**Hotel Management System**

**Network Structure:**

The network spans three floors: 1st Floor, 2nd Floor, and 3rd Floor.

Each floor is connected via routers (Cisco 2911 series) and switches (e.g., Cisco 2960-24).

VLANs:

Different VLANs are assigned to departments or functional groups:

VLAN 10 (192.168.1.0/24) - IT

VLAN 20 (192.168.2.0/24) - Admin

VLAN 30 (192.168.3.0/24) - Sales

VLAN 40 (192.168.4.0/24) - HR

VLAN 50 (192.168.5.0/24) - Finance

VLAN 60 (192.168.6.0/24) - Logistics

VLAN 70 (192.168.7.0/24) - Store

VLAN 80 (192.168.8.0/24) - Reception

Equipment:

Each department has PCs and printers connected to switches.

Wireless devices (laptops, smartphones, and tablets) are connected via access points.

Inter-floor communication is facilitated through routers using designated IP subnets.

Redundancy:

The routers are interconnected with redundant links for network reliability, as shown in the red connections.

Purpose:

This setup is ideal for segregating traffic, maintaining security, and ensuring smooth communication between departments.