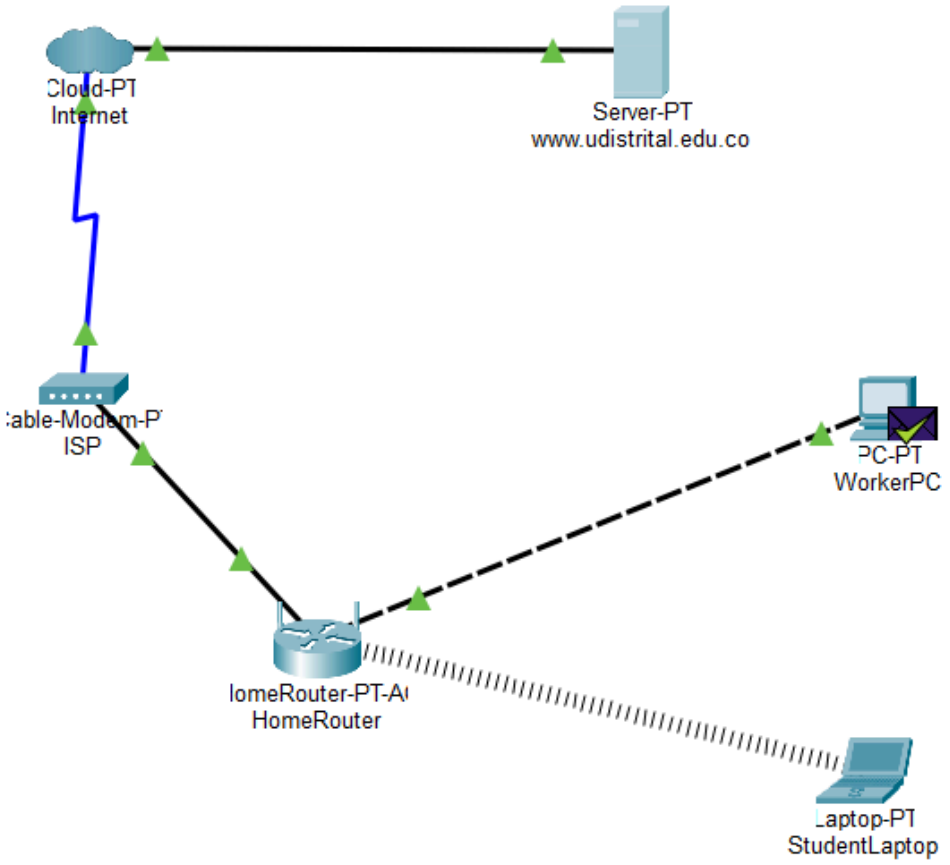
Workshop #1

Computer Networking
Jonathan Castellanos - 20191005100

Network Design



For the network construction, a server (www.udistrital.edu.co) was created to host the landing page of the Universidad Distrital. The domain www.udistrital.edu.co connects to the static IP 193.168.100.200. This server was directly connected to the Internet via a copper cable, as the Internet connection was established in "Cable Mode," meaning that the copper cable was connected to the coaxial Internet line.

An Internet Service Provider (ISP) was added, which connects to the Internet through a coaxial cable. This decision was made because our "Cable Modem" did not have a fiber optic port, which would have been more ideal in this case. Therefore, coaxial cable was chosen, as it guarantees good performance over long distances. The ISP supplies Internet to a local network for a student, and this connection is made through a copper cable since

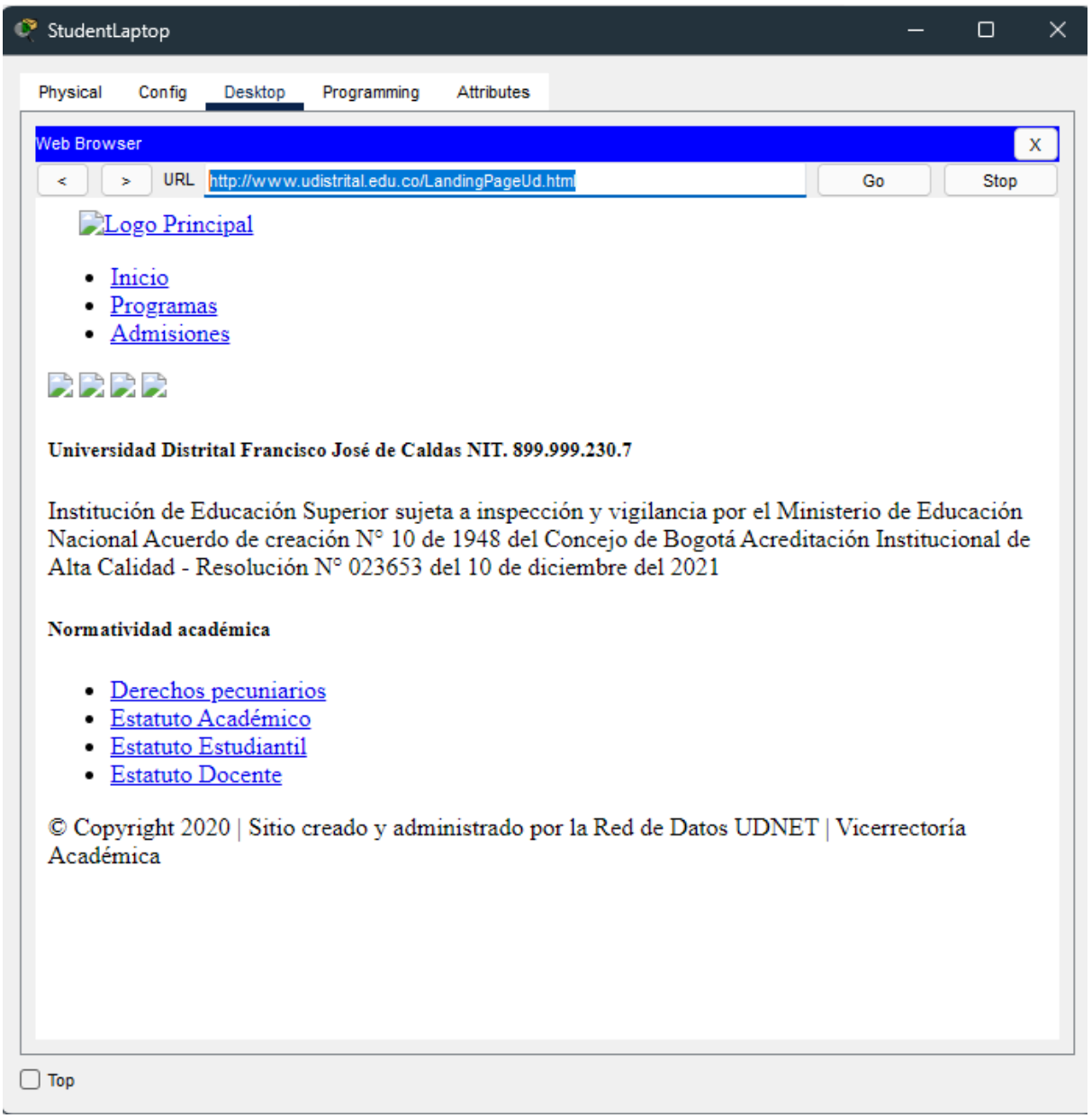
the distance between the provider’s pole and the modem should not pose an issue. The student has a HomeRouter with a laptop and a desktop computer connected to it; the laptop is connected via Wi-Fi, and the desktop is connected using twisted-pair copper cable due to the short distance, making it a cost-effective option.

This network was designed with the purpose of connecting students to the university's landing page.

For the design of the landing page, a mockup of Universidad Distrital was created. The "Materialize" framework was used for the coding, achieved by importing the CDN. This is why we cannot see the styles within the Cisco network. The landing page files, which will be shown below, were added to the server.

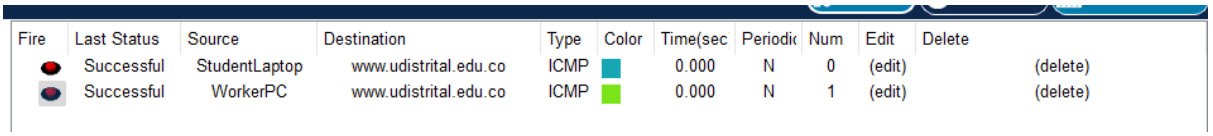
Connectivity tests

Laptop - StudentLaptop



Pc - WorkerPC

Simple PDU - connection test



Fire	Last Status	Source	Destination	Type	Color	Time(sec	Periodi	Num	Edit	Delete
	Successful	StudentLaptop	www.udistrital.edu.co	ICMP		0.000	N	0	(edit)	(delete)
	Successful	WorkerPC	www.udistrital.edu.co	ICMP		0.000	N	1	(edit)	(delete)