



UNIVERSITY OF DHAKA

Department of Computer Science and Engineering

CSE-3111 : Computer Networking Lab

Lab Report X : Title

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Submitted On :

February 2, 2023

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1 Introduction

The preliminary objective of this lab is to create a simple file transferring system using Hyper Text Transfer Protocol(HTTP) protocol .Through HTTP protocol client requests for a file from server and server sends corresponding file to the client.

1.1 Objectives

Write down two or three specific objectives of this lab experiment.

- state objective one here - what do you design and implement here
- state objective two here - what do you test here, name the tool to use for the test
- state objective three here - what do you analyze or evaluate

2 Theory

HTTP (Hypertext Transfer Protocol) is a communication protocol which is used to send data from one program to another over the INTERNET. Usually at one end of the data transfer is a server and at the other end is a client. The client is often browser-based which means the task is executed via an INTERNET browser. The server actually binds to a host and port. It makes an exclusive connection to an IP address and a port number given in the program. Then the server starts to listen to the requests that have been made from the clients.

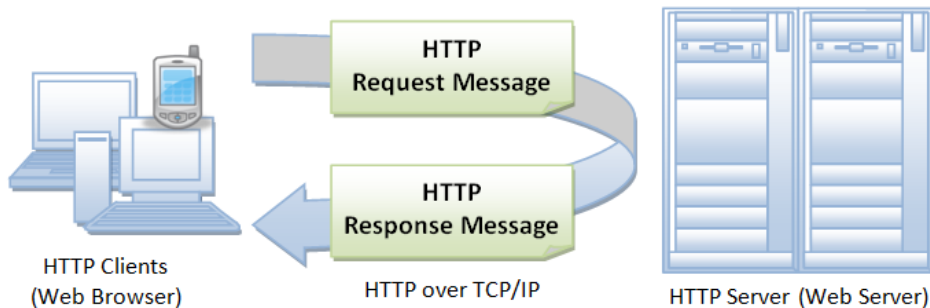


Figure 1: HyperText Transfer Protocol

3 Methodology

3.1 Server

In the server side when we turn it on it will wait for any HTTP request. If it gets any request then it will establish a connection.

After setting up the connection, it receives an http query corresponding to which file client requested. Then it will read bytes from that file and send it to the client.

3.2 Client

Here our client side is any web browser. We will enter IP address of our server and the port number. Then an HTTP request will be sent from our browser to the server.

We will see links to some files that the server provided. If we click any of them we can download them in our pc.

4 Experimental result

Some Snapshots of the Client Side queries can be seen in the following figures:



Figure 2: Content of Server

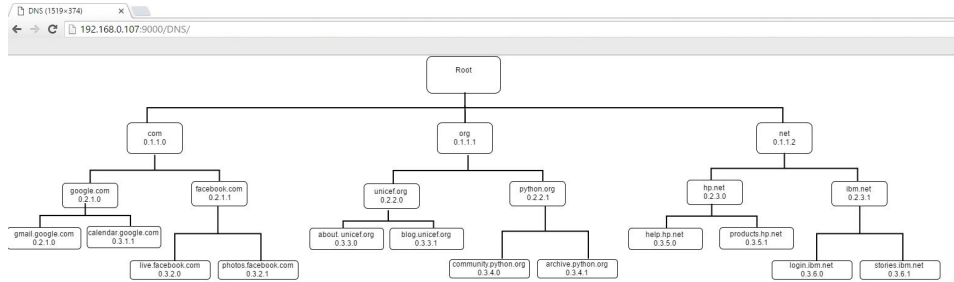


Figure 3: Client Side View after successful request

5 Experience

1. We had to see some examples of how to use HttpServer package in Java
2. We used html tags for the first time to create the links.

References

- [1] Computer networking : a top-down approach 6th ed.
- [2] StackOverflow : <http://stackoverflow.com/>
- [3] HTML Codes : <http://www.w3schools.com/>