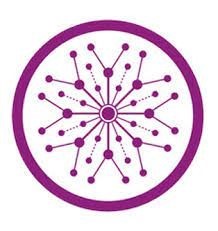
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**Superior University Gold Campus**

**CN LAB Task 10**

Project Document

**Program:**

BS DATA SCIENCE

**Course Name:**

(Computer Network LAB)

**Submitted to:**

Sir Rasikh

**Submitted by:**

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**Roll No:**

(SU92-BSDSM-F22-019)

**Date:**

09/10/2024

**Deliverables Document**

**1. Organization Name**

Hotel Management System

**2. Number of Floors in the Organization**

The organization has **3 floors**:

* **1st Floor**: Reception, Logistics, Store
* **2nd Floor**: HR, Finance
* **3rd Floor**: IT, Admin, Sales

**3. Number of PCs/Servers in the System**

* **PCs**:
  + **1st Floor**: 4 PCs (Reception, Logistics, Store)
  + **2nd Floor**: 2 PCs (HR, Finance)
  + **3rd Floor**: 3 PCs (IT, Admin, Sales)
* **Printers**:
  + **1st Floor**: 4 Printers
  + **2nd Floor**: 2 Printers
  + **3rd Floor**: 2 Printers

#### ****4. Number of Floors in the Organization****

The organization has **3 floors**, each designed for specific departments and functionalities:

* **1st Floor**: Focused on customer-facing operations and logistics. This includes the reception area, logistics department, and storage rooms.
* **2nd Floor**: Dedicated to administrative and financial tasks, housing the HR and Finance departments.
* **3rd Floor**: Primarily for IT operations, administrative offices, and sales management.

Each floor is interconnected through a centralized network infrastructure to ensure seamless communication and resource sharing.

#### ****3. Number of PCs/Servers in the System****

**Total Devices:**

* **PCs**: 9 PCs
  + **1st Floor**:
    - Reception: 1 PC
    - Logistics: 1 PC
    - Store: 2 PCs
  + **2nd Floor**:
    - HR: 1 PC
    - Finance: 1 PC
  + **3rd Floor**:
    - IT: 1 PC
    - Admin: 1 PC
    - Sales: 1 PC
* **Printers**: 8 Printers
  + **1st Floor**: 4 printers strategically placed to serve Reception, Logistics, and Store departments.
  + **2nd Floor**: 2 printers shared between HR and Finance departments.
  + **3rd Floor**: 2 printers for IT, Admin, and Sales teams.

#### ****Additional Infrastructure Details****

* **Network Topology**:  
  A hierarchical network design connects all floors via routers and switches. This ensures efficient communication between departments and allows printers and other resources to be shared.
* **Redundancy**:  
  Routers between floors provide redundancy, ensuring uninterrupted connectivity even during a single point of failure.
* **Scalability**:  
  The network is designed to accommodate additional PCs, printers, and servers as the organization grows.