

# COMPUTER NETWORKING & IT ADMINISTRATION AT NEXERP

**BY**

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of  
Bachelor of Science in Computer Science and Engineering

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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**05 JANUARY 2022**

## **APPROVAL**

This Project/internship titled **COMPUTER NETWORKING & IT ADMINISTRATION AT NEXERP**, submitted by AL MAMUN, ID No: 191-15-12455 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 05 January 2022.

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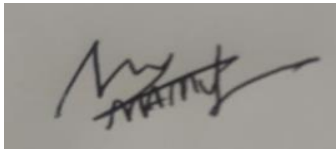
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First we express our heartiest thanks and gratefulness to almighty Allah for His blessing make possible to complete the final year internship successfully.

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Finally, we must acknowledge with due respect the constant support and patients of our parents.

## **ABSTRACT**

The purpose of the project is to act as a user of network computers. My goal is implement the required functionality of your company. Helps to understand it. Knowledge is better like this.

A network administrator is someone who assigns responsibility to a company. This includes maintaining computer infrastructure with a focus on local area networks. Extensive network. As a network administrator, I learned as much as I could from here. I hope it will benefit me in the future.

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# **CHAPTER 1**

## **Introduction**

### **1.1 Introduction**

An electronic network is a network that allows computers to exchange data. On a computer Network devices in a network pass data to each other. The data is transferred in the form. Pair. Connections between nodes are made using either cable media or cable media. Wireless media. Computer networks use different transmission media to carry signals. Network size a communication protocol for planning network traffic in a topology Organizational Purpose In most cases, communication protocols are added on top of everything else. Individual or more general communication protocols, excluding the physical

### **1.2 Motivation**

As I am studying my bachelor's degree in computer science and Engineering with IT sector, I believe that internship in the same sector will help me to gain the practical experience will academic study.

There is another reason for choosing network sector due to day die day increase the advantage of IT sector demand. The demand in Network and sector is highly valued in the job sector.

### **1.3 Internship Objectives**

I want to gain practical experience from my internship in network Sector. I want to earn corporate experience from my network Sector. I want to earn corporate experience from this reputed and want to execute this in real life.

This internship on Network and security & IT administration will help me to gain the practical experience with academic study.

## **1.4 Expected Outcome**

Through this internship, I can increase my developing skills, knowledge; understand the specific roles and responsibilities for job field. And it will be very helpful for decision making in my job sector gain success.

## **CHAPTER 2**

### **Internship at NEXERP**

#### **2.1 Introduction to the Company**

NexERP provides user-friendly ERP software, ensures after sales customer support, and offers a variety of the best quality products - all in the most affordable price. With optimized ERP software technology stack to deliver dynamic performance, we are best at providing SOHO ERP systems that deliver unparalleled capabilities to run businesses efficiently. NexERP has developed an integrated system to maintain all kinds of day-to-day business operation with operational efficiency.

#### **2.2 Product and Market Situation**

Creating client-oriented software at NexERP ensures a mix of technical excellence and clear communication. We have over 20 years of system development expertise in a variety of business models. We know that each customer is unique and that each customer is unique. We strive to provide an innovative and affordable ERP system.

#### **2.3 Target Group**

It's ERP. Support chain; e-commerce; CRM HR self-service portal. Vertical apps; Workflow content management; Digital media; integrated enterprise software platform with over 100 modules for project collaboration and social media. Companies need to be able to automate their operations. Work is done by providing end-to-end functionality and smooth collaboration between people as much as possible throughout the process.

#### **NEXERP Limited**

**House-752, Road-1, Avenue -4, Mirpur DOHS, Dhaka-1216.**

**Phone: +880 1919 111444**

**info@nexerp.com.bd nexerp.com.bd**

## **CHAPTER 3**

### **TASKS, PROJECTS, AND ACTIVISTS**

Normally, if two computers are connected to each other, then it is also a network, and if thousands of computers are connected to each other, then it is also a network.

In this way, when computers are connected to each other through a medium, they can exchange communication data between themselves

#### **3.1 Types of Networks:**

There are three type of network

- Local area network
- Metropolitan area network
- Wide area network

### 3.1.1 Local Area Network

Basically I worked with the local area network. Local Area Network is a type of small network that we organize in school university office building etc

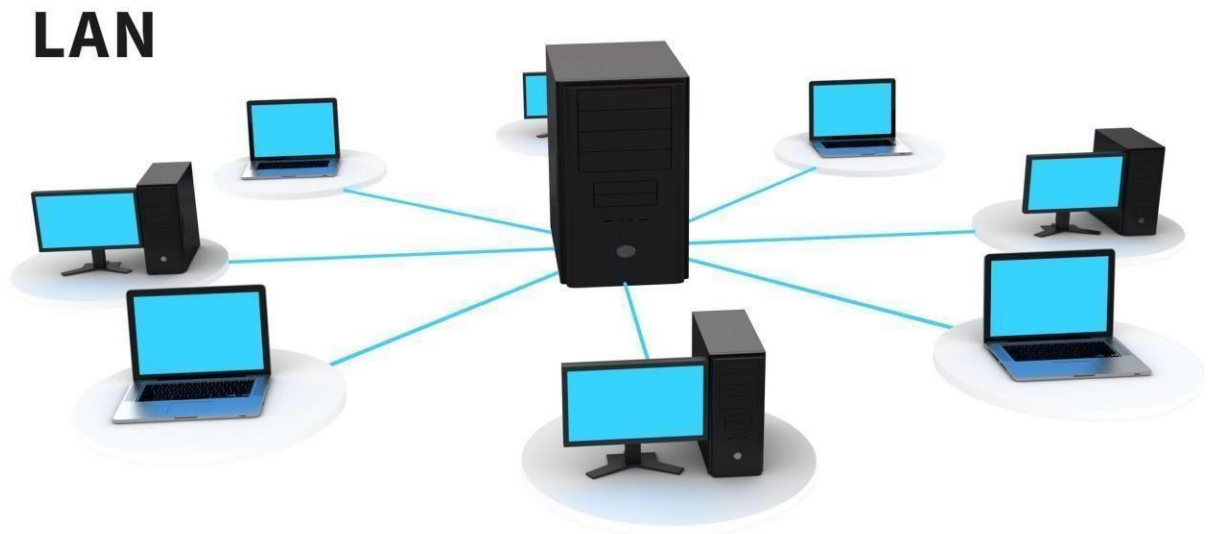


Figure 3.1: Local area network

TechTerms.com

### **3.1.2 Advantages of LAN network**

- Easily change the LAN configuration.
- Improve security.
- Resource Sharing
- Convenient Communication
- Centralized Data
- Computer Identification

### **3.1.3 Disadvantage of LAN network**

- If the main server suffers a fault, all the users will be affected.
- Implementation Cost
- Policy Violations
- Maintenance
- Area Coverage
- Malware Spreading



## 3.2 Metropolitan Area Network

A metropolitan area network is a computer network that allows users to interact with computer resources based on the geographic location of the metropolitan area city.



Figure: 3.2: Metropolitan Area Network

### 3.12 Advantages of MAN Network

- Data transmission is fast.
- And fiber optics cable are used

### 3.2.2 Disadvantage of MAN network

- Too expensive.

### 3.3 Wide Area Network

A wide area network is a communication network that extends a large geographic area for the primary purpose of a computer network.

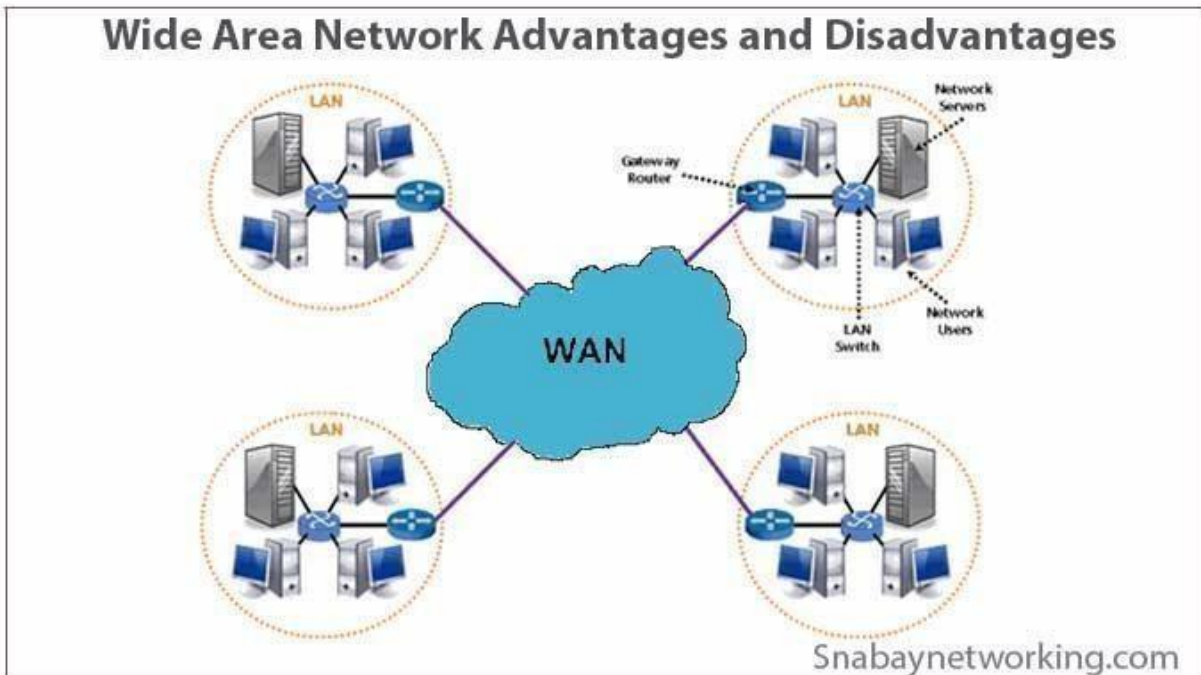


Figure3.3: wide area network

#### 3.3.1 Advantage of WAN

- WAN covers the large geographical area
- Everyone on that network can access the same data.
- Setting up the network could be expensive

#### 3.3.2 Disadvantage of WAN

- Books can be used in various information magazines by collecting the nature of the film. Sometimes there are some problems

## 3.4 Types of network cables

There are three types of network cable used in a network

- Coaxial cable
- Twisted pair cable
- Fiber Optic cable

Now I will discuss briefly those 3 types of network cable

### 3.4.1 Coaxial cable

Coaxial cable is a type of shielded and shielded copper wire used in computer networks, and is used by telephone companies to operate customers.



Figure3.4: Coaxial cable

Coaxial cable is a faster transmission medium. With speed up to 200MBPS. The three most common cable sizes are RG6, RG11 and RG59.

### 3.4.2 Twisted pair cable

Twisted pair cable is a standard copper cable that connects a home computer to multiple business computers and shares information with each other over the Internet.

There have two types of twisted pair cable

- Unshielded twisted pair(UTP)
- Shielded twisted pair (STP)

### 3.4.3 Unshielded Twisted pair

Unshielded twisted pair cables are mainly used in the ICT industry as Ethernet cable and telephone wires.

## Unshielded Twisted Pair Cable

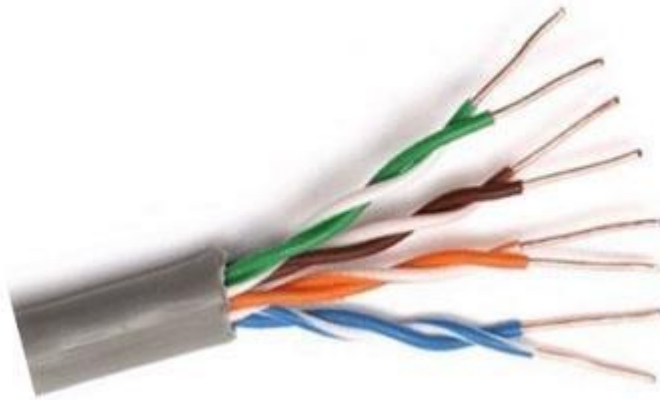


Figure 3.5: Unshielded twisted pair cable

It does not offer as good protection from interference as other cables, but it is less expensive and easier to work with.

### 3.4.4 Shielded Twisted pair

Each pair of twist straps is inside a shield or a snug-fitting cover. The result is safer and less electrical interference. These shields are usually made of aluminum / polyester. Each pair of hoods is hidden in the center of the plastic jacket.



Figure 3.6: Shielded twisted pair cable

### 3.4.5 Fiber optic cable

Optical fiber is basically an English word. Which is basically a kind of cable. The goal is to move data accurately and quickly from one place to another. Optical fiber is one of the most invisible and easy to carry. This is so subtle that it is even more subtle than the hair on our heads. This is mainly used for data transfer through its light

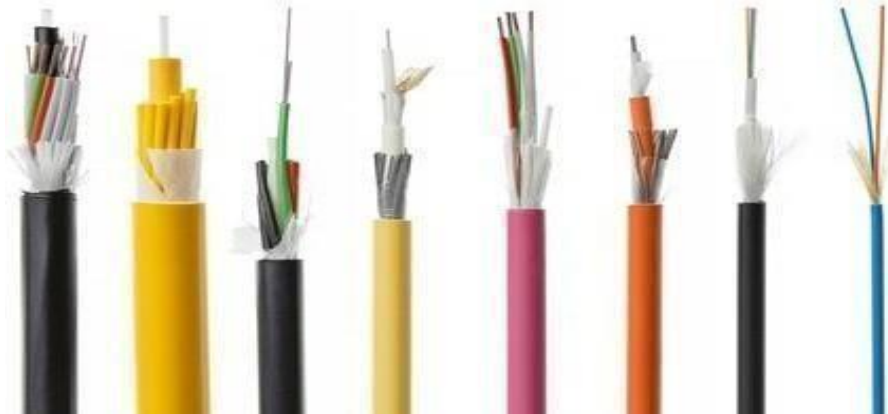


Figure: 3.7: Fiber optic cable

## CHAPTER 4

### NETWORK

### DEVICES

#### 4.1 Network Devices

For a network system, network devices are most important components to connect computers together so that they can share files or resources with each other.

Some essential networking devices are:

- HUB
- Switches
- Media converter
- Repeater
- Router

##### 4.1.1 HUB

HUB - A hub is a network device that connects computers to each other. It works in the datalink layer of OSI Model. The hub does not store any addresses of any device. When data comes to the hub from any device, the hub transmits that data through all its ports without seeing any of it



Figure 4.1: Hub

## 4.1.2 Switches

On a network, a switch is a high-speed network transmission device that received oncoming data and passes to their desired destination. Switches are like hubs, it is smarter than a hub.



Figure: 4.2 CISCO Switch

This is a Cisco network switch. There are also have some popular switch manufacturers like NETGEAR,D-link etc

## 4.1.3 Media converter

Media converters are also known as fiber media converters. Media converters are network connectors used to connect two unfamiliar media types, such as fiber optic cables, to twisted pair cables. The fiber media converter can connect to different types of LAN media and adjust the satin speed.



Figure 4.3: Media converter



#### 4.1.4 Repeater

A network repeater is a network device that receives a signal and sends more data back to the extended topology network. Add-on devices can remove unwanted alerts from incoming alarms. Repeaters allow you to clearly restore the signal each week. Repeaters are also known as signal boosters.



Figure 4.4:A Repeater

## 4.1.5 Router

A router is a layer-3 networking device, that received a data packet, then analyze and move that incoming packets to another network.this device determines the best wy for a packet to be forwarded to the destination. Router contains several kinds of memory , a processor ,and some input-interface.



Figure:4.5: cisco router

There are many type of different type of router available in markets.

- 802.11ac Router(Linksys Ea6500,netgear AC1750).
- 802.11n Router (Nrtgesr n300 W2000,TP-link TL-WR84IN)
- 802.11g Router(Netgear WGR614,linksys WRT54G)



Figure:4.6:802.11ac Router



Figure4.7: 802.11nRouter



Figure:4.8:802.11g Router

## CHAPTER 5

### CCTV INSTALLATION & MAINTENANCE

CCTV stands for Video Surveillance and is commonly known as Video Surveillance. "Closed circuit" means "broadcast" to a "closed" monitor, unlike "normal" television, which is normally broadcast. CCTV networks are often used to detect criminal activity and record traffic jams, but they also have other uses.

#### 5.1 Benefits of CCTV

1. **Case Management: CCTV Surveillance Can Prevent Criminals** When a crime occurs Video recordings can investigate the rule of law and provide evidence for later proceedings in court.
2. **Disaster management: CCTV Camera;** Paramedics and rescue teams can monitor the "situation" via video to the disaster management team. for example. Inside a burning building. From a cave or from a helicopter flying over the scene.
3. **Street and Community Street Surveillance:** At traffic lights and elsewhere in the city, cameras monitor people to collect traffic statistics and evidence of speeding. Oat, the successor to Iota, provides real-time data about the city. This is a Chicago initiative that primarily collects weather and the environment.
4. **Medical Surveillance and Diagnosis:** There are about 43 facial muscles that express human thoughts and emotions. Smart software can identify these terms. For example, it's easier than the pictures that people with pain and anxiety can get. CCTV cameras can be used to detect potential medical problems in patients such as children and the elderly. For example, stroke or epilepsy or asthma.

5. Behavioral Survey: CCTV found that 83% of suicide attempts were reported in front of the train. They were later analyzed by CCTV footage and are now used as potential warning signs for observers.

6. Retail Intelligence: Market intelligence collected from customer video surveillance to analyze demand and develop better strategies. for example. Shopping is what most people go through. How likely are you to respond to action requests in different store configurations?

## 5.2 Classification of CCTV

1. **Analog** - Use the Bayonet Neill-Councilman (BNC) connector on the coaxial cable to send continuous video signals. They are less efficient, but cheaper and more efficient. There are more barriers in analog systems. for example. Regular coaxial cables usually do not transmit sound.
2. **Digital** – Digitize the signal at the camera level. These systems do not require a video card because the images are stored directly on the computer, but they are often compressed because they require a lot of space to store the recordings.
3. **Network or IP** – Used in analog or digital cameras. These systems use a video server to stream live video files over the Internet. The advantages are: Remote control; Power over Ethernet (POE) and a clearer analysis with wife and voice. In addition to distributed artificial intelligence (DAI), IP cameras have the ability to cover multiple cameras, usually a single camera that can cover multiple angles or cover different camera systems.

### 5.3 Installation of CCTV

I will need some hardware device to install CCTV

- NVR
- IP Camera
- LAN cable
- Centralize power supply
- Monitor

**Step 1:** First, connect the plug adapter cable to the power adapter or centralized PSU and IP camera. Connect the IP camera cable to the network switch center and the NVR.



Figure:5.1: Login Page

**Step2:** And I will Go to NVR Men-Advance –Network



Figure 5.2: NVR Men-Advance –Network Option

**Step3:** and I will check the use following IP address



**Figure-5.3** IPAddress

**Step3:** If the Ip Address is correct then i will click apply



**Figure:5.4** choose apply option

**Step5:** Then I will Go to NVR Menu -Advance -Remote-IP modify



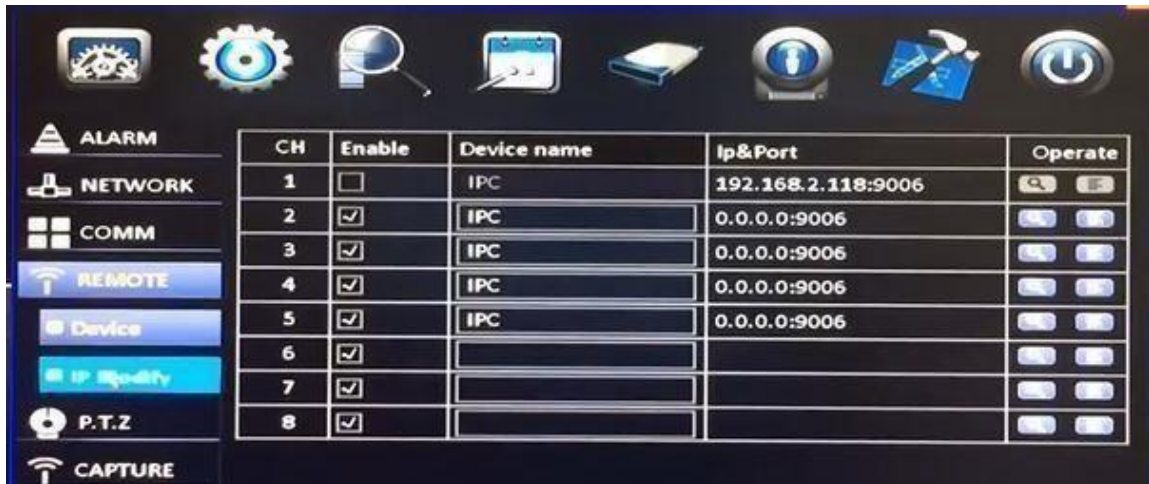


Figure:5.5 NVR Menu -Advance -Remote-ip modify Option

**Step6:** I will assign IP address Subnet Mask and gateway.

- IP Address 192.168.000.101
- Subnet masks 255.255.255.0
- GATEWAY 192.168.002.001



Figure:5.6 IP address Subnet Mask and gateway

Step7: And I will Select IP Camera



Figure:5.7 Select IP Camera

Step8: Then I will Click batch Edit



Figure5.8 Click batch Edit

**Step9:** Now I will Click Modify



Figure:5.9 Click Modify

- AND SUCCESSFULLY IT IS COMPLETED INSTALL

**5.4 CCTV Working Process:** Analog and digital systems behave differently, but modern CCTV networks use conversion software and hardware to convert them to analog.

Includes CCTV system:

- Each camera (analog or digital) has a lens with an image sensor.
- One or more monitors output the output image.
- Adapter
- BNC Connector or Video Val loon

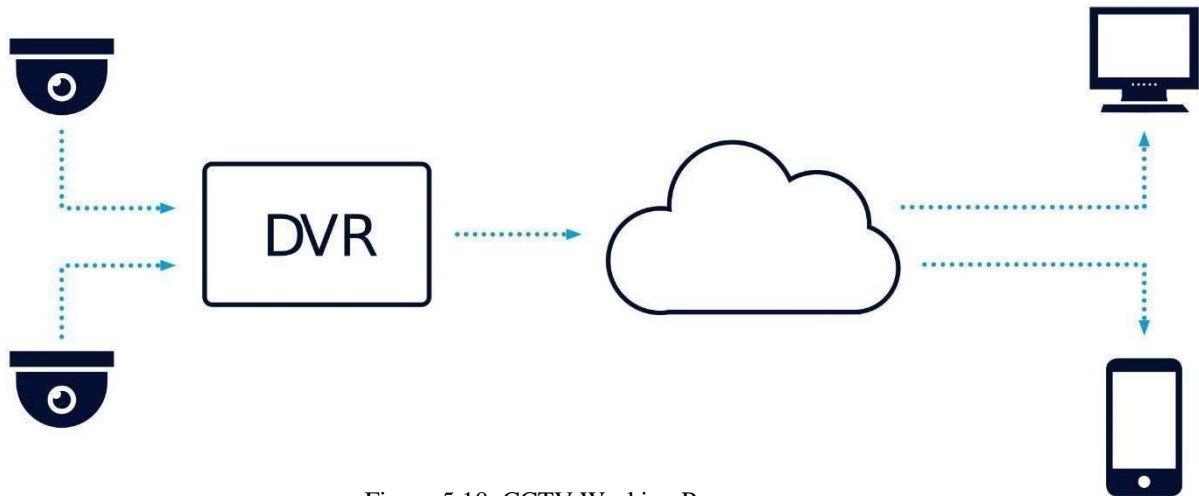


Figure:5.10: CCTV Working Process

1. The camera uses an image sensor to record an image through the lens.
2. The monitor can be activated (via software) or monitored (by a person). They need to monitor the CCTV network itself.

## **5.5 Monitoring CCTV Networks**

CCTV Security; One of the fastest growing trends in web surveillance. This software ensures that your CCTV system is up and running, provides 24/7 monitoring of your area and provides reliable notifications. The monitoring system can alert employees (and automatically switch to backup power) in the event of a power outage. It constantly checks for network malfunctions and detects misuse and abuse. You can identify risks and needs.

## CHAPTER 6 CONCLUSION AND LIMITATION

### 6.1 Conclusion

Our country is a developing country. So as a developing, the government of Bangladesh has a goal digitalize all sector .so, it is necessary to gain a lot of knowledge about IT-based technology. Basically, this focused on the networking and hardware support. Networking and hardware troubleshooting and solve those problem.

Technical books are not enough to gather knowledge. But when it comes to practical knowledge, it strengthens our knowledge and gives us confidence.

It's a quick work experience for me. There was a lot to learn in the internship. During the last four to three months at NEXERP, I adapted to the enterprise and IT environment and did my best to achieve each of these goals. Through my work, I have been involved in several type of network and hardware

Troubleshooting such as LAN troubleshooting, Connectivity checking, software/driver installation, network device installation, computer hardware installation and maintenance, install web servers, DHCP, telnet, DNS, MALL (postfix, dovecot, squirrel mail), SSH and much more. I have successfully achieved the concluding result of my internship "Hardware & Network".

## **APPENDIX**

### **Abbreviation**

**IT** ----- Information Technology

**CCTV** --- Stand for Closed Circuit

**ISP** -----Internet service provider.

**LAN** ----- Local Area Network

**MAN** ----- Metropolitan Area Network

**WAN** ----- Wide Area Network

**UTP**----- Unshielded twisted pair cable

**STP** ----- shielded twisted pair cable

**HTTP** ---- Hypertext Transfer protocol

**DNS**----- Domain Name server

**ISDN** ---- Integrated service digital network

**CSMA/CD**---- Carrier sense Multiple Access/Collision Detection

**FTP** -----File Transfer Protocol

**MAC** ---- Message Authentication Code

**TCP/IP** -- Transmission Control protocol/Internet protocol

**SMTP** --- simple Mail transfer protocol

**IPV6** --- nternet protocol Version6

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