

CSE405 Computer Networking Project

Topic:	Data communication in a network
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❖ **Description:** A large corporate campus is expanding its network infrastructure to support five buildings across its premises. The buildings are:

- **Headquarters**
- **Sales Office**
- **Tech Center**
- **Human Resources**
- **Finance Division**

Each building requires its own dedicated **router** to handle internal and inter-building communication. Inside each building, there are **3 client PCs** used by employees, and **5 DHCP servers** that will automatically assign IP addresses. All IP addressing should follow a **Class A scheme** (e.g., 12.0.0.0), with subnetting as needed.

The routers must be interconnected using **OSPF (Open Shortest Path First)** to ensure efficient routing between buildings. A separate **DNS server** and **WEB server** in the **Headquarters** will resolve the domain <http://www.campusnet.com>, which must be accessible from all other buildings via a browser.

You are also required to simulate key corporate business processes (e.g., **employee onboarding, asset management, invoice processing**) using local interfaces or browser-based mock systems on any of the PCs in the network.

❖ **Marks Distribution:**

Assessment Area	Mark
Applying	3
Manipulation	2
Precision	3
Responding	2
Total	10

❖ **Project Report will include:**

1. Problem Statement
2. Design
3. Experimental Results
4. Conclusion