**COMPUTER NETWORKS LAB PROJECT**

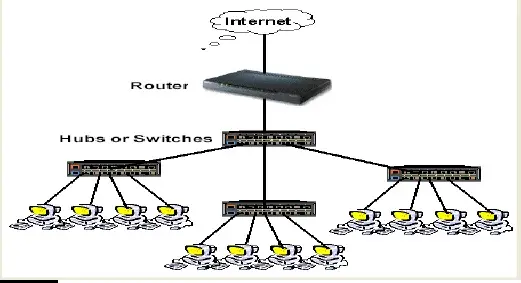
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**INTRODUCTION:**

The Hotel Management System design is about designing a topology of a network that is a LAN (Local Area Network) for a Hotel in which various computers of different departments and buildings are Setup so that they can interact and communicate with each other by interchanging data. To design a network for a Hotel, which connects various departments and buildings to each other’s , it puts forward communication among them. One of the purpose of this system is to reduce isolated users. The systems should be capable of communicating with others and should provide the desired information.

**PROPOSAL:**  
We propose to create a network- by deploying routers, switches and pc`s to connect various departments of a Hotel to communicate and manage data with each other.



**Project Features:**

* This network is based on client-server architecture.
* Tree topology is used here.
* 3 client routers are present for the 3 levels of Hotel and they are associated to a server.
* All the departments are categorized into various LANs, which are connected to the 3 routers based on the sequence in which they are accommodated on the storey.
* Likewise, various departments limited into LANs and share router corresponding to their levels.
* A request is made by any system of any department and it is forwarded to client switch, which furthermore transmits it to the router and then to server.
* Port-securities are there that are executed on various ports of the switches and gives reliability.
* The data is then transferred to its connected router.
* Router serves as DHCP server for assigning IPs to the host computers and also generally routes the data to the desired destination.

**CONCLUSION:**

To Design the network outlook for the community Hotel Management System produces the substructure for all other exposure in the service framework such as security of the network, wireless area network, mobility as well as putting the justification to provide safety and security, operational efficiencies, virtual environments, and secure rooms.