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| **Roll No.** | **SU92-BDSM-F22-003** |
| **Section** | **BSDS-5A** |
| **Session** | **2022 – 2026** |
| **Subject** | **Computer Network LAB** |
| **Instructor** | **Sir Rasikh Ali** |

# **Project Document**

**Organization Name**

Programming Force Software House

**Number of Floors**

4 Floors

**Network Design and Distribution**

**Floor-Wise PC and Server Distribution:**

**1. Floor 1 (Ground Floor - Reception and Admin):**

- Number of PCs: 15

- Number of Servers: 2 (1 Authentication Server, 1 File Server)

**2. Floor 2 (Development and QA):**

- Number of PCs: 30 (20 for Development Team, 10 for QA Team)

- Number of Servers: 1 (Development/Test Server)

**3. Floor 3 (HR and Finance):**

- Number of PCs: 20

- Number of Servers: 1 (HR/Finance Server)

**4. Floor 4 (IT and Support Center):**

- Number of PCs: 25

- Number of Servers: 2 (1 IT Support Server, 1 Backup Server)

**Additional Details for the Network Structure:**

**Network Equipment:**

- Each floor will have a switch connecting the PCs and servers.

- Access points can be considered for wireless connectivity.

**Cisco Packet Tracer Implementation:**

- Add routers, switches, PCs, and servers as outlined.

- Configure IP addressing, VLANs, and routing protocols as necessary.

- Test message travels between floors and devices.

-Apply DNS server

-Security protocols of server