

***DATA COMMUNICATION***

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***NETWORKING (CS-222)***

***LAB PROJECT***

***GROUP MEMBERS***

1. ZUBAIR SHAHID 17B-023-SE
2. SHOAIB AHMED 17B-033-SE
3. SYED MUHAMMAD HUZAIL AKHTER 17B-035-SE
4. HASSAN AHMED SIDDIQUI 17B-049-SE

**PROJECT PROPOSAL**

**ZHAVIA ELECTRONICS LTD. NETWORK SYSTEM**

Zahvia Electronics Ltd. is a new company is going to start operating in Pakistan they are going to have three offices in Karachi in three different buildings with 3 floors in each building. Each building will have a three switches (one for each floor) they require three servers for internal use and three servers. There requirements are given below:

There should be 5 PCs and 1 Laptop in each floor of buildings and total number of employees which are 54. They are a need of 3 different servers for company’s internal functions and all three servers should be accessible in all systems within organization. There is a separate room for server and there is a separate room for Director in building one on 3rd Floor. In third floor of building one so therefore there is a need 6 PCs and 2 Laptops in Building one 3rd Floor system should be able to connect all devices in all parts of building and should be extendable in case of need of new recruits of employees. We need two VLAN System in our building one for Internal Staff and One for External Staff. We require two routers with EIGRP Connections. We require a local telephone system in all three buildings which can be used for internal functions.

**PROJECT REQUIREMENT:**

1. 46 PC’s Connecting through Router & Switches in Multiple Buildings
2. 10 Laptop Connecting through Router & Switches in Multiple Buildings
3. Configuring Switches
4. EIGRP Connection in Routers
5. Connecting 3 Servers
6. Configuring Servers with Router and According To Vlans