

Internship on Network security system in Sonali Bank Limited

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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APPROVAL

This Project/internship titled “**Internship on Network security system in Sonali Bank Limited**”, submitted by **Md Ahsanul Haque**, ID No: **191-15-12206** 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 06-01-2022.

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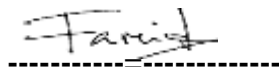
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It is hereby announced that the work described in this internship report was carried out by me under the supervisor of **Ms. Farah Sharmin , Sr. Lecturer** computer science &Engineering , University to partially meet the requirements for Bachelor's Degree Computer science and engineering science. This article is my real work, and I declare it to be. I certify that no part of this article, or any part of it, has been submitted elsewhere for the purpose of obtaining a degree.

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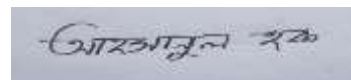
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I also like to express my gratitude to everyone else who has supported and encouraged me during my internship, whether directly or indirectly. I am grateful To Sonali Bank Limited for providing me with an internship opportunity at their IT Operations Center. Many helpful people assisted me in writing the report by providing data, information, procedures, and Management processes as required, and by clarifying various concepts. Also I would like to thank **Dr. Touhid Bhuiyan** Head of the Department of CSE, as well As other faculty and staff members of Daffodil International University CSE Department, for their assistance in completing my internship. I like to thank my Parents in particular for their support and motivation during my life and Professional career. Finally, I would like to express my heartfelt gratitude to Allah, the beneficent, the Sublime.

ABSTRACT

This report is an analysis of the It & Network operations and performance of Sonali Bank limited for last some years. This report will provide an assessment and analysis of the sector position and activity conditions of the SBL. Also using figures from the financial statements for the last five financial years (2016-2020). The report is divided into the following six parts- Introduction, Overview of SBL, Special study on Uttara Model town branch, Dhaka, An analysis and findings of It Performance of Sonali Bank Limited, Recommendation & Conclusion.

I wrote this paper after completing a four-month internship at Sonali Bank Limited. This internship program provided me with the ability to learn about the day-to-day activities of communications with clients. The emphasis of this article is on my observations and Bank experience.

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CHAPTER 1

INTRODUCTION

1.1 Introduction:

Network security system is now one of the most needful system, practically in every commercial company's and enterprise are working for digitalize the banking field. At this present time in Bangladesh Banking field who already working to digitalis their economic and financial system. Networking security system is the most needful element to digitalize to our country banking field. In Bangladesh Sonali bank limited have total 1215 branches. For digitalization this bank use most advance secure and powerful network security system in banking sector, also they maintains main central data center which is connect directly to the all branches of sonali bank. That's the main think I would have choose an internship student at sonali bank limited. Therefor I want to gain some well practical networking security system experience. How they make networking operations, monitoring networking tools etc. Here as per the result I would choose Sonali bank limited to fulfill my goal as much needed with exact practical knowledge of network security system.

1.2 Motivations

As a Computer science of engineering student, I am fully interested at networking security system related knowledge in banking sector. From my small recherche I know that the banking company have the most secure networking security System infrastructure. SBL is the largest and most dependable bank at Bangladesh in banking field. To gain networking security system experience I hardly want to do my university internship program at any kind of establish and well developing companies like sonali bank. Limited. Networking security system and it skills give me batter motivation in real life experience which is very meaningful to me. To this Internship I think I have some contribution to develop of digital Bangladesh on my country.

1.3 Internship Objective:

For my internship I have some internship objective.

To learn well real life working experience in banking.

How to manage customers

Knowing LAN WAN data control

Gain network security system deep knowledge

How to manage it operations

Solving real life networking security problems.

How to create a strong and secure network system.

To gain Network and it functionalities

Fell real life job experience in this platform.

To increase my It knowledge.

Gain banking engineering experience in network security system.

1.4 About Sonali Bank Ltd:

Sonali bank is one of the Largest government bank in our country. Sonali bank is a government bank since 1972 and the bank nationalization at 1972 after independence of Bangladesh. Sonali bank is one of the biggest and leading commercial national bank in our country. Sonali bank was started their company as a public limited company on 15/11/2007. At this time this bank completely own by the government of Bangladesh under the bank of Bangladesh bank. Sonali bank is fully licensed and much professional bank under the central bank of Bangladesh bank. The bank main objectives are focusing on their customs to rallies and incepting what their customers exactly wants. For commercial banking field our country has suffer to charges this bank it represents their bank in new and digital market section.

1.5 History of SBL:

The bank was founded in 1972 as a result of the Bangladesh Bank (Nationalization) order which managed and nationalized every branch of the bank of Sonali Bank Limited of Pakistan, Bank of Bahawalpur, and the Prime Bank in East Pakistan until the Independent of Bangladesh in 1971. This bank paid the total amount of Three hundred million taka when it was opened. Sonali Bank started their banking business on 17/4/1995 with some unique authorization of Bangladesh Central Bank the amount of taka two hundred million. The bank paid up to 700 million of taka at fourth generation commercial and economical bank the bank was elevated. In this recent time the bank are 4th generation commercial banking sector in our country. Mainly the bank work in under the bank of Bangladesh bank which is the central bank of the country of Bangladesh.

1.6 Nationalization of SBL

In this time directly Bangladesh government are take over the full authority and take that decision that to adopt this bank. Bangladesh government also take the decision are that adopt the whole pattern of SBL goal which are very much needful to our country. For this matter that order to work in the above monitoring the bank in this country according to the 26/3/1972 was promulgated.

There are some new bank are

1. National Bank Pakistan
2. Bank Bahawalpur Ltd
3. Primer Bank Ltd
4. Sonali Bank Ltd
5. Rupali Bank Ltd
6. Jhonota Bank Ltd

And more to.

1.7 Branches of SBL

Sonali bank have their total 1126 Branches in over the world. In this time recently opened branch are Rajsahi university campus branch at Rajsahi and early they open their social activities and services. Sonali bank have total 467 local branch in their under. For that they have 746 bank are opened at rural development places and 2 bank are located at overseas. Two overseas bank are located at Dubai sonali bank and others are UK .The overseas bank are directly remit up to their destinations across Bangladesh include Dhaka Chittagong Sylhet Khulna Tejpur and others.

CHAPTER 2

System of Management at SBL

2.1 System Organogram of Sonali bank

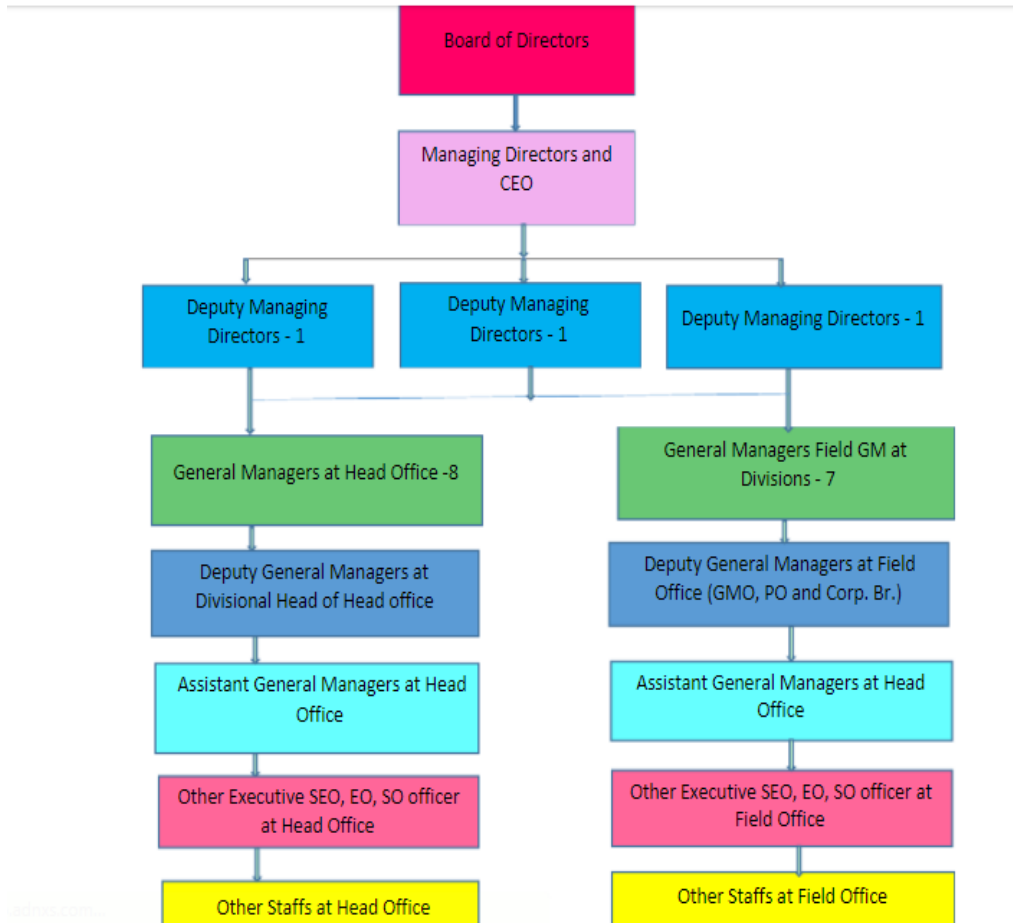


Fig 2.1 : System Organogram of Sonali bank

2.2 Hierarchy Management of SBL

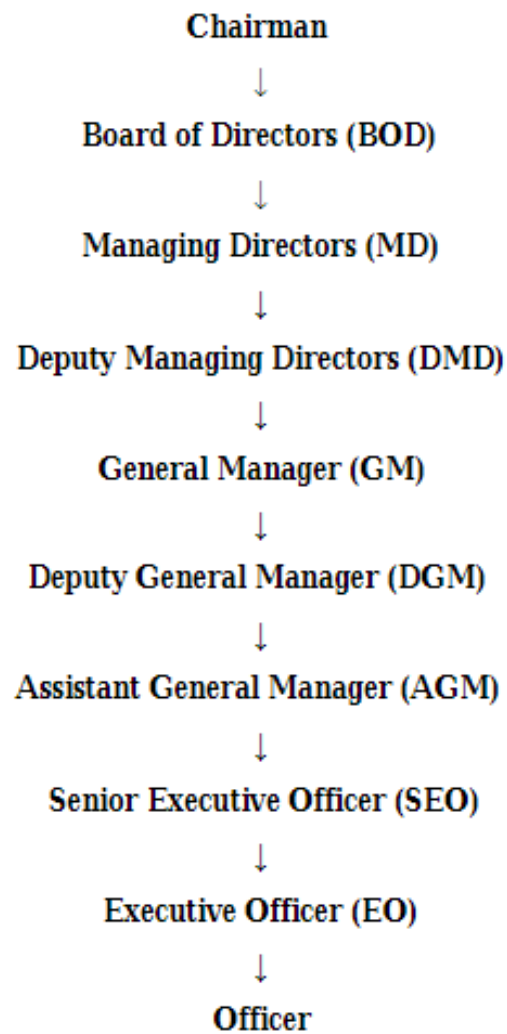


Fig 2.2: Hierarchy Management of SBL

2.3 Management system of this branch:

At this present time this branch assistant general manager name is Monirul Islam who is the responsible person for all kind of activities at this branch. He also answerable to all kind of activities to the main head branch regional officers for any kind of mistake and failure of this branch. All time he keeps very busy to himself for managing and mobilization of all kind task. There have three principal officer under the AGM and they manage the different section of this branch one manage the account section her name is Rebeca sultana. Husna tabbasum she is the principal officer of Tax and vat section also account opening section. Raziea sultana is the principal officer of the general section. This branch also have and it section and this section manage an officer her name is Arifa akter who maintain thi whole It and network system lonely. She is very intelligent and very smart. In this branch under the principal officer there have some officer work they directly face the customers and their clients. In this branch all the staff are well educated and well experience in banking field. At this branch every staff they love their work sincerely.

2.4 Departments of this Branch

- *Account opening department
- *General banking department
- *Loan management department
- *Deposit management department
- *Tax Department
- *Cleaning department
- *Gov: socio department
- *Pension department

Also some others

2.5 Account opening department

Sonali bank account opening format are given bellow:

Firstly customer need to take account opening from to the help desk or others desk.

Customers need two copies of passport size photograph and one copies of nominees.

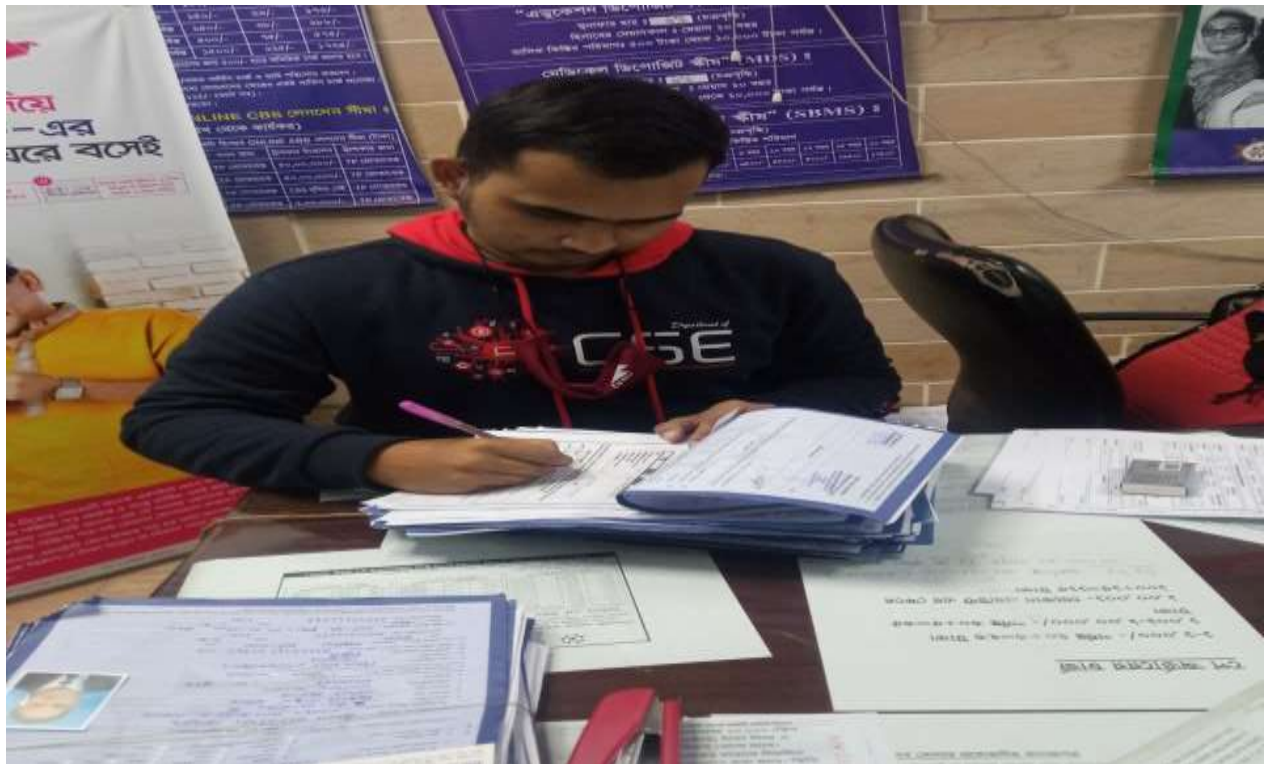
Account holder need to signature behind their photos and also signature the nominees copy by account holder.

Account holder to be need her NID card copies also nominees both are need to verified in the authorities by the sonali bank limited.

Also need their address proof documents like gas bill Water bill, Electricity bills etc.

At last they need to be create a signature card front of the account opening sector head.

Then they submit their whole document at account opening section and the account opening officer process the next steps.



CHAPTER 03

Fundamental of SBL

3.1 SBL Missions

In this complete banking field sonali bank have some important mission for the people of our country. This bank firstly want to know what their customers exactly want to the bank, then they make their plan accordingly step by step;

- *Creating good places for stake holders.
- *Contributing economic development in this country.
- *Providing update technology base services.
- *Make sure fast well growth strategy.
- *Suitable balance strategy.
- *Banking product introducing.
- *Taking rural development project.
- *Creating local earning opportunities.

And many others to do

3.2 Sbl Corporate profile:

Here given the corporate profile of SBL management

Company Name	Sonali Bank Limited(SBL)
Chairman	Ziraul Hasan Siddqui
CEO and MD	Ataur Rahman Prodhan
Secretary	Mr.Tauhadul Islam
Legal status	Public limited company
Incorporation Date	3/6/2007
Vendor agreement date	15/11/2007
Authorize capital	700 million
Paid up capital	4100 million
Numbers of employees	18200
Total branches	1216
SWIFT	BSONBDDH

Table 3.1: SBL corporate profile

3.3 SBL Objectives

SBL have some valuable various types of objectivist are follows:

1. Collecting fixed deposits
2. Inspire saving for customers
3. Making more customers
4. Loan management
5. Creating batter exchange
6. Trade and ecommerce
7. Help industrial business
8. Provide batter customers service

9. Making better profits.
10. Help poor people by giving loan
11. Rural development project

Here above given some objectives are sonali bank limited .without this objective this bank are fully responsible to provide this all type of service.

3.4 SBL Strategic significance

Sonali bank is the main leading commercial bank in Bangladesh that's the reason Sonali bank have some responsibilities for their valuable customers, management and shareholders also other commercial business. The bank take their full responsibility to their customers satisfactions and give them the trust their service quality are the best to the other commercial bank, they deliver product timely and many others. In banking every bank have their some general goal to be fulfill. At this recent time in banking field banking network security are the most common think in conservancy. The bank helps to their valuable customers to their well thinking trough secure banking system.

3.5 SBL functions

There are some principal functions are:

- *Collecting fixed deposit to their customers
- *Cash transaction to customer's current account
- *Collecting utilities bills.
- *Manage loan for customers.
- *Online e-wallet services to customers.
- *Money transfer to others destination.
- *Manage senior citizen pension

*Freedom fighter pension

*Providing healthy food during the time of food scarcity.

*Collect passport application fee.

3.6 Core business modek of SBL

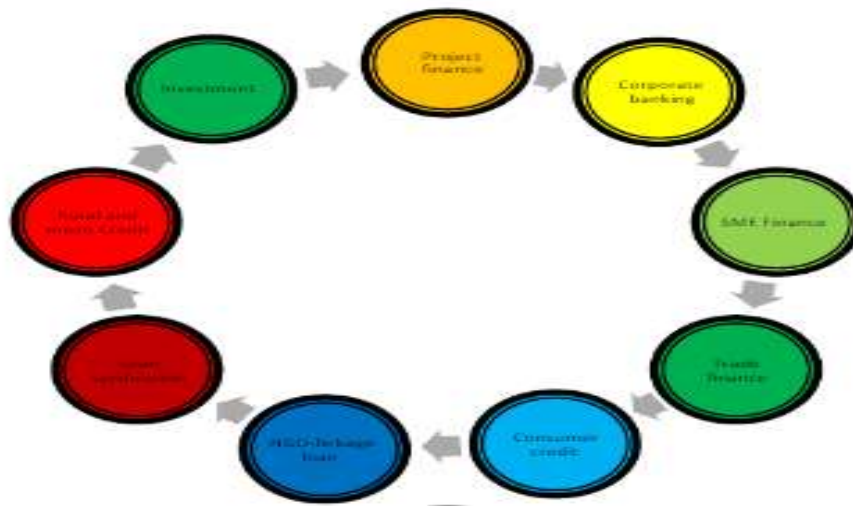


Figure: Sonali Bank's core businesses

Fig 3.1: Core business model of SBL

3.7 Small and Medium Enterprise (SME)

SBL secure to their most priority to their SME finance of eliminating poorness by rising the SME loan chart at economic nondevelopment place .customers managing to their high precdency base on SME credit insurance for the women and local enterprise. SBL also working for the development to their economic conditions.

3.8 Economic social responsibility.

For their ECR development and busyness practices of the bank take some valuable program at very lower interest rate like:

*Special system for given credit card to freedom fighter.

*Studentship for good students

*Credit card system for schools teachers.

*Special credit card system for other country workers.

*Green banking system

*Solar plans

3.9 Product of SBL

*Providing SME

*Saving money

*Locker provide

*Online service

*Credit card

*Giving loan

*Trading

*NGO loan

*Worldwide transaction.

*ATM machine service.

3.10 Objective of this branch

This branch name is Uttora model town .this branch location are Dhaka Uttora, Rajlokkhi. At sonali bank limited every branch have their own ojective.at this branch accordingly the rules in our country for economic development arena to given loan in various kind of different format and deposit to their valuable customers. At this place the bank are very popular to all other bank also this bank are too much busy bank like other branch.at uttora there are many business company available the bank try to give good loan to make their business stronger. This branch main objective are tax and vat collecting. For small business they can easily take loan from this bank .this bank make some valuable impact at this area to give their available service.

3.11 Weakness of SBL

- *Careless of Employees
- *Poor mobile banking service
- *Not much it experience of employees
- *Too many services
- *Poor online server system.
- *Loan recover problems
- *Have no proper guideline for customers.
- *Website not updated properly.
- *Most employees have less it knowledge's.

Chapter 04

SBL services

4.1 Common services of SBL

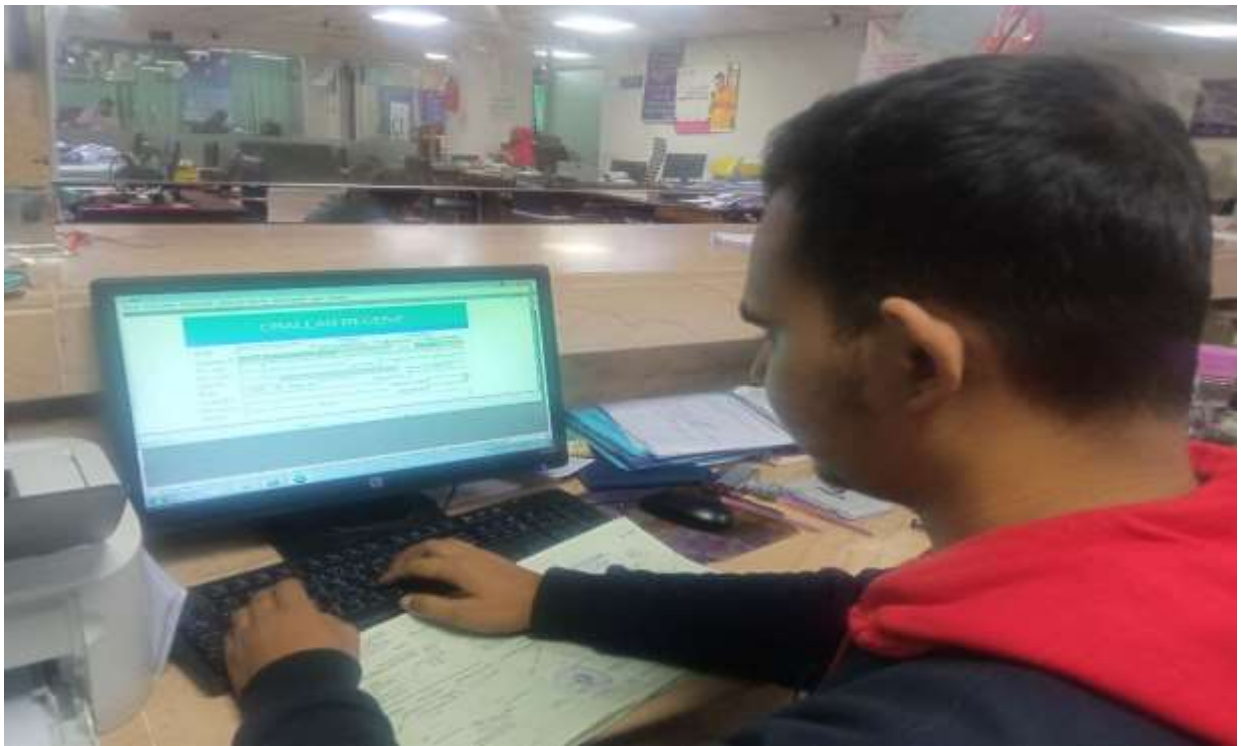
Sonali bank provide some common services to their branch that :

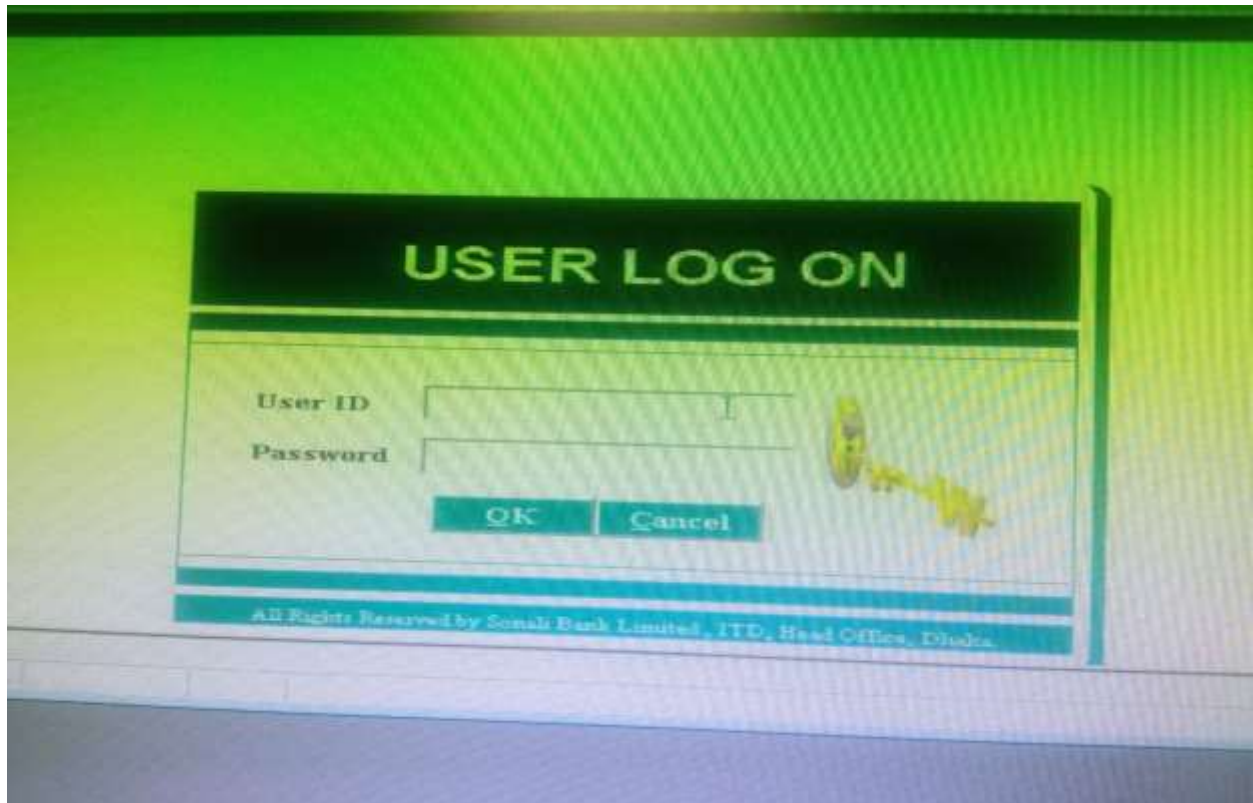
1. Utility bills collection
2. Municipal holding tax collect.
3. Collecting Passport fee
4. Given Credit card like VISA card
5. Jhakat cash collect.
6. Hajj cash deposit
7. Various types of vat collection
8. Provide locker to special customer
9. Monthly challan receive

Challan Receive from:

The image shows a screenshot of a computer screen displaying a 'CHALLAN RECEIVE' form. The form is titled 'CHALLAN RECEIVE' in large, bold, black letters. Below the title, there are several input fields and checkboxes. The 'ID No.' field contains '01271202112000578'. The 'Originating To' field contains 'MIRABA MODEL TOWN'. The 'Date' field contains '20/02/21'. The 'Mode' field is set to 'Cash'. The 'Fiscal Year' field contains '2020-21'. There are also checkboxes for 'Different Chalan Code', 'Different Name', and 'Different Amount'. The form is displayed on a screen with a blue background.

Fig 4.1: CBS challan entry receive from





4.2 Social service of SBL:

Some Social service are:

1. Senior citizen allowance management
2. Divorced women allowance
3. Allowance for Freedom fighters
4. Poor people allowance
5. Incapability allowance
6. Wager found allowance
7. Ecommerce banking
8. Online e-wallet
9. NGO loan sanction
10. Trade currency
11. Support for village people
12. Rural development project

4.3 Banking Function



Fig 4.2 General banking function

4.4: Online Bank Service

Sonali bank provide very limited online service are:

- 1 .Visa card
2. Mobile banking
3. E-Wallet
4. Online deposit
5. Online money truncation
6. Online payment.

Chapter 5

Network security protocol at SBL

5.1 Configure static routing

Configuring static routing is tricky think. Mainly this routing system are configured in the main entry point of every branch.

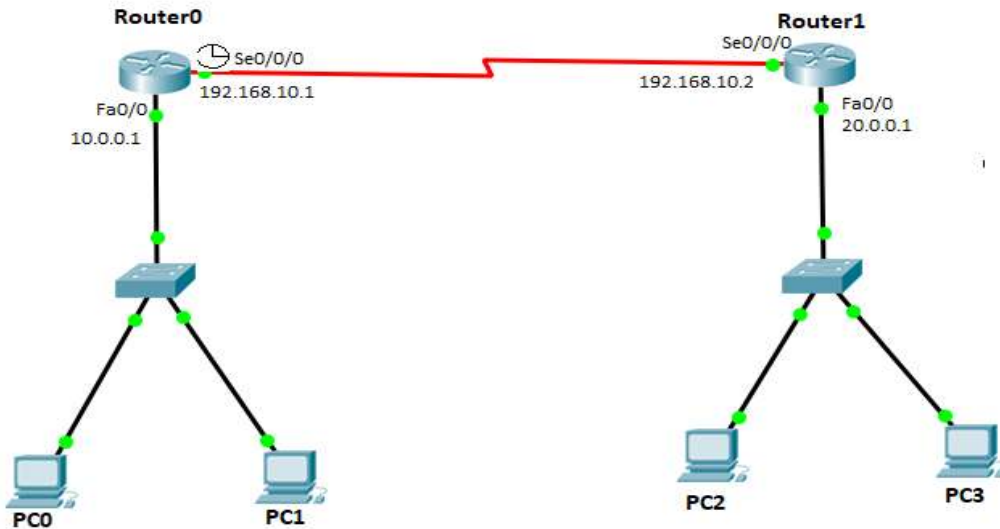


Fig 5.1: Static routin

5.2 Default Static routing

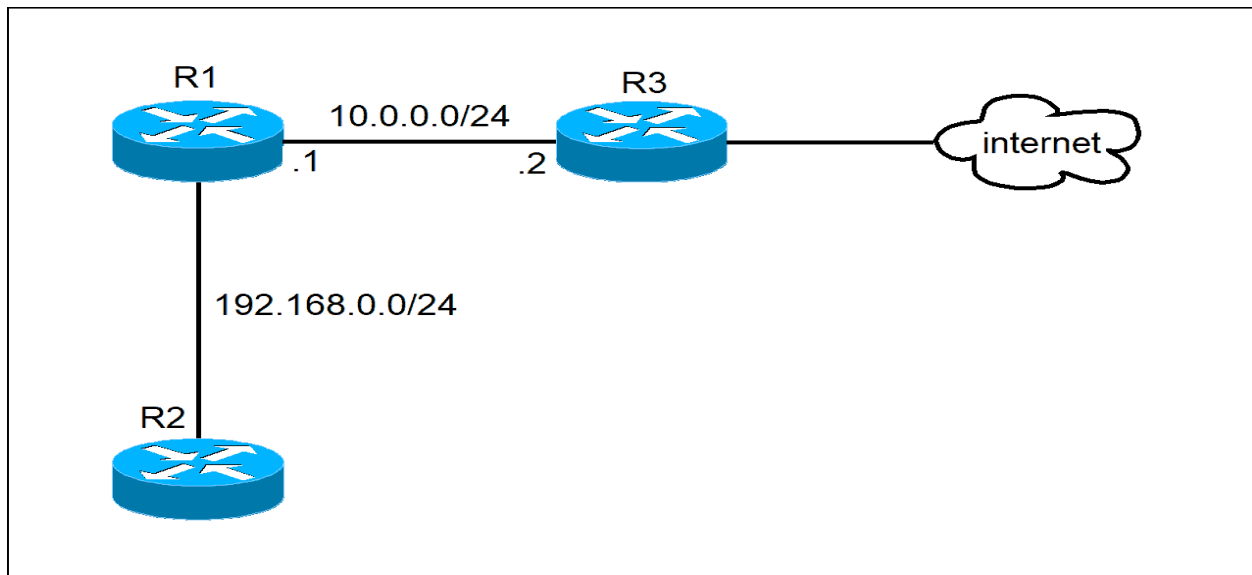


Fig 5.2: Default static routing

5.3 VLAN routing

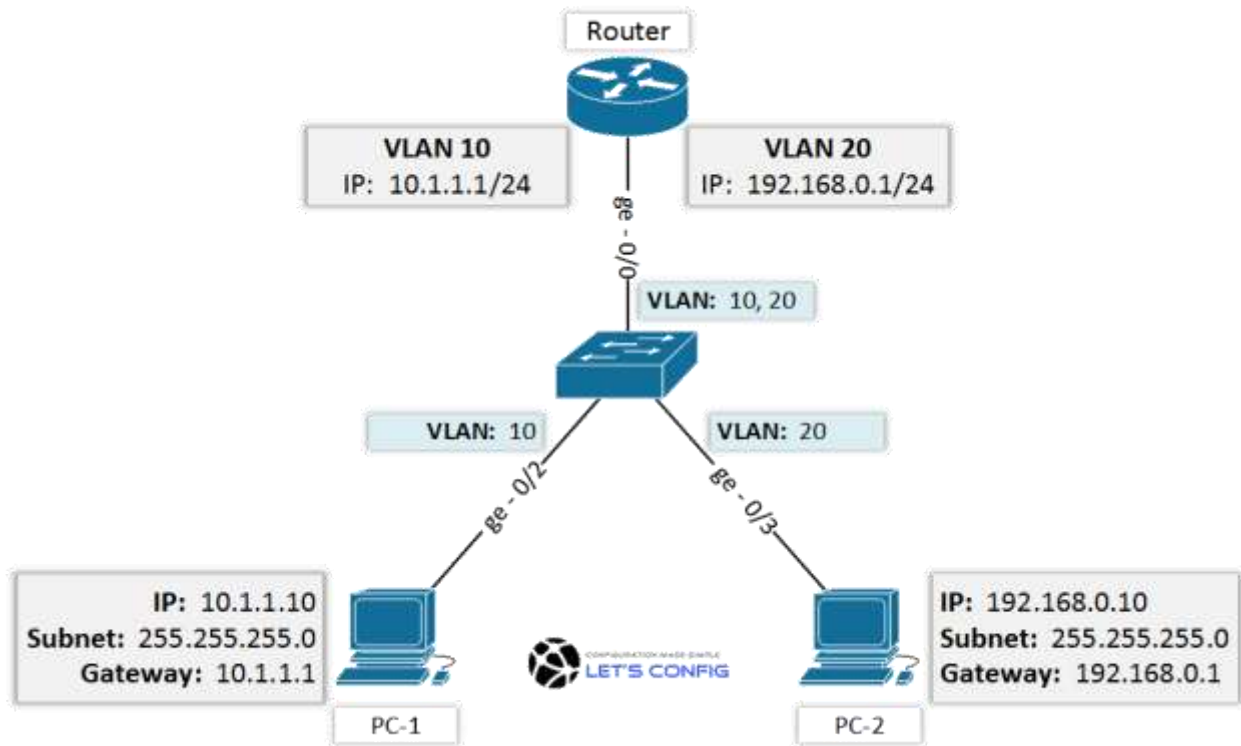


Fig 5.3: VLAN routing

5.4 Networking task

In this branch there have a networking and it officer who help me to the understanding and gain all kind of networking and networking security system real life experience and real life problem o





5.5 Domain name server (DNS)

The main server room have contain the DNS server.

Assume this network and domain are connected. They are all present on every host server Name of the domain.

Then you can connected to your local host using the specific domain name.

It can be done remotely, computers however do not understand the name. To convert onto numbers you will need to.

The ip address DNS server are maintain the mapping of domain to each host to their ip address.

5.6 File transfer protocol (FTP)

In this branch their main server room have a ftp server which server are connected to all of the computer of this branch. To this server there are have all kind of data application available for needs. This ftp server maintain the highly experience and professional it officer. Mainly Ftp server are used for sharing and transfer file between those computers. From this operation know how important ftp in banking's. Ftp server helps to the server under hackers attack .Banking ftp server are local host ftp server .This ftp server used only this branch and some authorize user who have the permission.

5.7Smart mail transfer (SMTP)

This server is one of the most secure and reliable server when client sending a message or mails to the customers. They also deliver that mail as soon as possible.

Chapter 6

CONCLUSION

6.1 Conclusion:

For my own research and knowledge I knew that Sonali bank have some dynamic and rising future in the banking field in our country at banking sector. This bank have more competitive professional time maintaining requiring and very well powerful skills and ability. So that's why I must want to complete my university student internship experience that's kind of supportive and well regrading companies who have a strong and very secure networking security protocol at this field. Firstly thanks to Allah and my respectful teacher and faculty members from Daffodil International University and the guidance of SBL who give me the confidence at this bank, I also thanks to my respectful supervisor and co supervisor who give me the all kind of instruction and give me the confidence to do this internship? I am very grateful to sonali bank were confirming in positive and well manner.

For some fact that I was very glad to learning opportunity during complete my internship at sonali bank. In sonali bank there is the main problem are leaking of time. Another explanation was the company's code of ethics, which prohibited employees from giving me more in-depth information. At this internship I observe that they are very avert by their customers' needs and not maintain corporate problem solving properly. They want to so their work very shortly with little information Sometime they not collect vip customer information properly. Despite the all kind of fact that I had very little amount of time to complete my internship, this significantly improved my understanding of networking activities.

6.2 Future Career

At sonali bank limited to complete my internship was too much helpful for me as a student also it was much exciting and entertaining to me as highly regarding degree in CSE. Allowing to me in this harder practical working experience taking my networking skill and real life working experience skills good to be use. For this internship at sonali bank I too much happy with my well respectful favorite institute Daffodil International University. During this internship my boss help me as a friend in facing to solve various kind of real life problem. For that I am very grateful to sonali bank limited to give me this kind of opportunity. My degree from my beloved university served as the foundation for this project.

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