HOTEL NETWORK SYSTEM DESIGN

WHAT IS A HOTEL NETWORK?

A hotel network is the network infrastructure used to deliver networking services to an organization or at a hotel place.

ADVANTAGES OF HOTEL NETWORK

- **Local file/printer services**
- **Internet access: Web browsing, Email**
- **Content delivery**
- **Communication Services: Telephony, Video meetings, remote access from home to local resources**
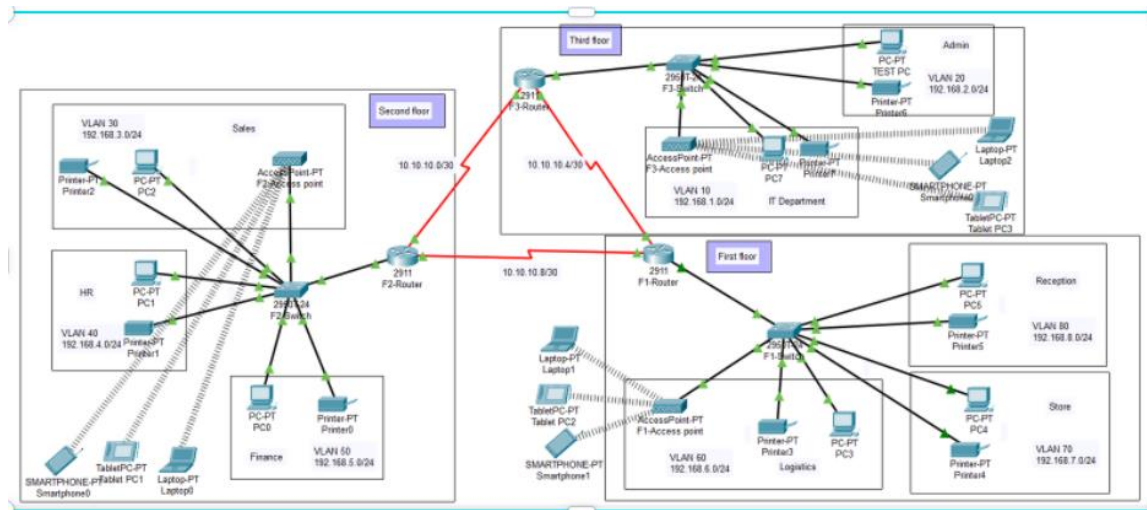- **Connecting to all PCs remotely**

DESIGN BRIEF

The hotel has three floors, on the first floor, there are three departments (reception, store, and logistics), on the second floor there are three departments(finance, HR, and sales/Marketing), while the third floor hosts the IT and admin.

TASK

- There should be three routers connecting each floor (all placed in the server room in the IT department).
- All routers should be connected using a serial DCE cable.
- The network between the routers should be 10.10.10.0/30,10.10.10.4/30,10.10.10.8/30 I
- Each floor is expected to have one switch (placed on the respective floor).
- Each floor is expected to have WIFI networks connected to laptops and phones.
- Each department is expected to have a printer.
- Each department is expected to be in a different VLAN.
- Use OSPF as the routing protocol to advertise routes.

- All devices in the network are expected to obtain an IP address dynamically with their respective router configured as the DHCP server.
- I expect all the devices in the network to communicate with each other.
- Configure SSH in all the routers for remote login.
- In the IT department, add a PC called Test-PC to port pa0/1 and use it to test remote login.

Group member and it's contribution

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