

PROJECT BASED LEARNING ON

HOSPITAL NETWORK DESIGN

GROUP MEMBERS:

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PROBLEM STATEMENT

In our area many Hospital networks are not yet developed to handle critical situations like smoke and fire
So our project is to design the networking of such Hospital in order to enhance the security of the hospital and also the safety of the people

SYSTEM REVIEW

REFERENCES

<https://learningnetwork.cisco.com/s/article/an-interesting-campus-network-with-packet-tracer>

<https://www.imagevisionconsole.s.com/blog/148-the-best-ways-to-improve-hospital-security>

REVIEW (EXISTING SYSTEM)

No use of IOT Devices

Low security system

Absence of DHCP

MODIFICATION

New IOT devices are been added

Security system is been enhanced

Introduction of DHCP

OBJECTIVES



To design a reliable Hospital campus Network



User friendly and easy to handle



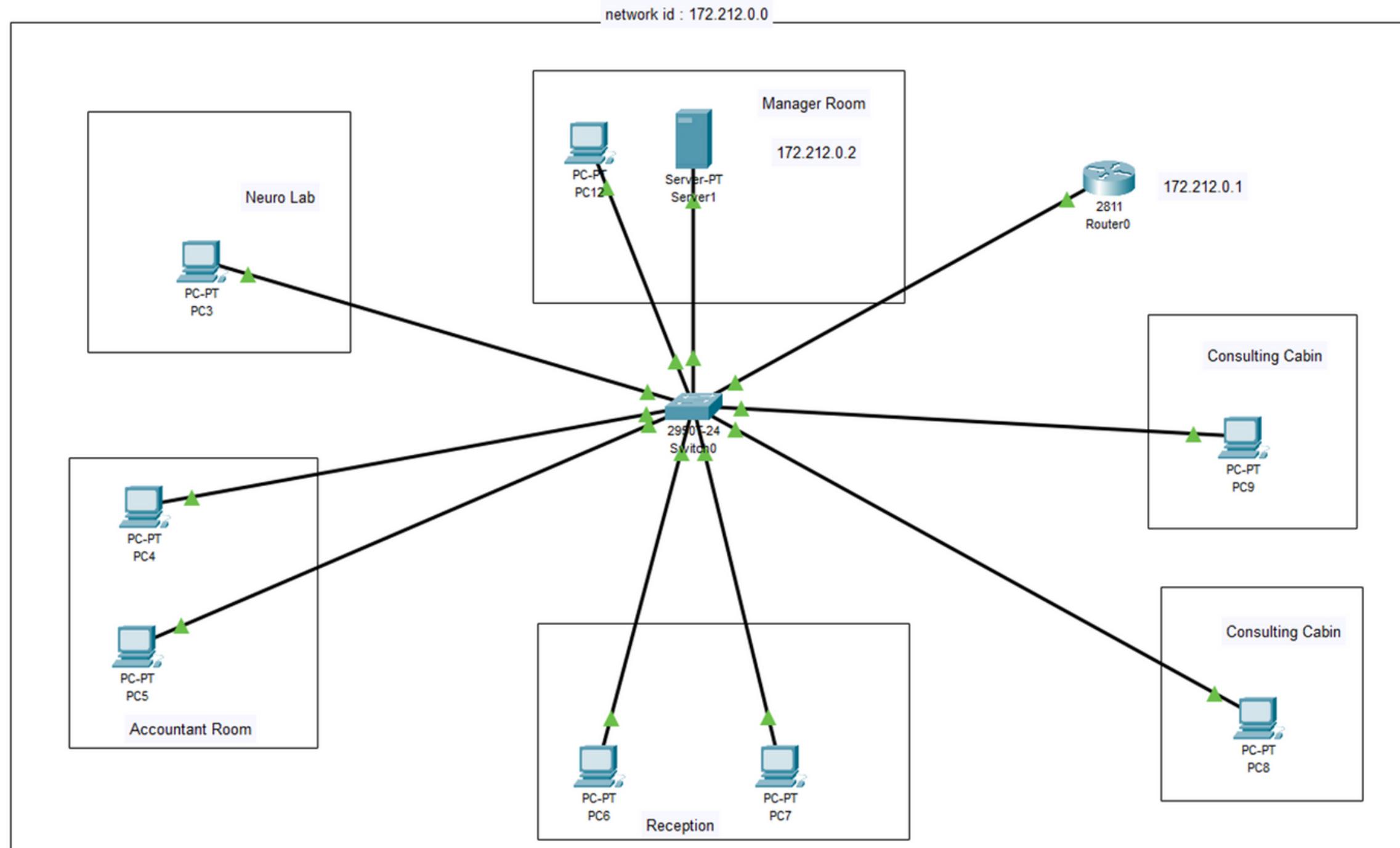
Low cost with low maintenance



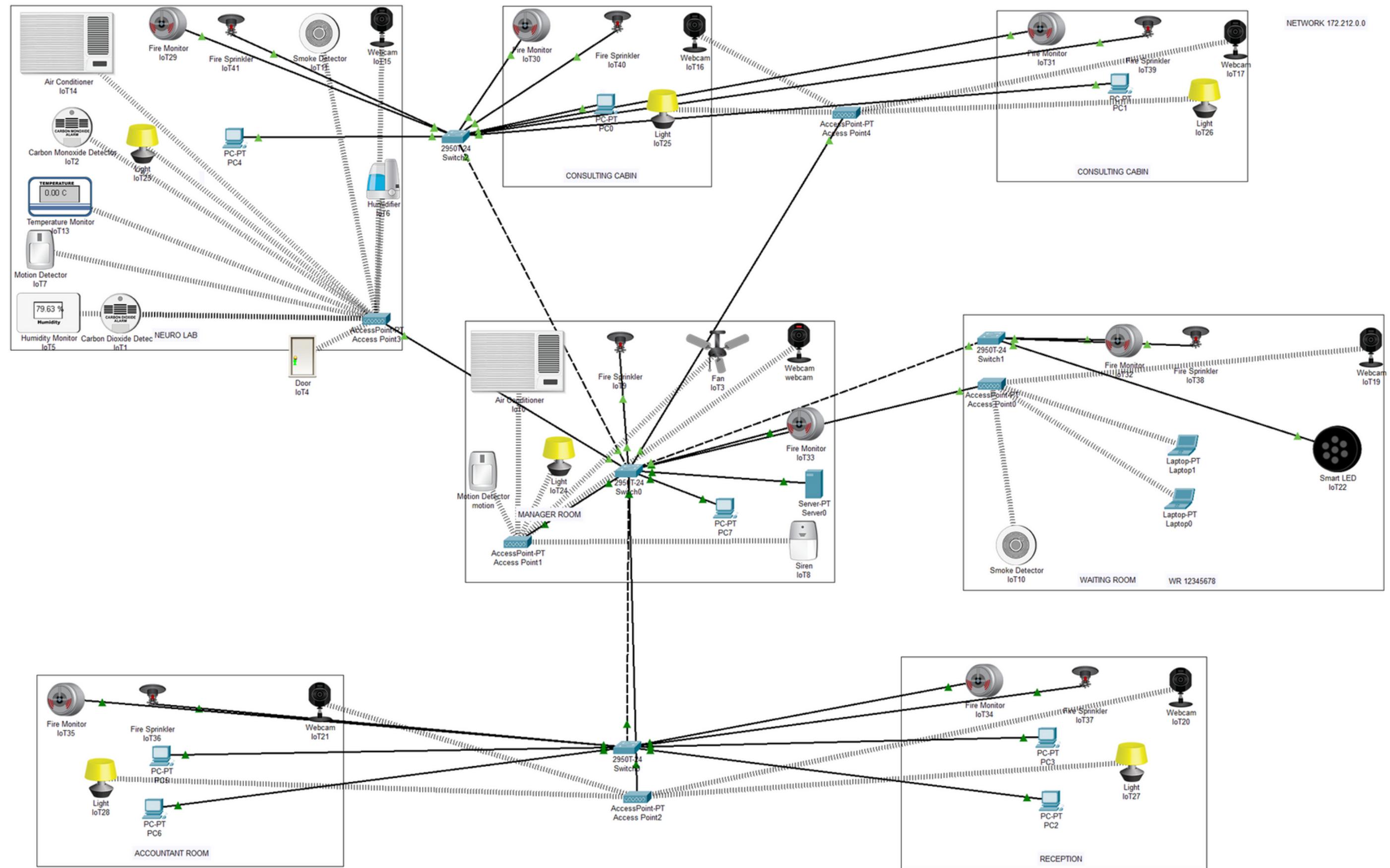
Smoke detection and fire alarm



EXISTING NETWORK



MODIFIED NETWORK





Hardware Used

- SMOKE DETECTOR
- SPRINKLER
- WIRELESS WEBCAM
- SIREN
- MOTION DETECTIVE SENSOR
- CARBON MONOXIDE AND DIOXIDE DETECTOR
- HUMIDITY DETECTOR AND HUMIDIFIER
- SWITCH
- ACCESS POINT
- SMART LED
- SMART LIGHT BULB
- AUTOMATIC AC 2
- TEMPRATURE MONITOR

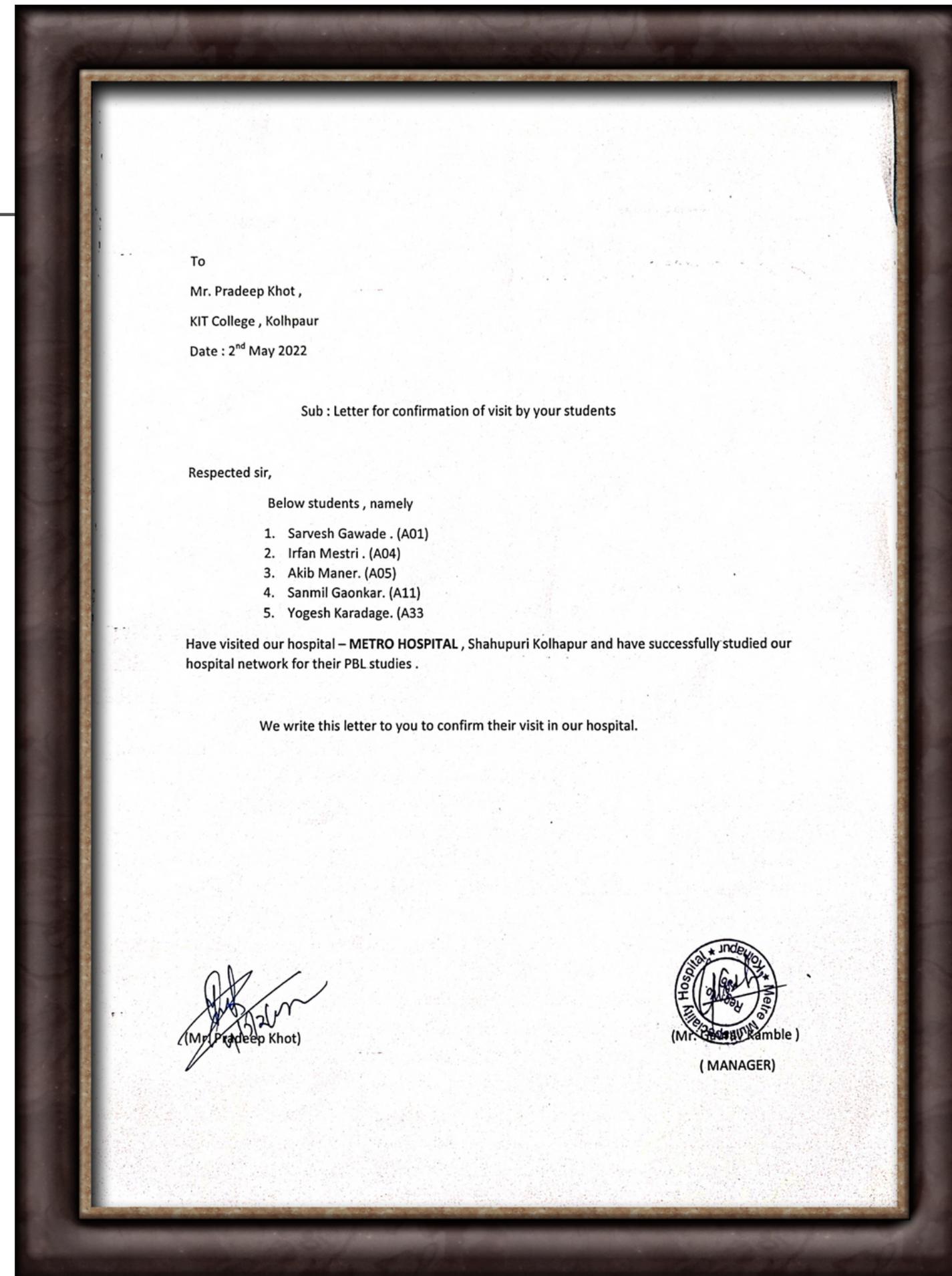
ESTIMATED COST

PRODUCT NAME	NUMBER OF ITEMS	COST
1) Smoke detector	2	1,996
2) Sprinkler	7	1,680
3) Wireless webcam	7	16,793
4) Siren	2	1,180
5) Motion detective sensor	2	2,400
6) Carbon monoxide and dioxide detector	2	1,984
7) Humidity detector & humidifier ((humidity + temp monitor) & humidifier)	2,2	998 + 6998 = 7,996
8) Switch	3	11,097
9) Access point	6	9,114
10) Smart led	1	1,399
11) Smart light bulb	6	4,200
12) Automatic AC	2	55,580
TOTAL:	44	1,15,365

Our Team



CERTIFICATE FOR CONFIRMATION OF VISIT



Thank you

