**Background**

Background University of Scholars, is an enterprise like East West University, owns many computers, with a complex network infrastructure. Apart from wired internet access to all the classrooms, labs, employee PCs, library and other administrative and academic wings, the university also provides wireless internet access for every campus. On top of that the university runs complex networked systems to support several of its business processes like admissions, advising, results, eTender, library management, accounts and so on.

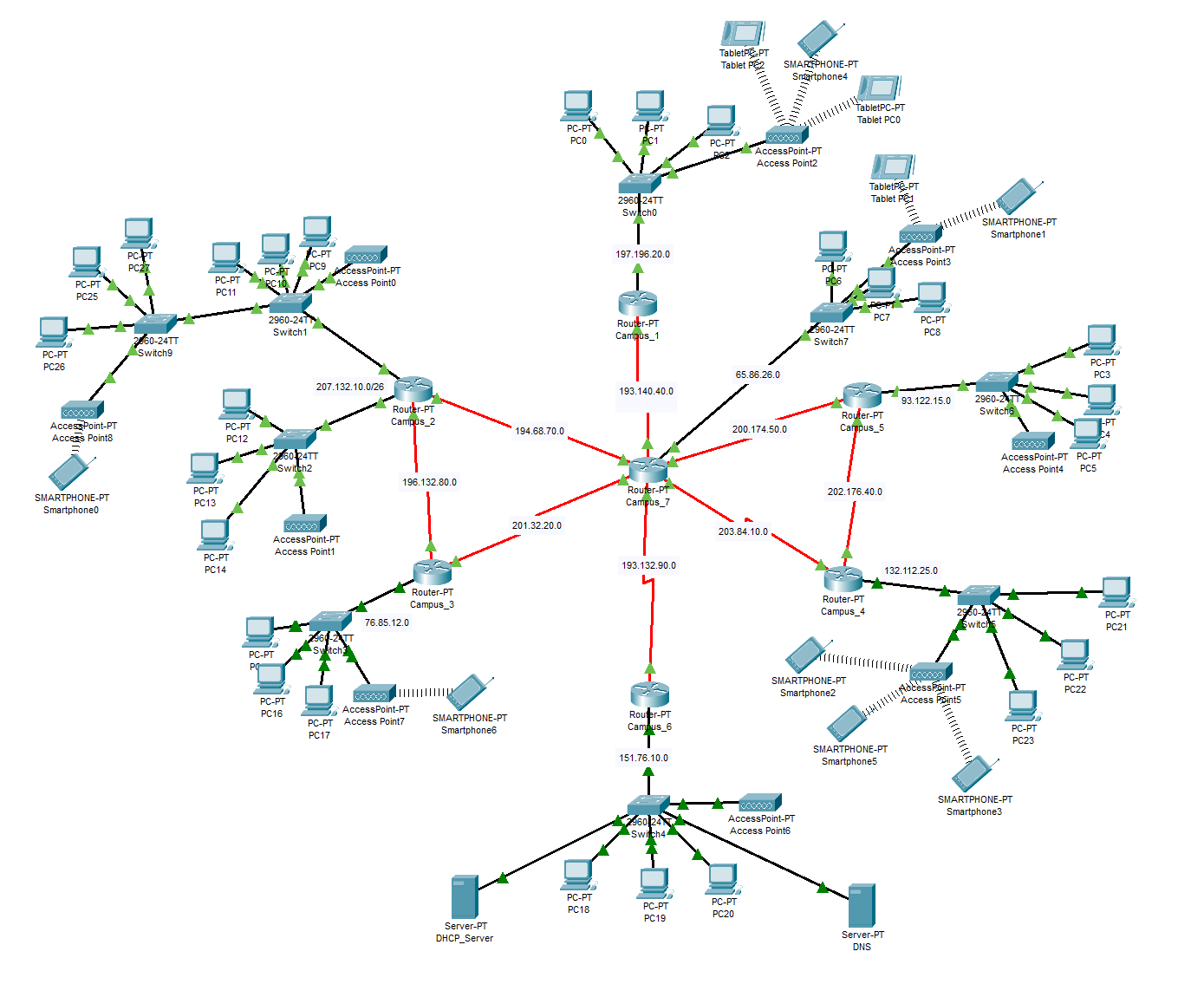
This complex network infrastructure is subnetted and switching/routing mechanisms are in practice.

**Introduction**

I have created a complete model of a complex network by discovering the interconnectivity of the systems and subnetworks which reflects the University’s structure where there are 7 campuses, 1 DHCP server and 1 DNS server that is installed for the purpose of browsing the university website in the devices within the network using the address: <http://www.scholars.edu.bd>. The network is designed in a way that the single DHCP server can assign IP for the hosts of different campuses automatically. Each campus also has wireless hosts added in addition to wired hosts. I have also implemented all 3 classes in the network as well as adding multiple subnets within the campus 2 and connectivity between all hosts has been established.

**Tools And Design Specifications**

* Cisco Packet Tracer 8.2.1
* 7x PT-Router
* 9x Switch (2960)
* 7x Access Point PT
* 27x PC-PT
* 7x Smartphone-PT
* 3x TabletPC-PT
* 1x DHCP Server
* 1x DNS Server
* Connectors (Copper Straight-Through & Serial DTE)

**Network Diagram**

**Figure 1. Network Diagram.**

**Codes For Network Configuration**

**Campus 1:**

interface fa0/0

ip address 197.196.20.254 255.255.255.0

do wr

no shut

exit

interface se2/0

ip address 193.140.40.1 255.255.255.0

do wr

no shut

exit

**Routing Table For Router 1**

router ospf 1

network 197.196.20.0 0.0.0.255 area 1

network 193.140.40.0 0.0.0.255 area 1

exit

**Campus 2:**

interface fa0/0

ip address 207.132.10.35 255.255.255.192

do wr

no shut

exit

interface fa1/0

ip address 207.132.10.65 255.255.255.192

do wr

no shut

ip ospf 2 area 1

exit

interface se2/0

ip address 194.68.70.1 255.255.255.0

do wr

no shut

exit

interface se3/0

ip address 196.132.80.1 255.255.255.0

do wr

no shut

exit

**Routing Table For Router 2**

router ospf 2

network 207.132.10.0 0.0.0.63 area 1

network 196.132.80.0 0.0.0.255 area 1

network 194.68.70.0 0.0.0.255 area 1

exit

**Campus 3:**

interface fa0/0

ip address 76.85.12.254 255.0.0.0

do wr

no shut

exit

interface se3/0

ip address 196.132.80.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se2/0

ip address 201.32.20.1 255.255.255.0

do wr

no shut

exit

**Routing Table For Router 3**

router ospf 3

network 76.85.12.0 0.255.255.255 area 1

network 196.132.80.0 0.0.0.255 area 1

network 201.32.20.0 0.0.0.255 area 1

exit

**Campus 4:**

interface fa0/0

ip address 132.112.25.254 255.255.0.0

do wr

no shut

exit

interface se3/0

ip address 202.176.40.1 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se2/0

ip address 203.84.10.1 255.255.255.0

do wr

no shut

exit

**Routing Table For Router 4**

router ospf 4

network 132.112.25.0 0.0.255.255 area 1

network 202.176.40.0 0.0.0.255 area 1

network 203.84.10.0 0.0.0.255 area 1

exit

**Campus 5:**

interface fa0/0

ip address 93.122.15.254 255.0.0.0

do wr

no shut

exit

interface se2/0

ip address 200.174.50.1 255.255.255.0

do wr

no shut

exit

interface se3/0

ip address 202.176.40.2 255.255.255.0

do wr

no shut

exit

**Routing Table For Router 5**

router ospf 5

network 93.122.15.0 0.0.255.255 area 1

network 202.176.40.0 0.0.0.255 area 1

network 200.174.50.0 0.0.0.255 area 1

exit

**Campus 6:**

interface fa0/0

ip address 151.76.10.254 255.255.0.0

do wr

no shut

exit

interface se2/0

ip address 193.132.90.1 255.255.255.0

do wr

no shut

exit

**Routing Table For Router 6**

router ospf 6

network 151.76.10.0 0.0.255.255 area 1

network 193.132.90.0 0.0.0.255 area 1

exit

**Campus 7:**

interface fa0/0

ip address 65.86.26.254 255.0.0.0

do wr

no shut

exit

interface se3/0

ip address 194.68.70.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se2/0

ip address 193.140.40.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se9/0

ip address 200.174.50.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se8/0

ip address 203.84.10.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se6/0

ip address 201.32.20.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

interface se7/0

ip address 193.132.90.2 255.255.255.0

clock rate 64000

do wr

no shut

exit

**Routing Table For Router 7**

router ospf 7

network 194.68.70.0 0.0.0.255 area 1

network 193.140.40.0 0.0.0.255 area 1

network 200.174.50.0 0.0.0.255 area 1

network 203.84.10.0 0.0.0.255 area 1

network 193.132.90.0 0.0.0.255 area 1

network 201.32.20.0 0.0.0.255 area 1

network 65.86.26.0 0.0.0.255 area 1

exit

**IP helper setup except Campus 2**

interface fa0/0

ip helper-address 151.76.10.55

do wr

no shut

exit

**IP helper setup for Campus 2**

interface fa0/0

ip helper-address 151.76.10.55

do wr

no shut

exit

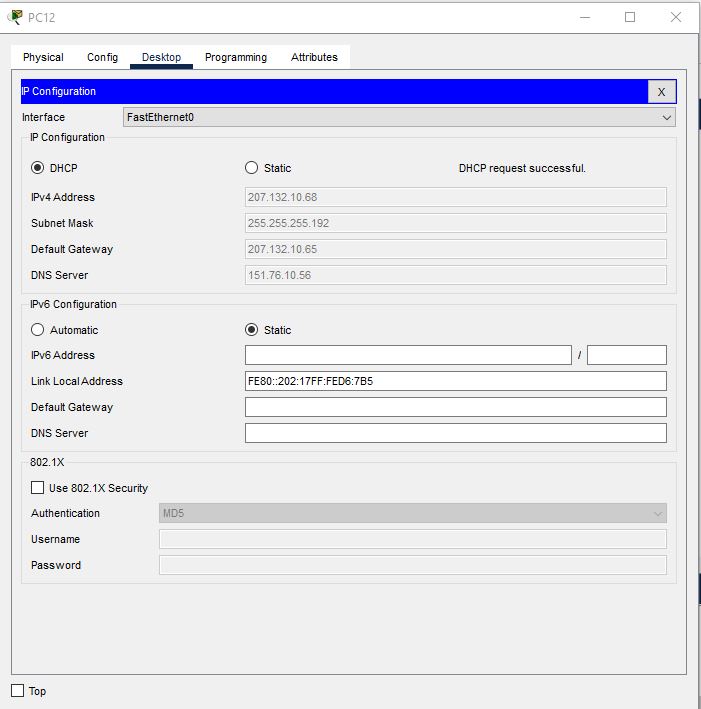
interface fa1/0

ip helper-address 151.76.10.55

do wr

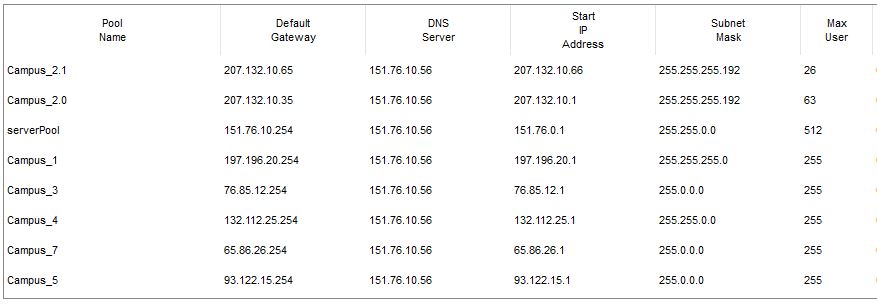
no shut

exit

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**Figure 2. IP Configuration for PC.**

**DHCP Server Configuration**

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**Figure 3. DHCP Server Configuration Table.**

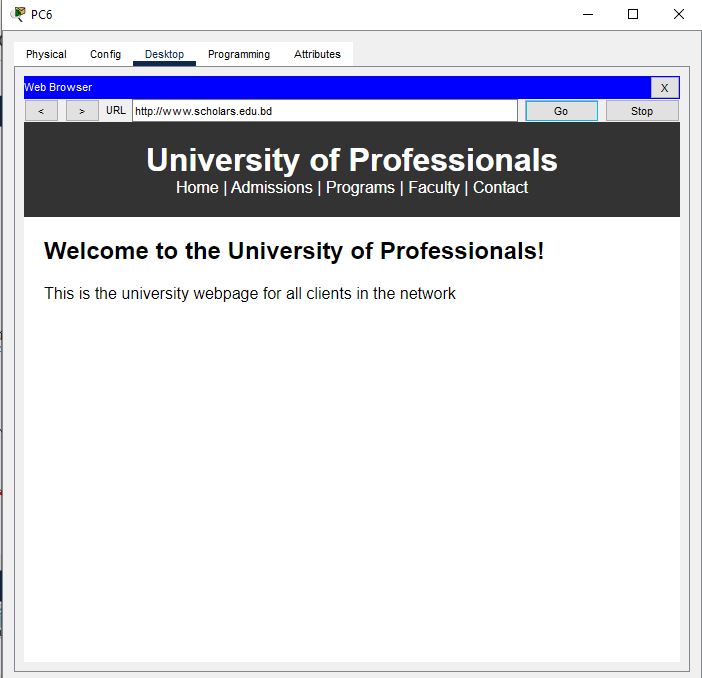
![A screenshot of a computer

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Server Configuration**

**Figure 4. DNS Server Configuration.**

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzOAAAkpIAAgAAAAMzOAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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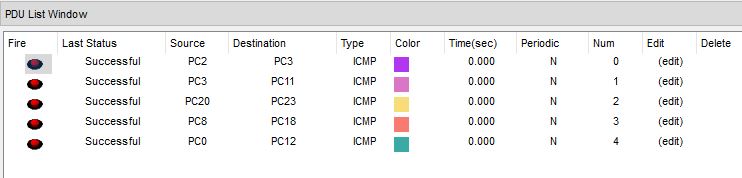


**Figure 5. Webpage Of University of Professionals.**

**Limitations**

Even though the DHCP server can assign IP to all the hosts of different campuses with different IP classes but still there is a max limit of hosts the DHCP server can assign which can be a problem during the expansion of the network since the DHCP will not be able to assign more IP addresses to hosts if the hosts amount crosses the max limit.

**Results**



**Figure 6. Ping Results Between Different Devices.**

**Conclusion**

All the task requirements have been fulfilled in this network and successfully implemented. Though there are still some limitations and design flaws due to lack of experience but still I have tried to optimize and implement everything according to the task requirements.