

**INTERNSHIP REPORT**  
**INTERNSHIP ON BANKING (RUPALI BANK) NETWORKING SYSTEM**

**SUBMITTED**  
**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 UNIVERSIT**  
**DHAKA, BANGLADESH**

## APPROVAL

This internship titled “**Internship on Banking (Rupali Bank) Networking system**” submitted by **Shashwati Mandal (172-15-10126)** to the department of Computer Science and Engineering, Daffodil International University has been accepted as satisfaction for the partial fulfillment of the requirement for the degree of bachelor science in computer science and Engineering and approved as to its style and contents. The presentation has been held on 08-10-2020.

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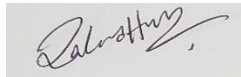


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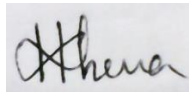


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## DECLARATION

I hereby declare that, this internship report in the outcome of the investigation performed by us under the supervision of **Masud Rabbani, Lecturer, Department of CSE**, Daffodil International University.

We also declare that no part of this internship has been or is being submitted elsewhere for the award of any degree or diploma.

**Supervised By:**



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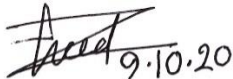
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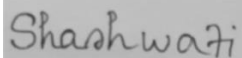
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## ACKNOWLEDGEMENT

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I am thankful to **Masud Rabbani, a lecturer at the Daffodil International University** in Dhaka. Deep awareness and keen interest of the supervisor in carrying out this internship in the area of "**Banking (Rupali Bank) Networking Method**". It was possible to complete this internship with his infinite patience, scholarly guidance, relentless motivation, persistent and active supervision, constructive criticism, useful advice, reading many inferior drafts and correcting them at all levels.

I would like to express my sincere gratitude to **Dr. Syed Akhter Hossain, Professor and Head of the CSE Department**, for his kind assistance in completing my internship, as well as to other faculty members and staff of the Daffodil International University of CSE Department.

I would like to thank Daffodil International University's entire course partner who took part in this discussion when completing the course work.

Finally, I must accept the continuous support of parents and patients with due regard.

## **ABSTRACT**

As a CSE student, I have completed my internship report in the Bank Networking System and Monitoring System. This report is a prerequisite of my Bachelor of Science degree internship program. I have completed my Rupali Bank Limited internship. An organization is linked to a variety of gadgets by correspondence. A hub can be a PC, a printer or some other gadget that is suitable for sending or possibly receiving data generated by various hubs on the grid. The primary purpose of my internship is to acquire knowledge of network connectivity, network monitoring and solving processes. To implement and configure the network, they used VLSM, VLAN, Cisco Router and Switches, and firewalls. I have designed firewalls with an access control list to limit unauthorized access to the network. I used the Cisco Packet tracer to model the network's configuration and settings.

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# CHAPTER 01

## Introduction

### 1.1 Introduction

Daffodil International University's internship program has under-graduation requirements for CSE students. This investigation is a fractional prerequisite at the daffodil global college for the entry level position program of the CSE education plan. The primary motive behind temporary work is to present the understudy to the world of action. The process of protecting information data from unauthorized access, use, alteration, tempering or disclosure is information security. These days, theft of personal identification, credit card information, and other significant information using stolen user names and passwords has become prevalent. There are more immediate benefits as the government becomes more involved in business-critical Internet applications. These network-based apps and services can, however, pose security threats to citizens' corporate and government data resources. Network security is the very technique by which digital data services are protected, the most significant security goals are privacy protection and availability. With this in mind, it is important that all networks are protected against threats and vulnerabilities to maximize the value of a business.

### 1.2 Motivation

I am a BSC student at CSE and I want to acquire appropriate knowledge of computer networking for that purpose. I need to know something visual now, and for knowledge and use of my abilities, it should be done practically. For this reason, my motivation is for this internship to make me optimistic. When I've completed this internship, I can understand the importance of this internship course.

### 1.3 Internship Objectives

In this internship, I built myself day after day. How to handle networks for an organization now I know how to deal with friends, customers and others. I didn't know, literally, In this world, the business world is another world. When I went through the days one by one, I was one. Astonished, and made me excited to learn about real life with them. Since the outside world is particularly engaged after graduation for everyone, Internship provides the phenomenal open entry into the organizational world of the understudy and to get prologue to different extensions of the organizational world. The place period at the passage level is for three months at any time. Collaborator understudies are grouped during their impermanent duration of activity under a specific worker. In addition, the job earns movement by keeping to the direction of the Supervisor. Understudy offers a study of his / her project work. A place at the passage level is an opportunity to get some answers on how a company is wearing down both on a colossal scale and for an ordinary cause.

### 1.4 Report layout chapter:

I have addressed the implementation of internship, motivation, purpose of internship, expected outcome and objectives in this chapter. The layout of my study is divided into 5 chapters.

- **Chapter 1:** Discussion about Introduction, motivation, Internship Objectives, introduction to the Company and Report Layout.
- **Chapter 2:** About Introduction to Rupali Bank Limited, Product and Market Situation, Target Group, SWOT Analysis and Organizational Structure.
- **Chapter 3:** Daily task and activities, events and activities, internship task and activities and challenges.
- **Chapter 4:** Competencies earned, smart plan and reflection
- **Chapter 5:** Discussion and conclusion and Scope for the Future Career.

## CHAPTER 02

### ORGANIZATION

#### 2.1 About the Rupali bank limited:

Rupali Bank Ltd. was formed by combining 3 ( three) former commercial banks, i.e. On March 26, 1972, under the Bangladesh Banks (Nationalization) Order 1972 (P.O. No. 26 of 1972), Muslim Commercial Bank Ltd., Australasia Bank Ltd. and Standard Bank Ltd. worked in what was then Pakistan, with all their properties, advantages, rights , powers, authorities, privileges, liabilities, borrowings and obligations. Until December 13, 1986, Rupali Bank operated as a nationalized commercial bank. On December 14, 1986, Rupali Bank Ltd. became the nation's biggest public limited banking firm.



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Phone: + 88-02-9551624, +88-02-9551525 +88-02-9552184

Fax: +88-02-9564148, +88-02-9552671

E-mail: info @ rupalibank.org

[www.rupalibank.org](http://www.rupalibank.org)

## **2.2 Board of Directors**

### **2.2.1 Chairman:**

#### **Monzur Hossain**

Monzur Hossain currently holds the title of Chairman of Rupali Bank Ltd. In his past career, he has been a Member of the Bangladesh Planning Commission, Secretary of the Ministry of Public Administration of Bangladesh, Secretary of the Ministry of Home Affairs of Bangladesh, Secretary of the Ministry of Water Resources of Bangladesh, Secretary of the Government Division of the Ministry of Local Government of Bangladesh, Rural Dev & Cooperatives and Secretary to the Bangladesh Ministry of Planning and Secretary to the Agriculture Ministry of Bangladesh. Monzur Hossain received an undergraduate degree from Dhaka University and a graduate degree.

### **2.2.2 Chief Executive Officer, MD**

#### **Mohammad Ataur Rahman Prodhan**

Chief Executive Officer, Director of MD & Ex-Officio, Rupali Bank Ltd. Mohammad Ataur Rahman Prodhan is a businessman who has led six different businesses. Mr. Prodhan currently holds the rank of Chairman of Rupali Bank Securities Ltd. and Chief Executive Officer, Director of MD & Ex-Officio of Rupali Bank Ltd. He is also a board member of Summit Bank Ltd. and Padma Bank Ltd. and a member of the Dhaka Club of Officers. He was Managing Director of Probashi Kallyan Bank in his previous career, Chairman of Rupali Investment Ltd., Chief Executive Officer & General Manager of Sonali Bank (UK) Ltd., Deputy Managing Director of Sonali Bank Ltd. and President of Dhaka North's Rotary Club. He was awarded a graduate degree and an undergraduate degree by Dhaka University.

### **2.2.3 Non-Executive Director**

#### **Abu Sufian**

Mr. Abu Sufian is currently the President of the Ichamati Mohammadia Adarsha Dakhil Madrasah. He is also a member of the board of directors of Rupali Bank Ltd. and a member of Chattagram Maa-O-Shishu Hospital, a member of Chattagram Samity Dhaka, chief editor of The Weekly Chattala, and a member of the Red Crescent Society of Bangladesh. He previously served as Chairman of the Chittagong Sangbadik Co-Operative Housing Society and as President of the Chittagong Press Club Ltd.

### **2.2.4 Non-Executive Director**

#### **Mahiuddin Faruqui**

On the board of directors of Rupali Bank Ltd., Mahiuddin Faruqui is Vice President of the Bangladesh Knitwear Manufactures & Exporters Association and Managing Director of Multifabs Ltd. He held the position of General Manager for Janata Bank Ltd. in his previous career.

### **2.2.5 Independent Non-Executive Director**

#### **Mohammad Abdul Baset Khan**

Mohammad Abdul Baset Khan is currently the President of the Narayangonj Officers Forum and the President of the Islamic Centre Complex of Binairchar. He is also a member of the board of Rupali Bank Ltd. and a member of the Association of BCS Audit & Accounts.

### **2.2.6 Chief Financial officer & Deputy General Manager**

#### **Mohammad Shawkat Jahan Khan**

Mohammed Shawkat Jahan Khan currently holds the role of Rupali Bank Ltd. Chief Financial Officer & Deputy General Manager.

### **2.2.7 Head Internal Control & Compliance**

#### **Mohammad Jahangir Alam**

Mohammad Jahangir Alam is currently Head-Internal Control & Enforcement, Rupali Bank Ltd. Deputy MD.

### **2.2.8 Deputy Managing Director**

#### **Arjun Kanti Paul**

As Deputy Managing Director, Arjun Kanti Paul was promoted and posted to Rupali Bank Limited on December 17, 2019. He served as the General Manager of Rupali Bank Ltd. prior to his new assignment. He joined Rupali Bank Ltd. in 1986 through the Bankers Recruitment Committee (BRC) as a Senior Officer hired by Bangladesh Bank. He worked as Head of various branches, Zonal and Divisional Offices at field level and in various Head Office Divisions throughout his long 34-year banking career. In 1982 and 1983, he obtained a B.Sc(Hons), M.Sc. in Chemistry from Chittagong University.

## **2.3 Product and Market Situation**

### **2.3.1 Product**

1. RBL Multi Millionaire
2. RBL Money Maximizer
3. RBL Earning
4. RBL DPS
5. Western Union Money Transfer
6. Western Union Money Transfer Online Service
7. Credit Card
8. One Stop Service
9. Money Savings Scheme
10. Deposit Insurance Scheme
11. Tine Deposit Scheme
12. Inward & Outward Remittance
13. Travelers Sequences

14. Import Finance
15. Export Finance
16. Loan Syndications
17. Underwriting and bridge Financing
18. Industrial Finance
19. Trade Finance
20. Currency Deposit A/C
21. NFCD
22. RFCD
23. Foreign
24. Consumer Reedit Scheme

#### ❖ **New Products and services for RBL**

- Merchant Banking Services
- ELDORADO EFT System (Will be introduced soon)

- 1) Local Remittance
- 2) Foreign Remittance

### **2.3.2 Market Situation**

Rupali Bank Limited provides commercial banking and related services in Bangladesh. The company offers savings accounts, current deposits, fixed deposits, call deposits, special notice deposits, monthly saving schemes, student savings accounts, and street and working children accounts, as well as foreign currency accounts. It also provides industrial project loans/term loans, cash credits, overdrafts, bank guarantees, loan under equity entrepreneurship funds, green project loans, renewable energy project loans, syndication/consortium loans, PPP loans, residential and commercial loans, loans against deposit schemes, loans against FDR, commercial car loans, and student loans. In addition, the company offers small and medium enterprise loans, small enterprise financing, fixed

assets and working capital financing, rural and agro credit, and other loans; and cash management, custody, foreign exchange, import and export finance, pre and post shipment credit, bonds, guarantees, ancillaries, treasury, fund management, fund transfer, and modern banking services. Further, it provides mobile financial services; locker services; merchant banking and capital market services; foreign remittance; bills collection; and special services. The company operates through 576 branches. Rupali Bank Limited was incorporated in 1986 and is headquartered in Dhaka, Bangladesh. Customers are important to every company that Banking in Bangladesh is basically an extra time for "management work". My report depends on the administration of the authorized commercial bank. In this report, I tried to improve the general management status of RBL as a bank guarantee and to communicate it to customers. The data of the initial segment is brought with you and the competent authority supplies them to the customer. The second part of the report contains ideas for employment, my obligations and responsibilities for activities and some proposals for financial status. The third part contains the activities section of my participation in the basic level. He spoke of RBL. Administrative advertising, employee behavior and customer participation. The last part contains the survey inspections and results.

## **2.4 Target Group**

### **2.4.1 Vision**

To become a leading banking institution and to play a central role in the country's growth. By using appropriate technology and providing timely service, the bank is committed to meeting the diverse needs of its customers across a range of products at a competitive price, so that sustainable growth, fair return and contribution to the country's development can be ensured with a motivated and skilled workforce.



### **2.4.2 Mission**

- To have customer service of exceptional quality
- To become a reliable repository for the money of the client and its financial advisor
- To show team spirit and professionalism
- To have a sound foundation of resources
- To be the banking area 's finest bank
- To uphold business and organization integrity

### **2.4.3 Goals**

- The objective of Rupali Bank Ltd is not only to earn profit, but also to maintain the commitment and to ensure its cooperation with the individual of all levels , particularly the businessman, industrialist who is involved in consortium-based large-scale industry and the Agro-based export-oriented medium and small-scale industries by self-inspiration.
- By improving banking technology prudence in management and applying high standards of business ethics through its proven dedication and heritage, Rupali bank Ltd is always ready to maintain the highest quality of services.
- Rupali bank Ltd is committed to ensuring its contribution to the national economy by growing its profitability for its customers through a competent and disciplinary growth strategy.

### **2.4.4 Vital Statement**

Supporting the Development, Expansion and Improvement of the Influence of elements and Management in all Aspects of Banking Activities, in order to Increase the value of the Business of the Investor and Provide Customers with the most Important Potential Benefits.

## 2.5 SWOT Analysis

SWOT Analysis is a Strategic Planning Methodology used to help define strengths, vulnerabilities, opportunities, and risks associated with market rivalry or project planning for an individual or organization.

In Below Figure shows the SWOT Analysis,



Fig 2.1: SWOT Analysis

## 2.6 Organizational Structure

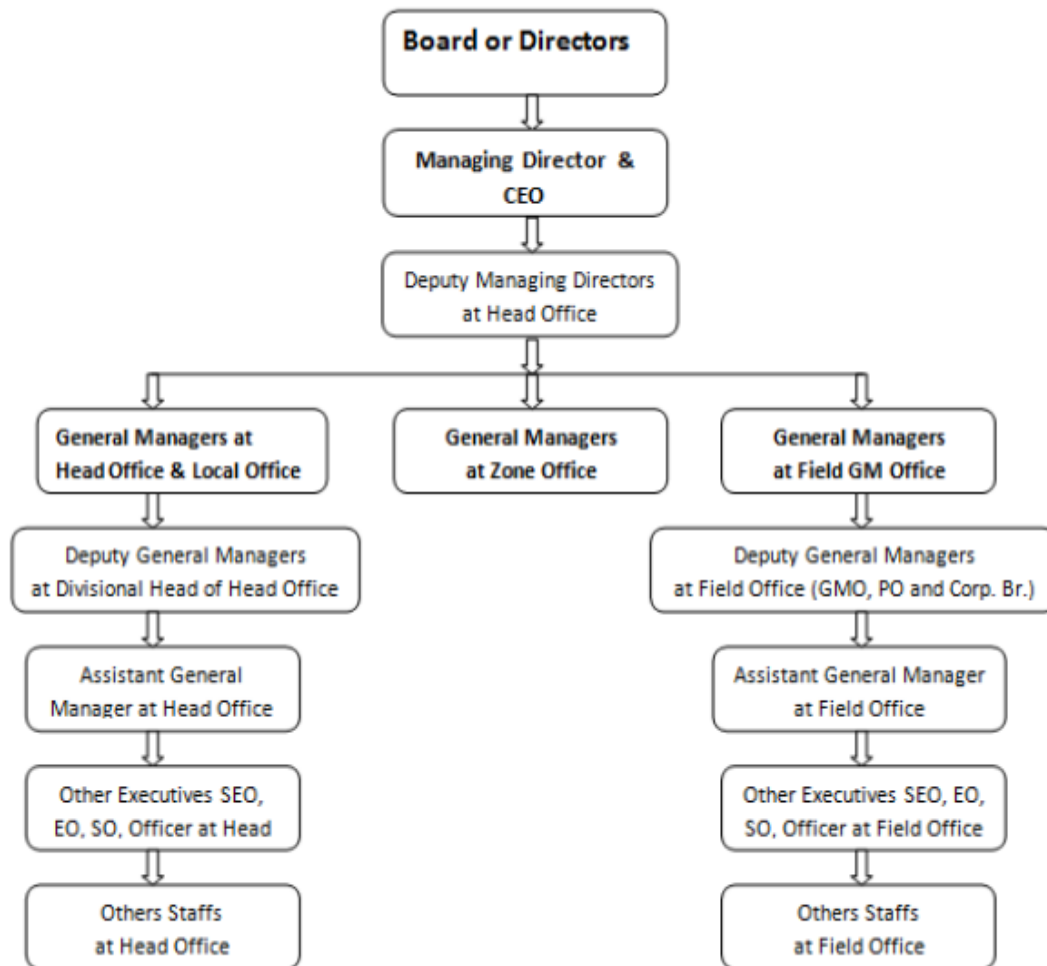
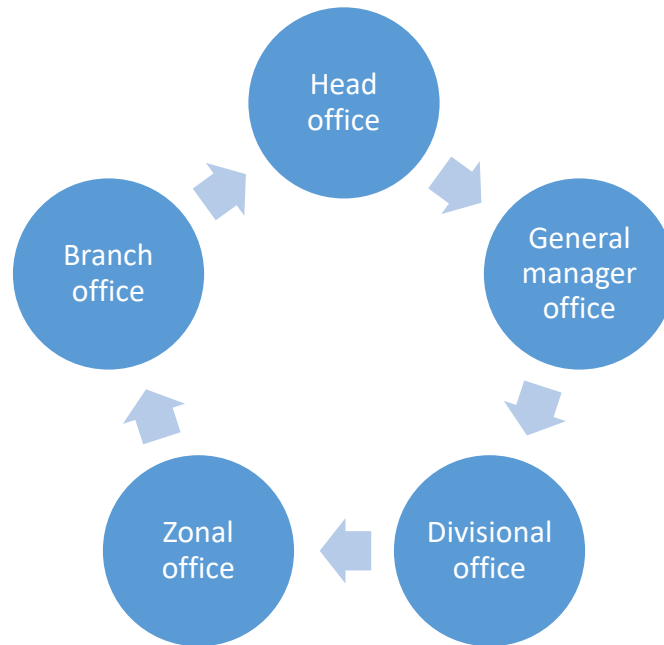


Fig 2.2: Organizational Structure of Rupali Bank Ltd.

## 2.6.1 Functional structure of Rupali Bank



## 2.6.2 Divisions of Rupali Bank Limited

Rupali Bank limited has some major division comprising of various departments, the major divisions are as follows:



**1. Investment division:** The Authority of this Division is to decide the party or client who will obtain the credit facility from the bank. Credit clients are chosen in compliance with the Credit Policy requirements.

**2. Financial administration division:** The location of the credit proposal, disbursement, monitoring and credit recovery offered by all divisions can be managed by this Division.

**3. Marketing and public relation division:** This Division works mainly to develop the marketing network, to incorporate marketing strategies and trade marketing principles.

**4. Audit and inspection division:** All the financial status and activities of the overall company can be managed by this division. They provide each department with the overall budgetary cap for the respective year.

**5. Common service division:** All GENERA operations excluding the credit and financial sectors can be managed by this Division. All administration operations are planned by this Division and implemented.

**6. Human resource division (HRD):** This Division deals with workers as the organization's key asset.

**7. IT division:** IT tasks can be managed by this division. Each branch has its own IT Division and all branch wise activities are reported to the IT Division of the head office.

## **Types of IT Support**

- Network Setup
- Network Security
- Software Support
- Managed IT Service
- On demand IT
- Data Storage
- Database Manag

## **CHAPTER 03**

### **Tasks, Events and activities**

#### **3.1 Daily tasks and activities**

I am Completing my intern from Rupali Bank Limited(RBL) in Network Operation Center under their Information Technology(IT) department. They Treated me as like their Employee. IT Department Maintain their work and Activities with 5 Dayes in a week from Sunday to Thursday Working houre in IT Division is 10:00Am – 6:00 Pm. Basically, My Intern time was 10:00 Am – 4:00 Pm from Sunday to Thursday. I have Started my Internship from 16 October 2019 and Ended 15 February 2020.

They Trained me lot of IT future Information Technology Monitoring and Maintenance-

- A) Information Security and Service management (ISSM)
- B) Channel Management System (CSM)
- C) Infrastructure- Data Center (DC) and Disaster recovery Site (DRS)
- D) Application Solution System (ASS)
- E) Network Management System (NMS)

In Internship Period I had to do this Type of Work which assigned by the Authority.

1. Creating and Sending Fault Report
2. Monitoring sites (For Assign terminals)
3. SMS Sending (For fault sites and transmission to individuals zone of RBL)
4. Mail Sending (For fault sites to Vendor/ Third Parties)
5. Support Phone call for help Maintenance work
6. Help to network team
7. Configure Cisco Branch Router

8. Configure Cisco ATM Router
9. GSM Configure Cisco Router

### **3.2 Events and Activities**

I may complete my Internship works. The work Environment IT is an Evaluation of the monitoring and Logically Maintenance work to Maintain Information Technology System. Planning is basic for Transitory Positioning is the Primary Place, When a Company Handel some parts in the midst of passage level Position, by then it is Required to offer Getting Ready to Address the Issue. Issue has been identified and Planning can be handling it.

### **3.3 Project Task & Activities**

I have lot of Achieve from Rupali Bank Limited. It is a Beautiful It was a chance to job with RBL Bank team. I can waction some project with them helped the team.

Here is some Project

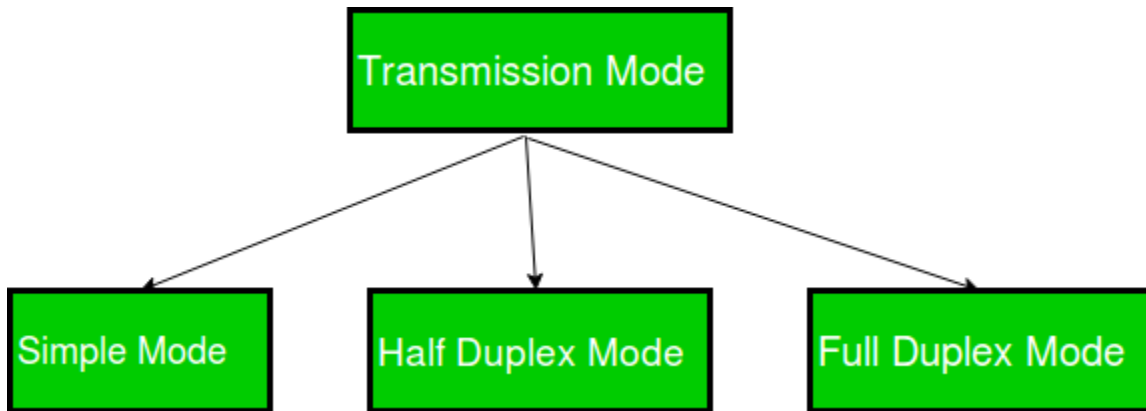
1. Configure Cisco Branch Router
2. GSM Configure Cisco Router

### **3.4 Introduction of Basic Networking**

#### **Transmission Modes in Computer Networks**

The mode of transmission means data transfer between two devices. It is also known as the Mode of Communication. Buses and networks are designed to allow individual devices that are interconnected to communicate. Three modes of transmission mode exist—

- Simplex Mode
- Half-Duplex Mode
- Full -Duplex Mode



### **1. Simplex Mode**

In Simplex Mode, the Communication is Unidirectional, as on a one-way Street. Only one of the two Devices on a link can transmit, the other can only receive. The Simplex mode can use the Entire Capacity of the Channel to Send Data in one Direction.

### **2. Half-Duplex Mode**

Each station can both transmit and receive, but not at the same time, in Half- Duplex Mode. If one device is sent, only Receive and Vice Versa will receive the other device. The Half-Duplex mode is used in cases where contact in both directions is not possible at the same time. For each direction, the entire channel capacity can be used.

### **3. Full-Duplex Mode**

Both stations can transmit and receive simultaneously in Full-Duplex Mode. Signals going in one direction in Full-Duplex Mode Share the link power with signals going in another direction, this sharing can occur in two ways.



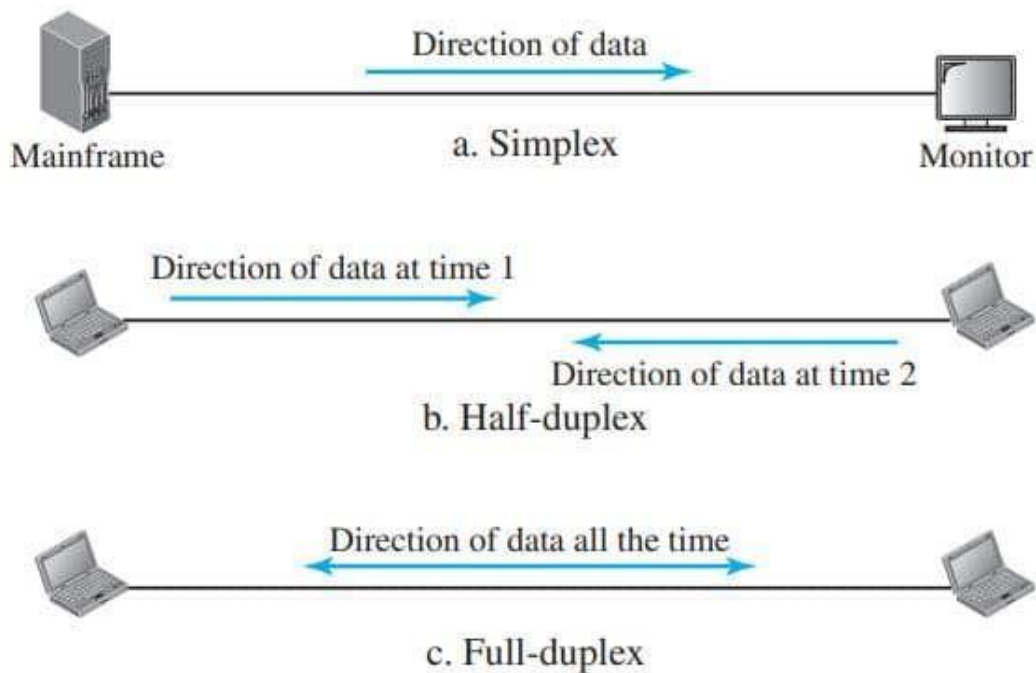


Fig 2.3: Type of Communication System

### 3.5 About IP Address

IP Address stands for address for Internet Protocol. It is an identification number associated with a single machine or network of computers. When connected to the Internet, the IP address enables information to be transmitted and retrieved by computers. An internet protocol address enables computers to send information and receive it. Four types of IP addresses are available: public, private, static and dynamic. There are two variants of IP that co-exist on the global internet at the moment. Version 4 ( IPv4) for IP and version 6 ( IPv6) for IP. IP addresses consist of binary values and drive the routing of all internet data. IPv4 addresses are 32 and IPv6 addresses are 128 bits long, respectively.

#### Classful Addressing

The 32 bit IP Address is divided into five Sub-classes. These are

- Class A
- Class B
- Class C
- Class D
- Class E

<i>Rule</i>	<i>Minimums and maximums</i>	<i>Decimal range</i>
<b>Class A:</b> First bit is always 0.	00000000 = 0 01111111 = 127	1 - 126
<b>Class B:</b> First two bits are always 10.	10000000 = 128 10111111 = 191	128 - 191
<b>Class C:</b> First three bits are always 110.	11000000 = 192 11011111 = 223	192 - 223
<b>Class D:</b> First four bits are always 1110.	11100000 = 224 11101111 = 239	224 - 239

Fig 2.4: Classful of IP Address

### 3.6 Overview of Rupali Bank Limited (RBL)

Rupali Bank Limited the merger of three (3) erstwhile commercial banks i.e. Muslim Commercial Bank Ltd, Australasia Bank Ltd and Standard Bank Ltd. Rupali Bank Limited Connected Bangladesh Telecommunication Limited BTCL Approval ISP Vendor Company with Agreement their Paetnership and brought bandwidth.

List of Five (5) vendor Company-

1. **Link 3** - Technologies Ltd is a full-service IT solution provider that has been operating with a very high degree of performance in the Bangladesh sector for over 18 years.
2. **ADN** - ADN Telecom Ltd was the leading provider of ISP, MPLS, IPLC and IP telephony services in Bangladesh in 2003.
3. **Metro Line** – Metro Net Bangladesh Limited started its Journey in 2001.
4. **BDCOM Limited** – BDCOM is the official licensee of the Nationwide Internet service regulatory commission for Bangladesh Telecom. Data Contact Facility, IP Telephony and Monitoring System for Vehicles.
5. **Telnet** - A pioneer in IT Solutions and a specialist in Internet and Data Connectivity since 1996.

New Added Vendor Company List:

- i) BRACNet
- ii) Premium Cennectivity
- iii) Rank IT
- iv) Alap Communication
- v) BBTS
- vi) BTS Commnication

### **3.7 Network Support**

Network Support team provides connectivity solution between Head office to Branches, ATM, DR, Components of network devices are-

- 1) Mikrotik router
- 2) Switch
- 3) ATM Router
- 4) Branch Router
- 5) Network Workstations

## 6) IP Phones

Total number of Branches for RBL is 568, all these branches are connected to head office through vendors, with the help of vendor link two different kind of connectivity are maintained, LAN connectivity physical layer connectivity also known as layer two and layer 3 device connectivity Maintained with optical fiber. Other connectivity is WAN connectivity wireless connectivity Maintained by Radio frequency link. If any Branch gets slow connectivity or ATM link is down during banking hour then network team is informed about it. Team members try to solve problem from their end if problem still persist then vendor is informed to check from their end. If the problem is not solved within one or two days ticket is generated, which impose penalty on vendor payment. In the mean time as a redundant link a 4G modem can be used to perform important banking activities.

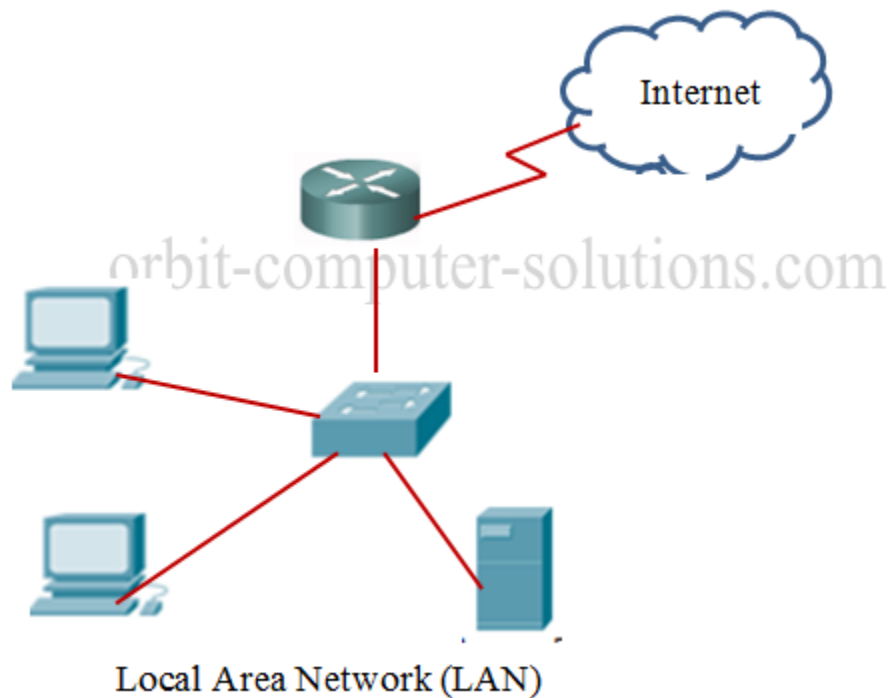


Fig 2.5: LAN Connectivity

For LAN Connectivity Network Design it is a local area network it use to two or three Users. With the help of vendor link two different kind of Connectivity are Maintained LAN

Connectivity physical layer Connectivity also known as layer two and layer 3 device  
Connectivity Maintained with Optical fiber.

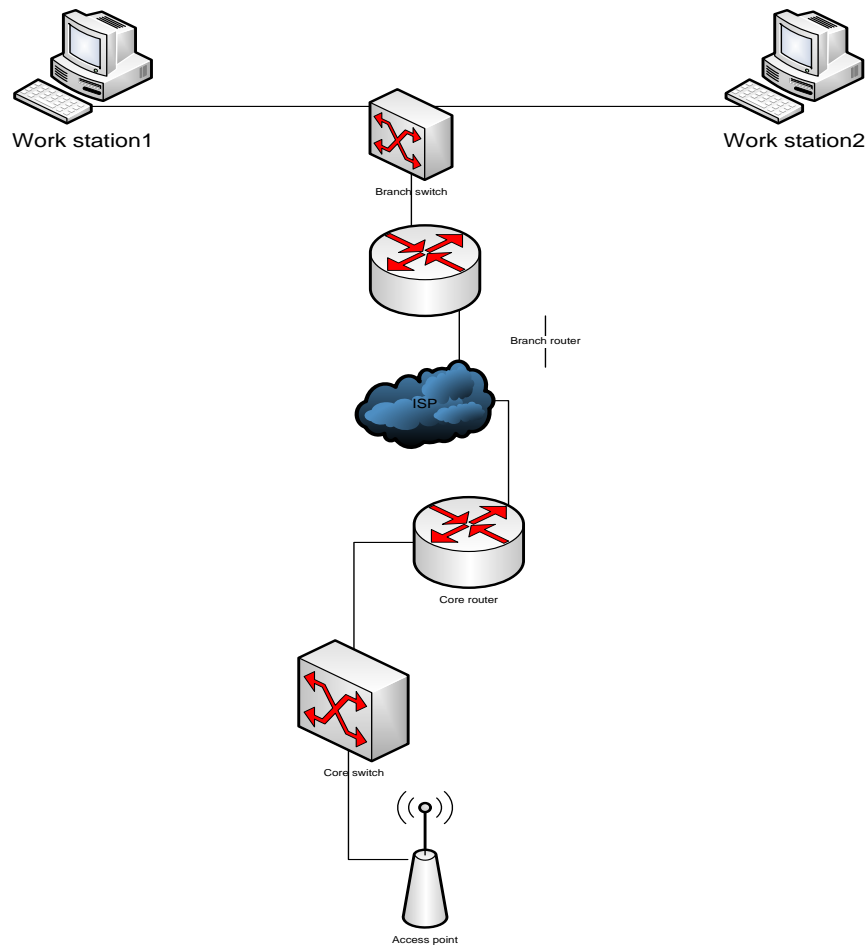


Fig 2.6: WAN Connectivity

For WAN Connectivity same mac address security cannot be used, because it is not secured for WAN connectivity. The Links to the Branches can monitored by nagios software, and check connectivity through ping. Destination and gateway Ips are pinged for checking

connectivity. For evaluating network performance both Lan and WAN two parameters are checked these are latency and throughput and packet loss of any link. Network latency is the measure of time taken the packet for one round trip, when packets are sent by sender. Throughput is defined as the quantity of data received / sent by host, for testing a link or gateway it has measuring of mtu.

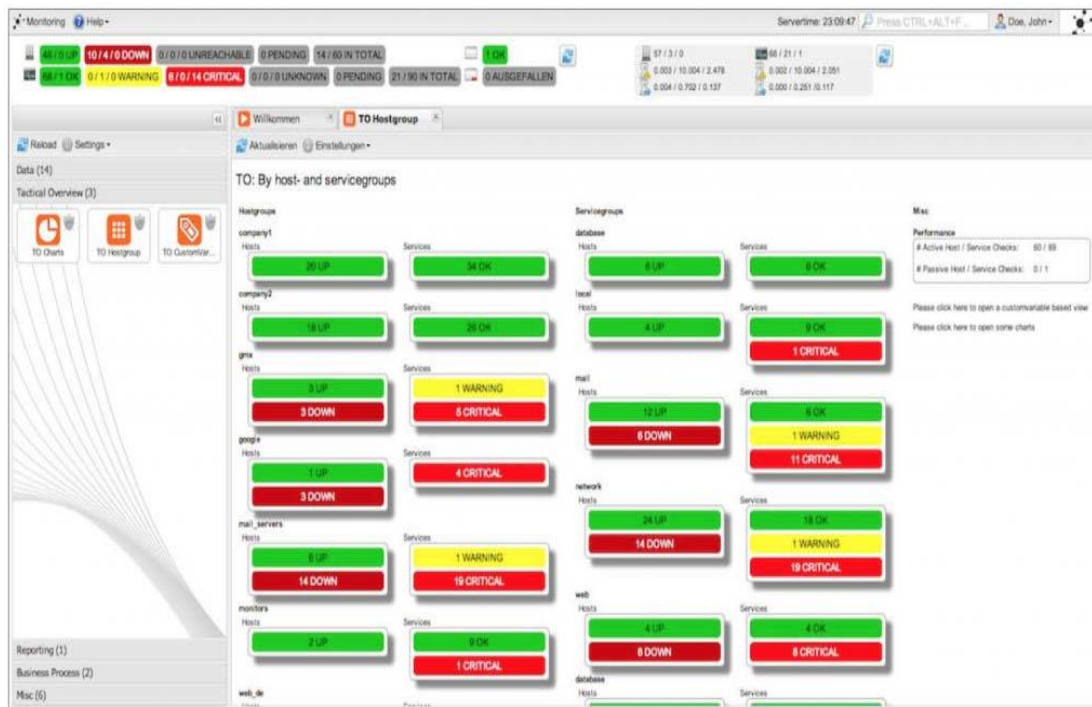


Fig 2.7: Nagios Monitoring software

For Monitoring software Nagios(Critical Link). It monitor All critical network link of vendors. When any branch link down, its monitore by the Nagios software all critiaical information and all running network show the software united commertial bank is use nagios software version 4.3.4

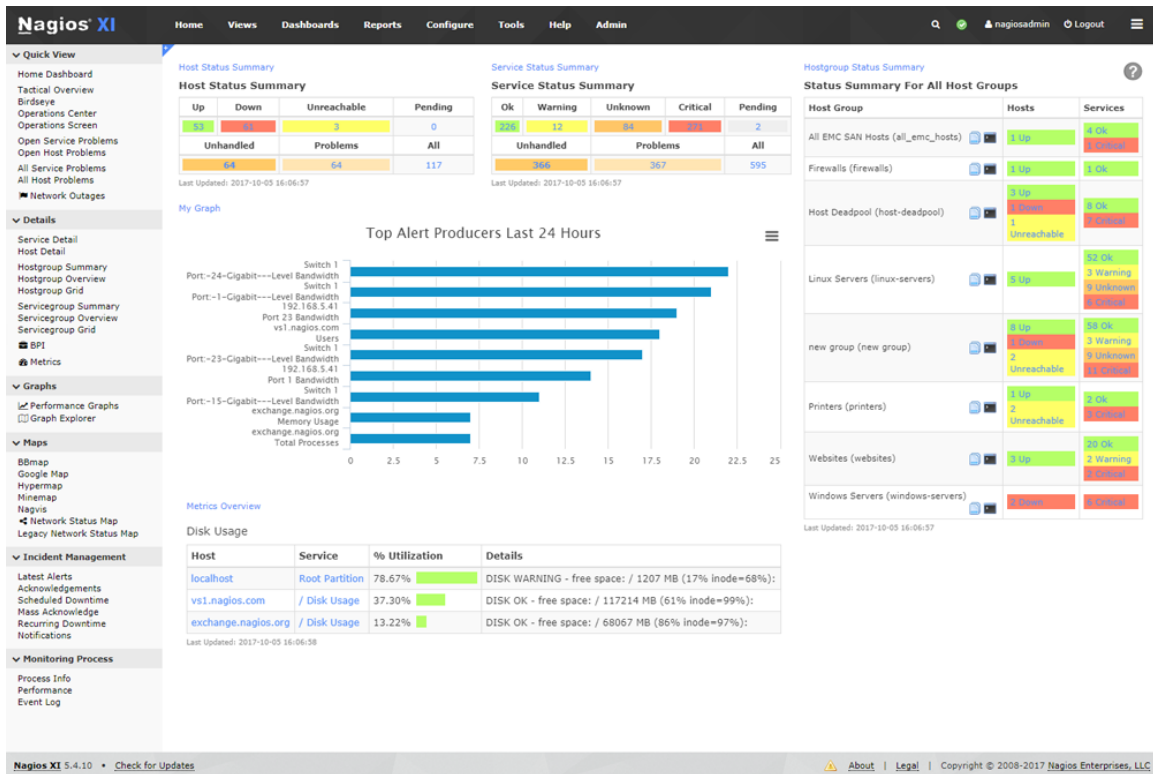


Fig 2.8: Nagios monitoring software all Network monitoring system

For Nagios Monitoring software all network Monitoring system.it monitor all network system. All Barnch and ATM are monitoring this nagios software. These ISP vendors are connected to all districts and division of Bangladesh to provide their service. These ISP vendors in division are all connected to the corporate ISP Branch. Now, these connectivity are provided to UCB division branches. All ISP vendors are connected through ring network with their head office, then connectivity through WAN connectivity.

### 3.8 Generic Routing Encaptulation Tunneling

Show Below Tunnel Connectivity network design its show tunnel configuration of a system. When head office links are configured for all the branches and ATM these links are configured through ISP. So, a secured tunnel is required to pass encypted data from

head office to branch and vice-versa. These tunnel are assigned with source and destination IP for both core router 1 and core router 2 . Heare Rupali Bank Limited use MTU

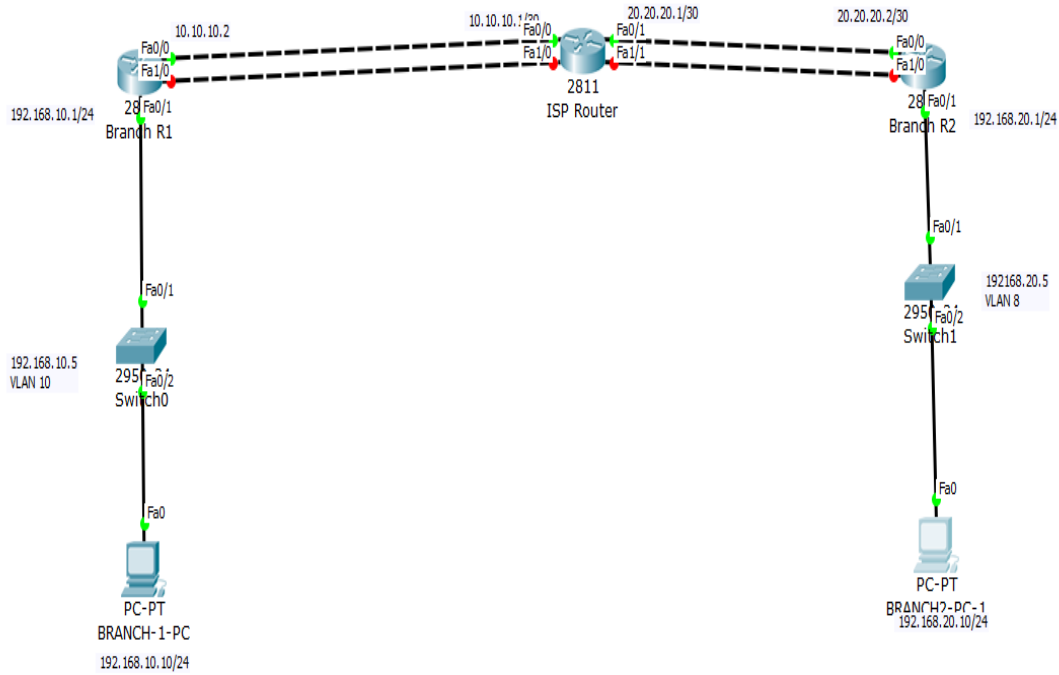


Fig 2.9: Generic Routing Encapsulation tunneling

### 3.9 CISCO 881G-4G GSM Based Router Configuration

Shows the below CISCO 881G-4G GSM based router. This router is use to Rupali bank ba\branch office and ATM also. I configure GSM base CISCO Branch & ATM router and ready to distributed branch and ATM. At first I was connected to antina and then configer GSM. In this router we use banglalink or GP IP activated SIM. Then I configured initial configuration and then ready to distribute. So, I configured this router very carefully and securely.





Fig 2.10: CISCO 881G-4G GSM based Router

### 3.10 Rupali Bank Network Design and Configuration

Show the Below Rupali bank network design & Configuration. For LAN/Ethernet connectivity from branch to core 1 core N and datacenter through ISP link, Firewall security is provided through mac address filtered. When any traffic is router from branch

to head office, traffic is initially filtered through internet firewall before hitting core switch. For WAN connectivity same mac address security cannot be used, because it is not secured for WAN connectivity Successful ping result of a system on one network to other network here 4 packet send and 4 packet successfully send no packet loss here.

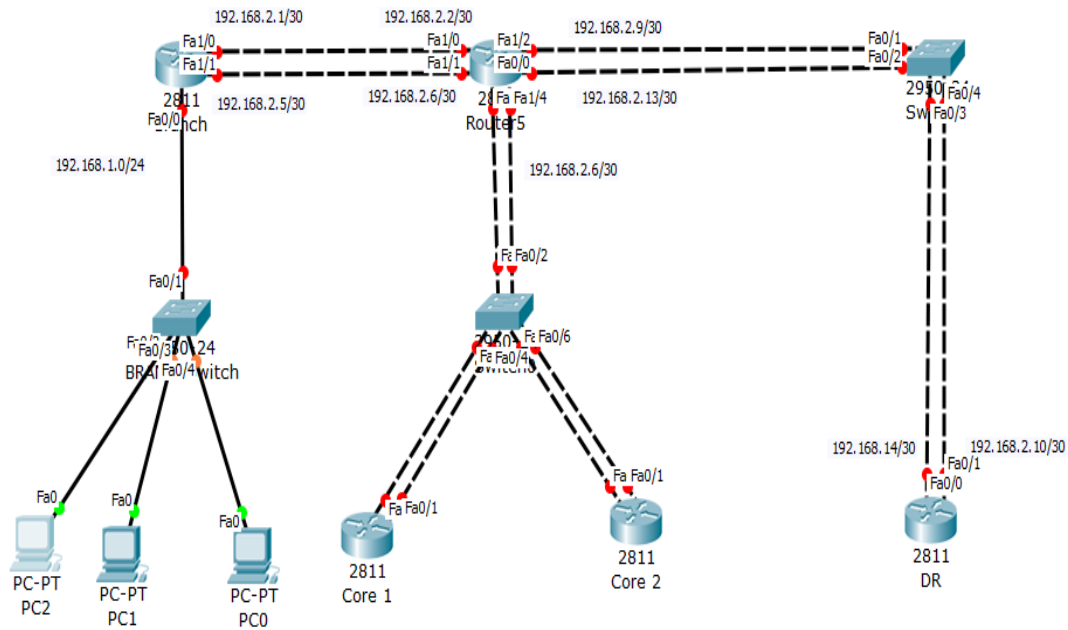


Fig 2.11: Rupali Bank Network Design & Configuration from Cisco Packet Tracer

### 3.11 Mail and Phone call Support

After sending SMS bank team to mailing to the responsible vendor for take actions. If the site / sites/ transmission down for POWER issue or TBL own site then there is no need to send mail, but when alarm says there is no power issue and vendor is like that summit,

Fiber@ home , Banglaphone and Citycell then bank team needs to mail this for mail to;  
Vendor and CC

### **3.12 Challenges**

- Server falls flat for long time
- Electronic token framework isn't in utilized
- PCs are not state of the art
- New Programming named CBS is currently running for couple of months.

## CHAPTER 04

### Competencies and smart plan

#### 4.1 Competencies earned:

Quality-dependent networking market, competition to increase higher achievement. This means they don't have great skills in this division. Device troubleshoot performed & fixed all process problems. Own-developed monitoring tools. Track various types of work orders depending on customer requirements. A complete realization of hard work is a prerequisite to every good past.

#### 4.2 Smart Plan:

- This is critical to monitoring all the terminals if you want to performance better
- Check out many devices & smart technology for unique screen resolutions & idea.
- Release gain ideas in a unique way.

#### 4.3 Reflections:

My goal of a Network engineer and I am working with it sincerely, For reaching my aim is my responsibility is to create a splendid, creative and professional network based portfolio tfor the desire of my carrier and my work. My portfolio is a reflection of my creative work & my success.

## CHAPTER 5

### Conclusion and future career

#### 5.1 Conclusion:

I can gather a lot of experience from that entry level role, which will be useful in my future works. I would be prepared to do a lot of things about device observation and more help to build an efficient way. I need to state that this entry level role is useful for the executive's transporter's observing system to make me fruitful anywhere in the system section. This internship inspires me, encourages me and is very good for my career. I have to learn to incorporate possibilities which have helped me increase my work experience in this bank. This organization gives me a strong opportunity to learn and explore my ability. I'm very grateful to them.

#### 5.2 Scope for Further carrier:

This internship, my future career, is going to support me. So, I've got more to say. It is truly a hard struggle to find a good job in a good company. It can be a real challenge to find a great career,

- To be work network company
- Data and Information Collection
- Good communication
- Ability to team work
- Work as a network monitoring concern.
- Work in ISP based stage.
- Work at as a network Engineer.
- Work at as a specialized help & security supervisor.

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## Appendix A:

### Internship reflection

In the term of final defense three options are available Project, Internship & Thesis. I choose internship because, I thought it will give me a perfect idea the job market. I started my internship journey and it great turning point for me. As a skill jobs intern my wish is to make a portfolio which will bring for me my success. This Internship is over and I got a job offer. This internship made me confident to working any software & network based company.

## Appendix B:

### Company Detail

Head office

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Fax: +88-02-9564148, +88-02-9552671

E-mail: info @ rupalibank.org

[www.rupalibank.org](http://www.rupalibank.org)



# INTERNSHIP REPORT INTERNSHIP ON BANKING (RUPALI BANK) NWTWORKIN SYSTEM

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