Department of Computer Science and Engineering
Islamic University of Technology (IUT)
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Laboratory Report

CSE 4412 : Data Communication and Networking Lab

Name : **Azmayen Fayek Sabil**
Student ID : **190042122**
Section : **CSE (SWE)**
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Title: Understanding the basics of OSI layers.

Objective:

1. Use the cisco packet tracer simulator to observe HTTP events..
2. Use the event details to check different tasks at different layers,
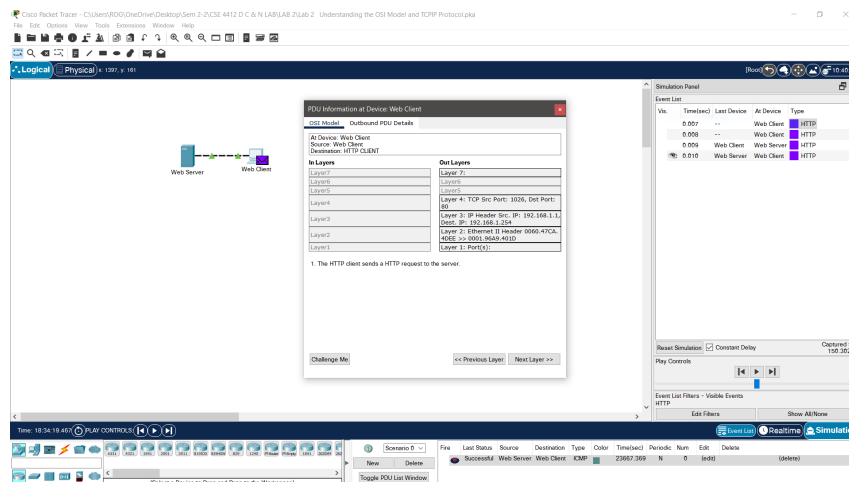
Devices/ software Used:

1. A desktop PC
2. Cisco Packet Tracer

Working Procedure:

Following steps are taken to complete the Experiment :
1. First I added a web server and an end device.
2. Then I hovered over the end device and went to the desktop menu, from which I clicked on the web-browser.
3. Then opened simulation mode and edited the filters to only HTTP.
4. In the event info, noticed the http layers and noted down all the http events that occured.

Diagram of the experiment:

Observation:

At the time of exploring the contents of HTTP packets from the event list, I observed there are four HTTP events taking place. I found notable findings in each of the event and explanation of the findings are listed below: (see the PT Activity window and answer the questions noted there in respective events)

1st HTTP Event: The HTTP clients send a HTTP request to Domain Name Server.

2nd HTTP Event: The server responded back to the client side.

3rd HTTP Event: The server responded back to the client side.

4th HTTP Event: The client side showed the HTTP request.

Challenges:

1. First challenge was to create an account in cisco.
2. Then I found it difficult to understand Cisco packet tracer and it's components. It was overwhelming in the beginning.
3. I had to struggle to set up the simulation environment and made the right changes in the environment.
4. It was hard to understand what all the events meant.