

**Project Plan**

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| **Subject Name** | **:** | Project Proposal |
| **Project Name** | **:** | Network Design Project for Hospital |
| **Course Code** | **:** | CSE-422 |
| **Course Title** | **:** | Wireless Network Lab |

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**Project Name**: Network Design Project for Hospital

**Introduction:**

Every corporate office's internal communications are managed by its Network System. We need a network design to manage it properly and install an efficient network. This project is focused on Hospital Network Design.

This project is divided into six different categories based on the use of buildings and floors. Those are the **General & Privet Ward, Clinical Area, IT Department, Entrance & Receptions, Lobby, and Parking**.

1. **General Ward:** These are mainly public access to patients from the general ward. This network is never been used for internal communication.
2. **Privet Ward:** These are used for VIP treatment and Cabin services.
3. **Clinical Area:** These are used for Internal clinical works like an emergency ward, Operation theaters, etc. These areas are restricted to staff only.
4. **IT Department:** These areas are restricted to Specific personnel only. This is the admin area for all network systems and control.
5. **Entrance & Reception:** These are other public area for new and release patients and their guests.
6. **Lobby and Parking:** These are is the only outdoor network, specifically used for internal work like CCTV on Parking, Database, and Management for parking. Also, these are the VIP Reception is for some special personals.

Also, all the communication for internal work like scheduling for doctors, patients, nurses, and other staff will be restricted by IT Department, this communication will maintain by directly restricted LAN services, also all CCTV communicates with a different line than this communication. These six categories are mainly used as WIFI. We call the “Internal communication” line for restricted use.

**Requirements:**

**System Requirements**: Operating System: macOS (Monterey or Above), Windows 7 or above, Linux

**Tools Requirements:**

1. **Network Design:** Cisco Packet Tracer
2. **Diagram Tool:** a) yED b: Lucida Chart

**Diagram Design:**

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**Development Phase:**

Here are the details of the development phase:

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| Week No. | Plan Details |
| Week 1 | Project Discussion |
| Week 2 | Project Plan |
| Week 3 | Project Diagram |
| Week 4 | Project Proposal |
| Week 5 | General |
| Week 6 | Privet Ward |
| Week 7 | Clinical Area |
| Week 8 | IT Department |
| Week 9 | Entrance & Receptions |
| Week 10 | Lobby and Parking |

Conclusion:

This project is based on modern hospital needs. We will develop more functions based on the importance and security.