# **Company Business Network System**

### **Submitted By**

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#### MINI LAB PROJECT REPORT

This Report Presented in Partial Fulfillment of the course CSE322: Computer Network Lab in the Computer Science and Engineering Department



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#### > Introduction

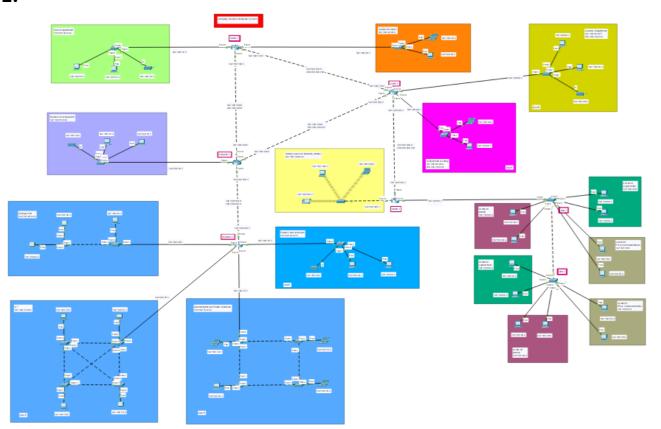
The Company Business Network System is a network project made for a company to connect different departments and help them share data easily. We used VLANs to keep each department safe and separate. The network uses static routing, RIP v2, and OSPF for sending data in the best way. A DHCP server is used to give IP addresses automatically. Some departments also have DNS servers to help find websites. The whole network is made using Cisco Packet Tracer with generic routers and 2950-24 switches to show how it works in real life.

#### > Flowchart

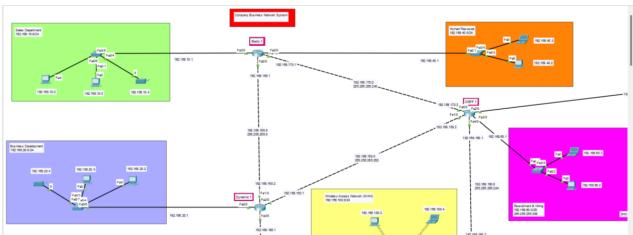


## Snapshot of our project:

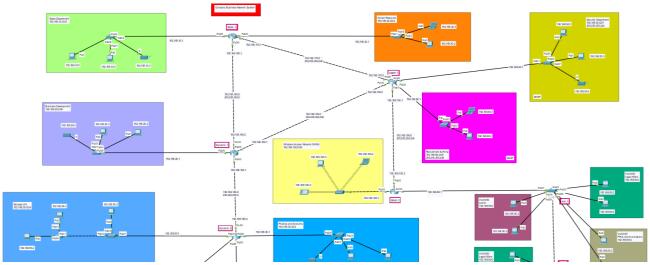
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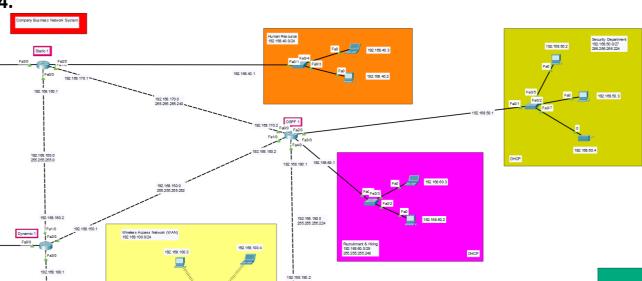


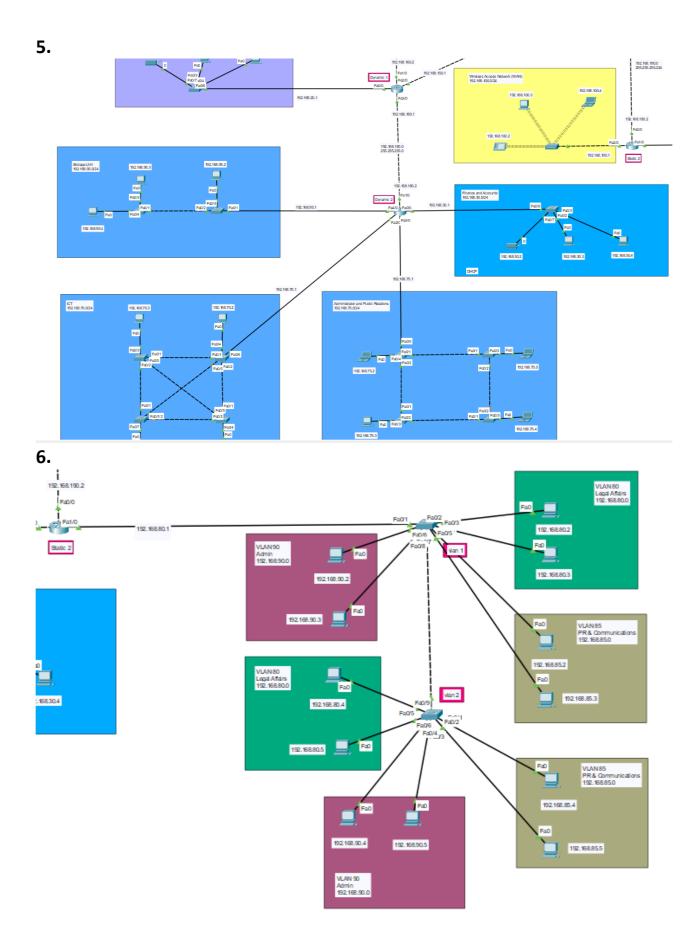


#### 3.



#### 4.





#### > Conclusion

In this project, we designed a company network using Cisco Packet Tracer. Only some departments (with VLAN IDs 80, 85, and 90) are placed in VLANs to keep their data separate and secure. Other departments are connected through normal network segments. Routing methods like static routing, RIP v2, and OSPF are used to send data between departments. A DHCP server gives out IP addresses automatically, and DNS servers help with finding website address. This setup shows how a company network can be built step by step, keeping it both safe and efficient. We learned how different network tools work together to create a real-life network.