Our project is a network design for building G. This building have two floors. Each floor contain 20 computer labs, also each floor carrying 30 student computer, a Terminal PC for the lecturer and 4 extra data outlets for future needs. For the rest of the floor is provided with 4 access points, 4 printers and 6 scanners as service devices for the floor, and for the devices of controlling there are 6 cameras and 4 RFID devices used for attendance. Each category of devices is connected to a switch while the rest of switches in a floor are connected to the main switch of the floor that is connected to the backbone switch which had its location in the data center. The data center is located in the second floor and contains 12 server devices, all of these servers are connected to a farm switch and connected to the backbone switch, these servers consists of 4 E-Learning servers, 2 Application servers, 2 Database servers, 2 Printer servers, an E-Mail server and lastly a Web server, the backbone switch is the parent switch carrying connections of all the main floors switches and also room switches, as it receives it data from the main router that connected to a DSL modem. About the basement floor, it is the location of the security room which 6 PC's screen are allocted to take full cover on all the controlling cameras in each floor for protection and taking care. generally, to have the building secured as much as it can be secured.

