển sang bước 2.4

2.3 Server phản hồi lại cho Client.

Điều kiện kết thúc :

* Server hoàn thành xử lý
* Client nhận được bản tin phản hồi

Diagram

Description automatically generated

#### Use Case 5.2 : Handle HEAD request <<extend>> Use Case 5

Điều kiện ban đầu :

* Server đang hoạt động bình thường
* Client đã kết nối và có 1 phiên HTTP được thiết lập

Mô tả :

1. Client gửi bản tin yêu cầu chứa lệnh HEAD

2. Server nhận bản tin, phân tích và xác định lệnh HEAD

2.1 Server kiểm tra xem đường dẫn có hợp lệ không . Nếu không hợp lệ thì sẽ tạo bản tin phản hồi mã “404…” và chuyển sang bước 2.4.

2.2 Nếu đường dẫn hợp lệ thì sẽ kiểm tra xem file có đúng không . Nếu không hợp lệ sẽ tạo bản tin mã “404…”và chuyển sang bước 2.4.

2.3 Nếu hợp lệ sẽ tạo bản tin phản hồi mã “200…” và chuyển sang bước 2.4.

2.4 Server phản hồi lại cho Client.

Điều kiện kết thúc :

* Server hoàn thành xử lý
* Client nhận được bản tin phản hồi

Diagram

Description automatically generated

## USE CASE 6: doUnknown

Điều kiện ban đầu :

* Server đang hoạt động bình thường
* Client đã kết nối và có 1 phiên HTTP được thiết lập

Mô tả :

1. Client gửi bản tin yêu cầu chứa lệnh khác HEAD và GET

2. Server nhận bản tin , phân tích và xác định lệnh

2.1 Server phản hồi lại cho Client “505 HTTP Version Not Supported”.

A picture containing text, screenshot, diagram, parallel

Description automatically generated

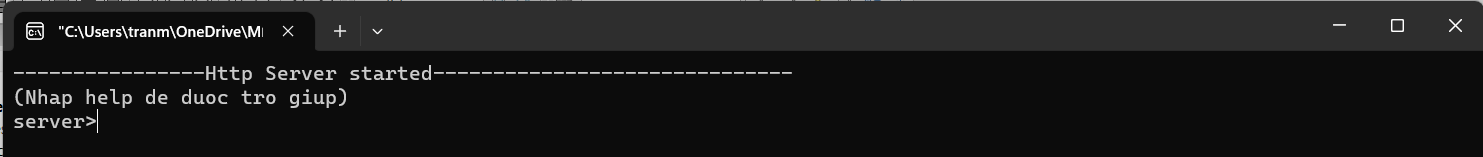
## Sơ đồ Class

## A diagram of a server Description automatically generated with low confidence

# Chạy chương trình

## Phần Server

B1: Chạy chương trình bằng codeblock ta được



B2: Gọi lệnh “help” để xem các lệnh của server

A picture containing text, screenshot, multimedia software, software

Description automatically generated

B3: Gọi lệnh “status” để kiểm tra trạng thái của server

A picture containing text, screenshot, software, multimedia software

Description automatically generated

B4: Gọi lệnh “stop” để tắt server

A picture containing text, screenshot, software, multimedia software

Description automatically generated

B5: Gọi lệnh “status” để kiểm tra trạng thái của server tại thời điểm hiện tại

A screenshot of a computer

Description automatically generated with medium confidence

B6: Gọi lệnh “start” để bật lại server

A screenshot of a computer

Description automatically generated with medium confidence

B7: Kiểm tra lại lần nữa trạng thái của server sau khi bật server lên bằng lệnh “status”

A screenshot of a computer program

Description automatically generated with medium confidence

B8: Trường hợp khởi động server bị lỗi do cổng 80 đã bị sử dụng ở 1 nơi khác

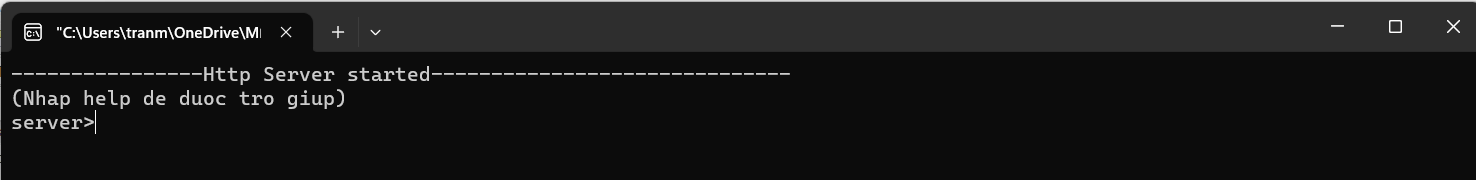


=> Cách giải quyết: đổi cổng sử dụng từ 80 sang 8080 bằng cách chỉnh sửa cổng từ 80->8080 trong thư viện httpserver.h

A screenshot of a computer

Description automatically generated with medium confidence

=> chạy lại server ta thấy server hoạt động lại bình thường



## Phần Client

B1: Sử dụng telnet làm client và mở cổng 80 bằng lệnh “open localhost 80” và nhấn enter

A picture containing text, screenshot, multimedia software

Description automatically generated

* Nếu cổng đang sử dụng là 8080 thì ta đổi từ 80 thành 8080 bằng lệnh: “open localhost 8080” và nhấn enter

A picture containing text, screenshot

Description automatically generated

B2: Sau khi kết nối thành công tới server ta thực hiện gọi hàm GET và HEAD bằng 2 lệnh sau:

GET : “get http/2 localhost/xinchao.txt”

A screenshot of a computer

Description automatically generated with medium confidence

HEAD: “head http/2 localhost/hello.html’

A screenshot of a computer

Description automatically generated with medium confidence

B3: Trường hợp không phải 2 lệnh Get là Head. Giả sử sử dụng lệnh Post thì server trả về

A black screen with white text

Description automatically generated with low confidence

# Kết luận

* Kết quả: Đã vận dụng được kiến thức Lập trình hệ thống mạng cơ bản trên lớp để xây dựng được một server đơn giản.
* Hạn chế:
* Còn nhiều thiếu sót trong thiết kế và lập trình
* Giao diện dòng lệnh còn đơn giản

# Tài liệu tham khảo

* Tài liệu RFC 1945
* Slide bài giảng môn lập trình hệ thống mạng của thầy Bùi Thanh Phong
* SMTP Server