

Department of Computer Science & Engineering
INDEPENDENT UNIVERSITY, BANGLADESH



Internship Report
On Critical Review of the Use of
Information Technology in the Premier Bank Limited.

Supervised by

Mohammad Noor Nabi
Senior Lecturer
Independent University, Bangladesh

Submitted By

Anika Tahsin Richi
ID: 1610037
Session: 16-17

Copyright @ year 2019, February

Letter of Transmittal

The Chairman

Department of Computer Science & Engineering

Independent University, Bangladesh

Basundhara, Dhaka

Subject: Submission of Internship Report.

Sir,

With due respect, we are the students of Independent University, Bangladesh Dept. of Department of Computer Science & Engineering, Session 16-17. It's a great satisfaction to submit our internship report on - Critical Review of the use of Information Technology in The Premier Bank Limited, Iqbal Center (10th Floor), 42, Kemal Ataturk Avenue, Banani, Dhaka-1213. It was a great honor for us to work as interns with such an exciting department of a renowned company. This internship report attempts to describe our observation, learning and applying during the internship period of this course. Now we want to submit our internship paper and to submit, we want your permission.

We therefore, pray and hope that you would kindly permit us to submit our internship report.

Thank you

Anika Tahsin Richi
ID: 1610037
Session: 16-16

Supervisor

Mohammad Noor Nabi
Senior Lecturer
Independent University, Bangladesh

Certificate

This is certifying that the report titled “Critical Review of use of Information Technology in the Premier Bank Limited” has been submitted by Anika Tahsin Richi, ID: 1610037 in partial fulfillment of the requirement for the award of the Department of Computer Science & Engineering, Independent University, Bangladesh.

Under my supervision and the following students, are accepted as satisfactory.

Supervisor

Mohammad Noor Nabi

Senior Lecturer

Independent University, Bangladesh

Co-Supervisor

Md. Mashuqur Rahman

SVP & Head of I.T Division

The Premier Bank Limited

Head Office, Iqbal Center (10th Floor)

42, Kemal Ataturk Avenue, Banani

Dhaka-1213

Executive Summary

The Premier Bank Limited is a reputed, successful and well known commercial bank. We are gathering some particular topic knowledge in this internship period in IT division with the IT officer. We also learn how to face different kinds of corporate environment practically. Basically we worked here two species group, mostly in group IT infrastructure and second one is network management. Those are both different topic but connected to each other. Group IT infrastructure is basically support team. They provide system support through VNC, Remote Accessing .In critical problem they send vendor or send IT officers for sending and instantly solved out the problems as soon as possible. System team mainly works for the accessories setup with troubleshooting problems, different kinds of root or admin permissions, active directory, policies etc. In network system we learn different types of server maintenance, protocols, IPv4 assigning with proxy and advance process with using trusted policy trusted root corticated. By specifying domain, branch code and IP address network team can monitoring every user details.

Acknowledgments

First of for the most part, We appreciate to bless All mighty Allah. We appreciate to, consecrate our comptroller. We are grateful to our honorable Mohammad Noor Nabi Computer Science & Engineering for giving us backing for this internship. We also appreciate the help of our honorable sir's who had helped us to confirm our internship. We want to convey our gratefulness to Md. Mashuqur Rahman, SVP & Head of IT division of The Premier Bank limited who helped us greatly by providing valuable suggestions whenever required in preparing our internship report on "Critical Review of the use of Information Technology in The Premier Bank Limited for Banking System Improvement". They also gave us the opportunity to hold the as Internship of this topic .We would also like to give acknowledgments to Md. Humayun Kabir, FVP and Head of IT Operations of The Premier Bank Limited, Mir Monjuml Islam, AVP of The Premier Bank Limited and everyone else of IT division of The Premier Bank Limited. They are providing suggestions to us on how to work and what the procedure to work in a practical manner and how to make this internship report in better way. They helped us in many ways by allowing getting the assistance we needed. So thanks to everyone of IT Division of the Premier Bank Limited. Otherwise it was not possible for us to complete our report.

Contents

Executive Summary	
Acknowledgments	
List of Tables	
List of Figures	
1 Introduction	
1.1 Presentation of the company/organization.....	1
1.1.1 Overview.....	1
1.1.2 Brief History	2
1.1.3 Nature of the Organization/Competitions.....	3
1.1.4 Product Lines	3
1.1.5 The Products and Services of The Premier Bank Limited.....	4
1.1.6 Business Volume/Employee.....	4
1.2 Objective of the Internship.....	5
1.3 Scope and Methodology.....	6
2 Literature Review.....	8
2.1 Origin Of The Internship Report.....	8
2.2 Academic Preparation.....	9
2.3 Connectivity	9
2.3.1 For Data Connectivity.....	9
2.3.2 For Internet Connection	10

CONTENTS

2.3.3 Network Device	10
2.3.4 Operating System	10
3 Details of Internship Work.....	11
3.1 Internship Program	11
3.1.1 Schedule of internship Duties.....	11
3.1.2 Activity Directory.....	12
3.1.3 Rename Computer Name & Connect to Domain.....	12
3.1.4 Domain User Account	15
3.1.5 Common Problem of User Account	15
3.1.6 Other Common Problems And Solutions	16
3.1.7 How to Check IP Address of a Computer	18
3.1.8 Web Browser	19
3.1.9 Internet/Proxy Related Problem	20
3.1.10 Proxy Authorization Problem	20
3.1.11 VNC Server	21
3.2 Other General Works	23
3.3 Network Monitoring	24
4 Key Results/Key Learning's	25
4.1 Description and Nature of our Job	25
4.2 Responsibilities	25
4.3 Achievements	26
4.4 Describing Working Process	26
4.5 Virtual Network Computing	26
4.5.1 Uses for Virtual Network Computing Systems	26
4.5.2 Tight VNC Features.....	27
4.6 Growing Performance Skills	28

5 Limitation and Recommendations.....	29
---------------------------------------	----

Limitations	29
-------------------	----

CONTENTS

Recommendation	30
----------------------	----

6 Conclusions	31
---------------------	----

List of Tables

3.1 Internship Working Schedule

List of Figures

1.1 ATM Machine Operations	4
3.1 Activity Directory Setup Window	12
3.2 Computer Name Rename Process	13
3.3 Domain Changes	14
3.4 Domain Changes	14
3.5 Command Line System Page	14
3.6 User Log In Page	15
3.7 HRMS Log In Page	16
3.8 TCP/IPv4 Commander Process	16
3.9 Proxy connection in Different Site	17
3.10 TCP/IPv4 Commander Process	18
3.11 Check IP Address by Using VNC Server	19
3.12 Check IP Address by CMD Command	19
3.13 Check IP Address by CMD Command "ip config" Details	20
3.14 Check/Put Proxy Details	21
3.15 Check/Put Proxy Authorization	21
3.16 Authorized Proxy Sites Allowing Process	22
3.17 VNC Viewer IP address Input Process	22
3.18 VNC Viewer Authorized User Id and Password Putting Process	23
3.19 Bank Ultimus	23
3.20 VNC View Proces	24
3.21 The Premier Bank Limited Networking Diagram	24

Chapter 1

Introduction

1.1 Presentation of the company/organization

1.1.1 Overview

Independent University of Bangladesh for mandatory internship/Project before any student can successfully complete his 4 years of Engineering in Computer Science. Along with the practical internship every student must submit a written report of his time and experiences at the internship organization. This report is thus an account of our internship experience. Internships are quite biennial for both the intern and the organization in a way that through internships, an intern can acquire the practical knowledge and abilities oared by the professional world, which they wish to form part of and at the same time to improve their curriculum vitae. On the other hand, an organization can have internees hired for a convenient remuneration, however, additional beets can be determined for the part of the intern, as meaningful work experience related to of study and major, exposure to real-world scenarios in the workplace, experience complements theoretical knowledge learned in the classroom, professional, social and volunteer activities for networking & also monitoring and coaching, training and development, during the internship period students receive supervised practical training in his

CHAPTER 1. INTRODUCTION

Internships are often very closely related to the student's academic and career goals. Internships help students to gain knowledge about particular and this experience helps students to get an idea of the real job and also to get jobs, this report has been created to examine the purposes of the internship program including the biennial factors, and to summarize work done during this phase. The research points out the factors involving an internship period and the tasks performed during this time. Our designation as an intern in Server Monitoring, Network Monitoring, Operating System Build up in The Premier Bank Limited.

1.1.2 Brief History

The Premier Bank Limited is a leading commercial private bank, which is founded in October 26th, 1999 and strategically located in almost all over the commercial areas through Bangladesh. "Service First" is the slogan of The Premier Bank Limited through a contemplation of assuring. A professional term of Bankers is running the day-to-day operation of the Bank. The Premier Bank Limited is a scheduled Commercial Bank established under bank companies Act, 1991, which obtained license from The Bangladesh Bank on June 17,1999 and incorporated as a public limited company. It started it commercial banking operation from October 26th, 1999. Head office of the The Premier Bank Limited located at Banani, one of the growing commercial and business areas of Dhaka city. The Premier Bank Limited applied IT to a wide range of back and front office tasks in addition to a great number of new products. IT has increased their productivity through the accurate computing of cumbersome and time consuming jobs such as balancing and interest calculation on due dates, automatic printing of covering schedules, deposit receipts, pass book/pass sheet, freeing the employees.

CHAPTER 1. INTRODUCTION

Performing this time consuming jobs and enabling them to give more attention to the needs to the customer. We have noted some of the roles of information technology in The Premier Bank Limited.

1.1.3 Nature of the Organization/Competitions

As a commercial bank, The Premier Bank Limited always try to be one of the best bank in Bangladesh. And they give their customer a lot of commitments. The management try their best to full these commitments as they promised. The commitments of the banks are "Service First" holds a prime and central focus in the Bank's operations. Easier Banking" provide our customers with a comfortable and friendly environment and up to date technology application. "Better Relationship" - view banking to be a long-term relationship with our customers to full their needs and satisfaction. "Assured confidentiality" - assure our customers with uncompromising Commitment to transact their manila activities with strict confidentiality and professional manner.

1.1.4 Product Lines

E-Banking enables the bank to deliver its services easily to its high end customers. It makes the system user friendly to all customers and bank has used a Graphical User Interface named Bank Ultimus. Credit Cards or Smart cards like VISA, VISA ELECTRON and Master Card have made the banking industry more expiable than before. The Premier Bank Limited has provided simple self-inquiry systems on all branches.

CHAPTER 1. INTRODUCTION

Centralized Information results to quick services enable banks to transfer information from one branch to another very easily. Premier Bank's main objective is to become one of the best bank by consistently exceeding their Customer's expectations. The achievements of the past and well planned growth strategy have given us the condense to grow and prosper in the coming years with us most satisfaction of all concerned.



Figure 1.1: ATM Machine Operations.

1.1.5 The Products and Services of Premier Bank ltd.

- Premier SMS (SMS Banking Services).
- Online Banking.
- Islamic Banking.
- International Services.

1.1.6 Business Volume/Employee

Now the bank has 109 branches without head once and 300+ ATM booths. They have extended then-services with commitment to turn their prime.

CHAPTER 1 . INTRODUCTION

Motto "service rest" into reality. The Bank has been continuously improving and consolidating its credibility in nuncio sector by playing larger and diversified role. The customers and the employees will be bereted with their strong net-working system.

1.2 Objective of the Internship

Internships are quite beneficial for both the intern and the organization in a way that through internships. An intern can acquire the practical knowledge and abilities oared by the professional world, which they wish to form part of and at the same time to improve their curriculum vitae. On the other hand, an organization can have internees hired for a convenient remuneration. Be nets can be determined for the part of the intern, as meaningful work experience related to field of study and major, exposure to real-world scenarios in the workplace, experience complements theoretical knowledge learned in the classroom, professional, social and volunteer activities for networking & also monitoring and coaching, training and development. During the internship, period students receive supervised practical training in his field. Internships are often very closely related to the student's academic and career goals. Internships help students to gain knowledge about particular ends and this experience helps students to get an idea of the real job field and also to get jobs. This report has been created to examine the purposes of the internship program including the beneficial factors, and to summarize work done during this phase. The research points out the factors involving IT. internship period and the tasks performed during this time. Our designation as an intern in Server Monitoring, Network Monitoring, Operating System Build up in The Premier Bank Limited.

1.3 Scope and Methodology

The area of operation that has been covered means the total possible coverage is the scope. The survey report provides the scope of gathering data from different sources. This report usually covers the Performance evaluation of The Premier Bank Limited in Bangladesh. It also covers the organizational Structure and core values and the strategies applied for meeting up their performance during the 5 Year period. The scope of the report is limited to the overall description of the company, personal Asset product, organizational setup, and it's position hi the industry and it's marketing strategies. Mainly used the annual data of The Premier Bank Limited for measuring the performance of The Premier Bank limited for the last 5 years. Showing some steps how they do their work by

Collecting the same data from the personal account holder and corporate clients of Premier Bank Limited. Primary data has been collected from the customers by providing questionnaire to them and instructing them to answer based on their perception of various provided by the Premier Bank Limited. Observation of the operations of the various departments and customers response to them. Direct conversation with the employees of the bank working in various departments.

Secondary Data Processing: Various records of the organization. Different types of report generated from the automated system, reports from the auditors and other assigned officials. Website of The Premier Bank Limited. Several training materials. Brochures and other promotional tools that represent The Premier Bank Limed.

CHAPTER 1. INTRODUCTIO Statistical and analytical tools used. That was the general procedure for evaluate the data by then- classifications and at the final they point out the result and evaluate all things.

Chapter 2

Literature Review

2.1 Origin Of The Internship Report

The banking sector has been starting quickly and essential changes. The pace of those improvements has been preserved also following the international economic period skilled all through recent years. It's properly acknowledged that there surely is an urgent importance of greater competent administration and greater quailed team in the vibrant international economic market; hi Bangladesh does not have any exception with this trend. Bank training is training focused training and Bank segment in Bangladesh is experiencing diculties from various sides through their possibility is brilliant in the future. The goal of the three month Internship to produce the particular abilities and the width of judgment necessary to successful economic government or bankers. To rising up our understanding, we are delivering to The Premier Bank Limited Conned Mind company IT Department from 15th November, 2018 to 14th February, 2019. That record has been organized on the foundation of our sensible activities on the everyday banking actions and beneath the shut guidance of our organizational supervisor Mr. Md. Mashuqur Rahman.

CHAPTER 2. LITERATURE REVIEW

2.2 Academic Preparation

There are lots of new things we have learned from our internship program. But as we know practical learning gives us the best learning from educational learning. When we joined to The Premier Bank Limited, we faced some problems as we didn't have much practical knowledge before about the data center. Also the behavior of the employees of bank are die rent. But as soon as possible, We tried to manage us with them. Though the Banking environment is well structured, the learning process is quite slow and there are frequent changes made to the reports due to which it has to be changed over and over again. This inevitably slows down, the development and analysis phase. So, from our internship period, We worked on data center and gained some practical knowledge. But in future, We should learn more about advanced networking and data center knowledge. One of our activities should be whenever we take on carrier planning is spending time mapping out our job on carrier path. We must keep a very good record of work accomplishment for the future jobs.

2.3 Connectivity

There are some connectivity providers in Premier Bank Ltd.

2.3.1 For Data Connectivity

- Metro net BD Ltd.
- Ranks ITT.
- Link-3 Technologies Ltd.
- Alap Communication Ltd.
- Bdcom Online Ltd.
- Telnet Communication Ltd.
- Aamra Networks Ltd.

CHAPTER 2. LITERATURE REVIEW

2.3.2 For Internet Connection

- Link-3 Technologies Ltd.
- Ranks ITT.

2.3.3 Network Device

- Media Converter.
- Router.
- Firewall.
- Switch.
- Configurable Switch.
- Other Equipment.

2.3.4 Operating System

- Windows 7 Professional 32 bit.
- Windows 8.1 Professional 64 bit.
- Windows 10 Professional 64 bit.
- Windows Server 2003 R2
- Windows Server 2008 R2
- Windows Server 2012 R2
- Windows Server 2016 R2

Chapter 3

Details of Internship Work

3.1 Internship Program

We did internship plan at Premier Bank Ltd. We labored in system and process help division. Here, we got a chance to do assist small and skilled employee. They're very useful and provide people numerous information regarding our function is essential for total internship record properly. During our internship period, Initially we were deputed to Head Office IT Division. So, we had the opportunity to know about everything.

3.1.1 Schedule of internship Duties

We did internship for three months. During internship, the working section schedule is below Section

Name Date

Hardware Support 15 Jan to 10 Feb

System Support 11 Feb to 9 March

Network Support 9 March to 01 April

CHAPTER 3. DETAILS OF INTERNSHIP WORK

Table 3.1: Internship Working Schedule.

3.1.2 Activity Directory

Activity Directory is a directory Service that Microsoft developed for Windows Domain Networks. It keeps track of all User account and password of our Organization, printers, Servers and Computers. We use this Active Directory Services to control all of our PC and User access, so that they can perform their works in a discipline way and smoothly without facing any problem and prevent spreading virus.

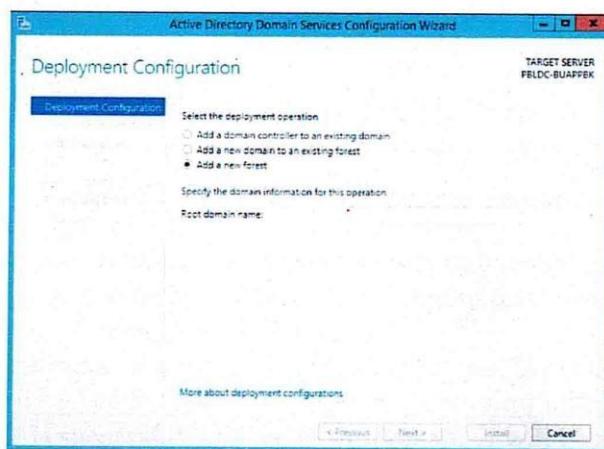


Figure: 3.1: Activity Directory Setup Window

3.1.3 Rename Computer Name & Connect to Domain

A domain is an accumulation of computers on a system with popular principles and techniques which can be administered as a unit. Each domain features a distinctive name. On average, Domains are useful for office network. For connecting pc to a domain, need to out the title of the domain and have a legitimate person consideration on the domain. Open System by clicking the Start button Picture of the Start button, right clicking Computer, and then clicking Properties.

CHAPTER 3. DETAILS OF INTERNNSHIP WORK

Under Computer unique name, domain, and workgroup settings, click Change settings. Administrator permission required if it has prompted for an administrator password or conurbation , type the password or provide cremation. Click the Computer Name tab, and then click Change. Alternatively, click



Figure: 3.2: Computer Name Rename Process.

Network ID to use the join a domain or workgroup wizard to automate the process of connecting to a domain and creating a domain user account on computer.

- Under member of, Click Domain.
- Type the name of the domain that want to join, then click OK.
- It will be asked to type user name and password for the domain.
- Once it is successfully joined to the domain, it will be prompted to reboot computer. Must restart the computer before the changes take effect.

After rebooting the operating system, then system will be look like on the bellow .

CHAPTER 3. DETAILS OF INTERNSHIP WORK

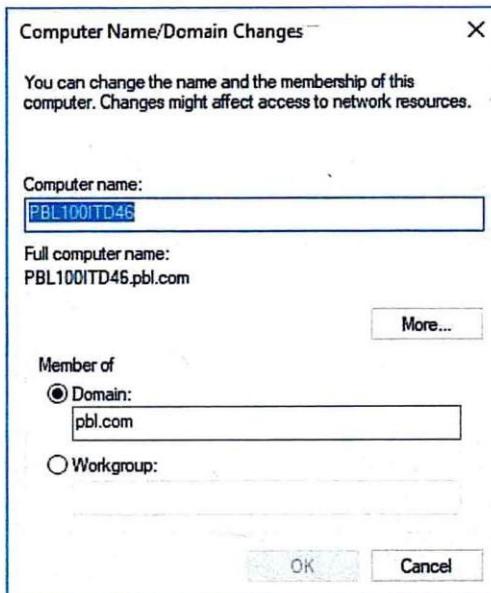


Figure: 3.3: Domain Changes.

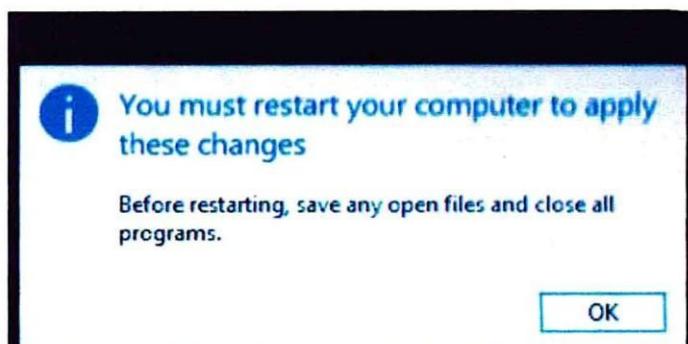


Figure: 3.4: Domain Changes.

View basic information about your computer
Windows edition
Windows 10 Pro
© 2017 Microsoft Corporation. All rights reserved.

System

Processor:	Intel(R) Core(TM) i3-4130 CPU @ 3.40GHz	3.40 GHz
Installed memory (RAM):	4.00 GB	
System type:	64-bit Operating System, x64-based processor	
Pen and Touch:	No Pen or Touch Input is available for this Display	

Computer name, domain, and workgroup settings

Computer name:	PBL100ITD46	Change settings
Full computer name:	PBL100ITD46.pbl.com	
Computer description:		
Domain:	pbl.com	

Windows activation

Windows is activated [Read the Microsoft Software License Terms](#)

Product ID: C0391-20991-20982-AA983 [Change product key](#)

Figure: 3.5: Configured Sustem Page.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

3.1.4 Domain User Account

A person consideration is an accumulation data that shows Windows which documents and les you are able to accessibility, what improvements you possibly can make to the pc, and your individual choices, such as for instance your computer history or monitor saver.

3.1.5 Common Problem of User Account

- Trusted Relationship problem between domain user.
- User account locked and forget password.



Figure: 3.6: User Log In Page.

- User account password validation expired
- When a user transfers to another Branch/Division User forget to change his/her Computer log hi user ID/Name.
- Confusion between Computer domain user log in and Bank Ultimus User id, HRMS etc.

HAPTER 3. DETAILS OF INTERNSHIP WORK

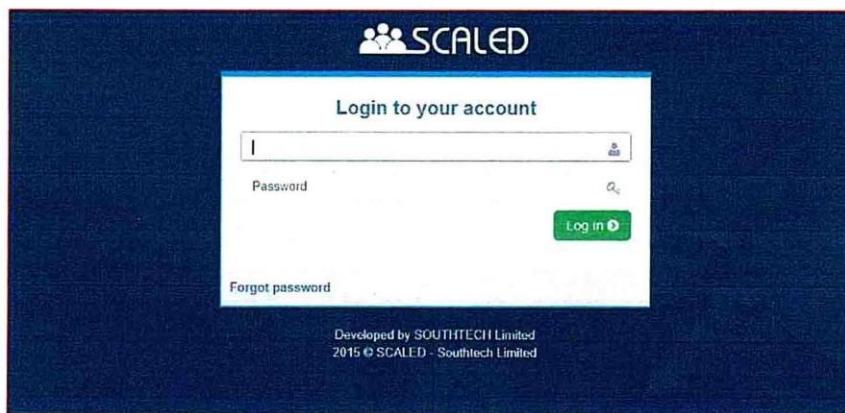


Figure: 3.7: HRMS Log In Page.

3.1.6 Other Common Problems And Solutions

How to check IP address of a computer. The solution is click on network icon and click option open network and share center. Then click adapter setting and conjure the properties.

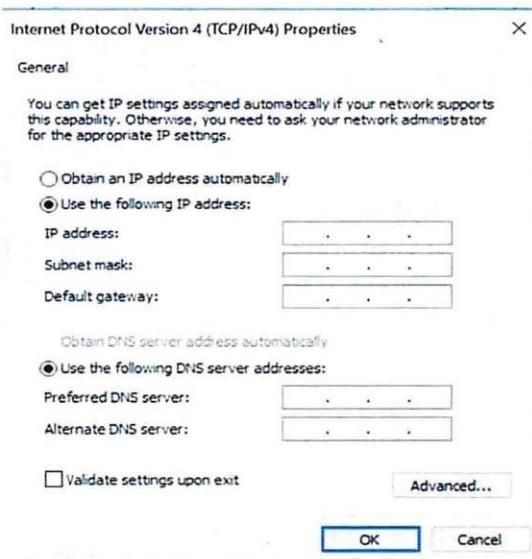


Figure: 3.8: TCP/IPv4 Configure Process.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

Few Useful intranet site access problems. By solving this blocking system admin team then provide particular user access.

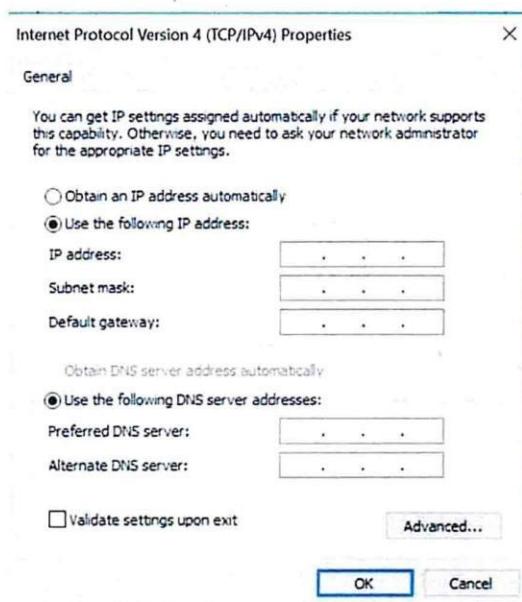


Figure: 3.9: Proxy connection in Die rent Site.

Browser problem. For solving this matter of all clear cooks and history if not solved then update the browser version. Internet/ Proxy Related Problem. When facing antivirus related problem. Then we have to update windows defender and after updating check scan full systems. Put important Files/Folders into Desktop and documents folder. When desktop e or user over loaded then take backup on other drive and delete user by root directory.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

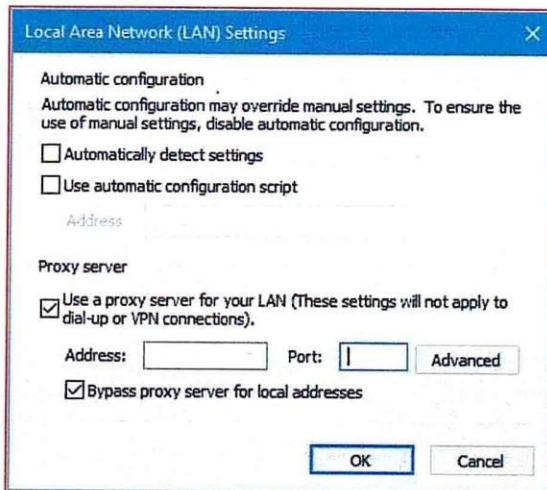


Figure: 3.10: TCP/IPv4 Configure Process.

3.1.7 How to Check IP Address of a Computer

Process 1:

First VNC software is installed in the PC. After completing install there is an icon right corner bottom of the screen. When the mouse cursor put on that icon in that case PC IP will show in a bar.

Process 2:

First click Start button and type CMD. A command prompt will come. Here type "IP Configure". There is shown some IP. IPv4 Address in the IP address of that pc.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

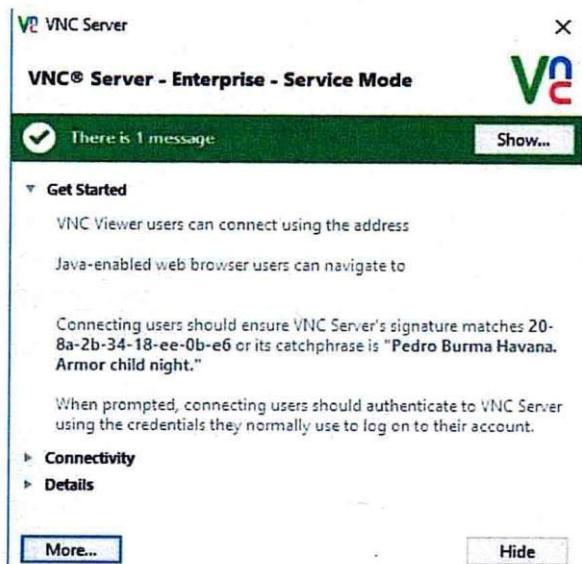


Figure: 3.11: Check IP Address by Using VNC Server.



Figure: 3.12: Check IP Address by CMD Command.

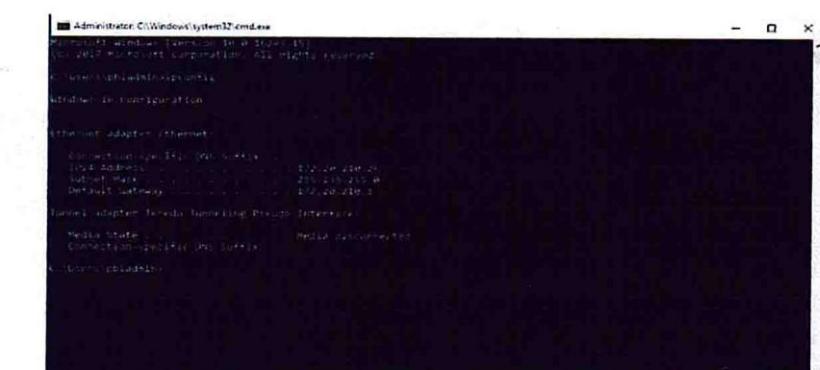


Figure: 3.13: Check IP Address by CMD Command "ip configure" Details.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

3.1.8 Web Browser

An internet browser is the program that use to access the internet and view web page on computer. There are two types of web browser:

1. Internet Explorer.
2. Mozilla Firefox.

These three browsers use deferent type of purpose. Internet Explorer: Bank Ultimus sites, Webmail, Bulletin, Other Domain sites, etc.

Mozilla Firefox: NID, E-GP, RTGS, Webmail, Bangladesh Bank site, Other Gov. Banking sites, Bulletin, etc.

3.1.9 Internet/Proxy Related Problem

When user login password is expired or user put wrong name or password in proxy authorization box, internet cannot be accessed.

3.1.10 Proxy Authorization Problem

If the user name or password is incorrect hi proxy authorization box, internet can not be accessed then have to import trusted root authorized cortication. After the authorization the require site doesn't connect then have to connect them with proxy by advance mode process.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

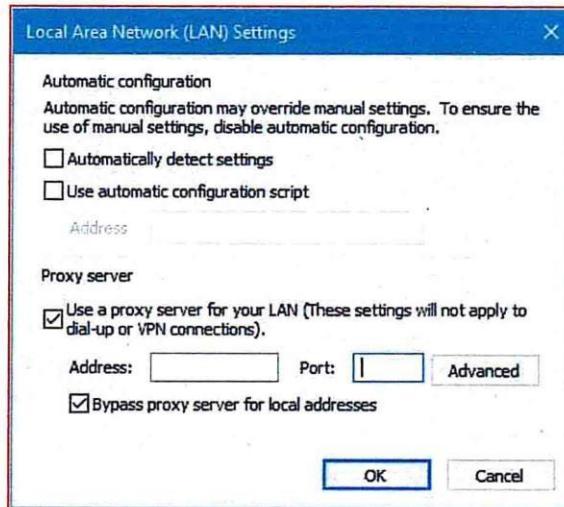


Figure: 3.14: Check /Put Proxy Details.

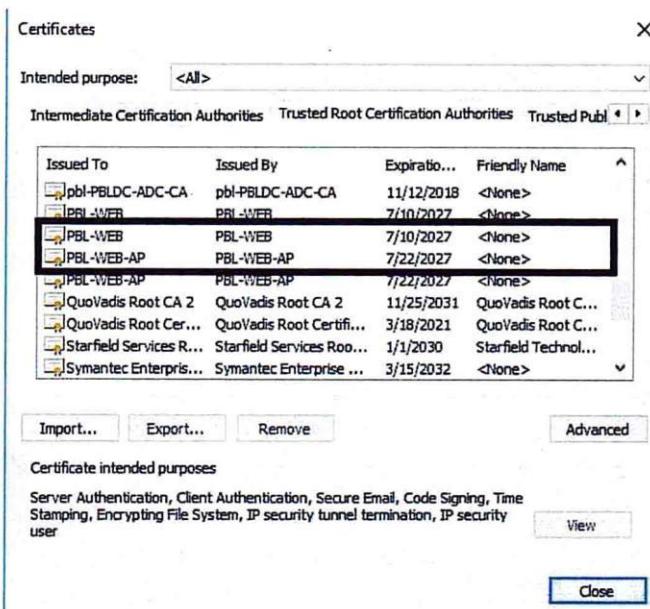


Figure: 3.15: Check /Put Proxy Authorization.

3.1.11 VNC Server

VNC (an abbreviation for Virtual Network Computing) is a great client/server software package allowing remote network access to graphical desktop. By using VNC tool with VNC server any one can access any computer using IP address.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

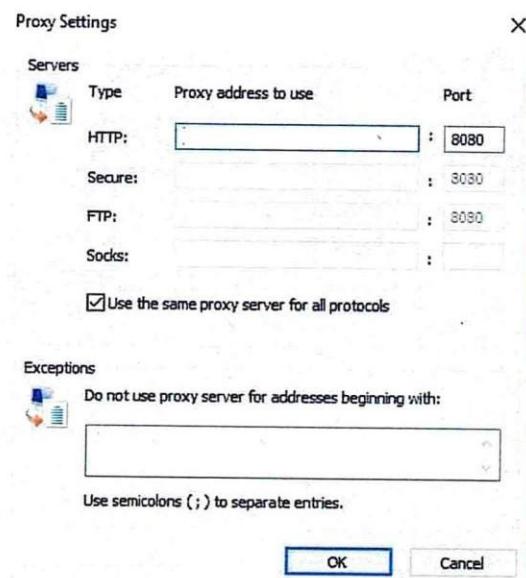


Figure: 3.16: Authorized Proxy Sites Allowing Process.

through internet. We use VNC purchased software for better performances and its available for the all platform and mixed network environment. It's very useful long distance remote control support system which using administrator security ensuring for connectivity process. VNC Server Working Process: First have out the other pc IP address for establishing remotely access.

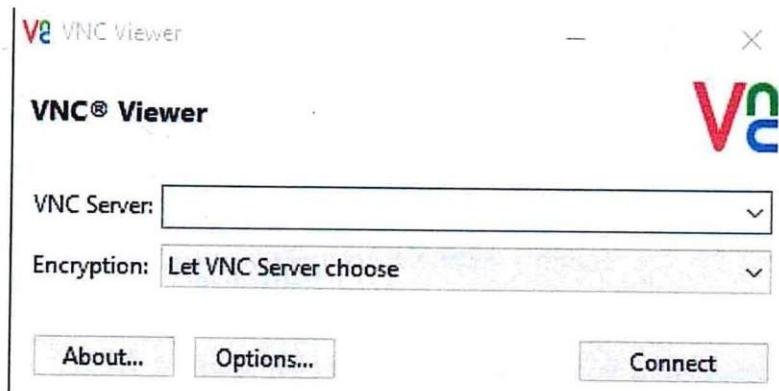


Figure: 3.17: VNC Viewer IP address Input Process.

Then Have to input authorized user id and password for variation.

CHAPTER 3. DETAILS OF INTERNSHIP WORK

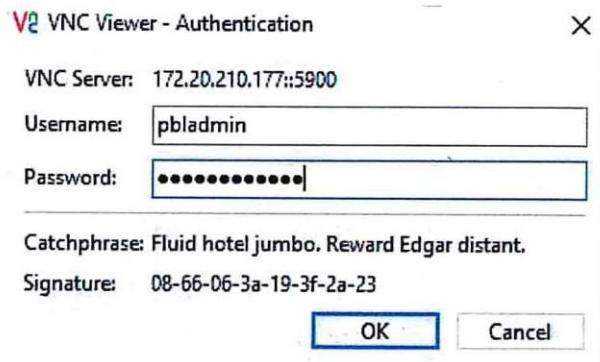


Figure: 3.18: VNC Viewer Authorized User Id and Password Putting Process.

3.2 Other General Works

In IT Division, our main purpose of the Intern was fulfilled. There are lots of activities to do in IT division of premier bank ltd. Are like Hardware: OS Build up, Software Installation, Remittance Install, Overview of Core Banking Software "Bank Ultimus", Network printer & Share Printer Installation.

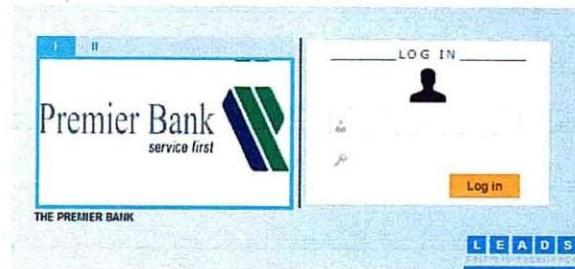


Figure: 3.19: Bank Ultimus.

MIS Reporting, Banking Transactions, MIS relationship (All the reports bank needed). Infrastructure: Server Monitoring DC monitoring, Policy Implementation upon banking transaction, Active Directory, Root Directory etc.

3.3 Network Monitoring

In IT division also major work is monitoring network, Monitoring tools, Cacti & Nagios software uses on Network.

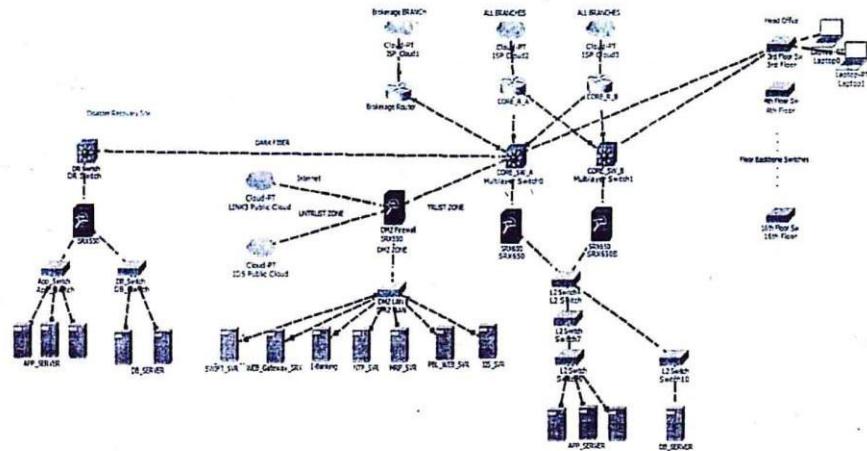
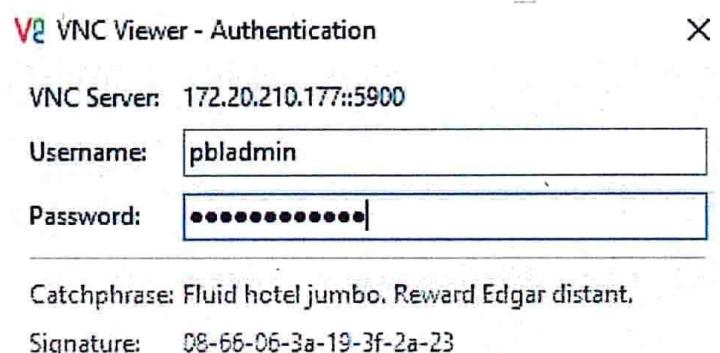


Figure: 3.20: The Premier Bank Limited Networking Diagram.

CHAPTER 3. DETAILS OF INTERNSHIP WORK



Chapter 4

4.1 PROJECT MANAGEMENT AND FINANCE

Finance project manager is becoming a new role within the finance division of organizations. They are responsible for making plans, leading and taking control of activities of the finance-focused tasks, systems changes and technology improvements within the department of finance. People responsible for project management in finance oversees the planning, implementation and monitoring of short, mid and long-term initiatives from idea to implementation; develops projects plans, and guarantees tasks completion on-time, within assigned budgets, and satisfactory.

4.2 MAIN SKILLS THAT FINANCE PROJECT MANAGERS MUST HOLD:

- Plan, and effectively & efficiently implement a project any organization.
- Assign roles and responsibilities to the team, to optimize the use of resources available.
- Assess project implementation.
- Clearly define the objectives and associated risks.
- Thoroughly review of several case studies.
- Plan and control project budget
- Manage changes and there troubleshooting.
- Set up implementation phases.
- Monitor and manage quality of work.

[All these project management skills are developed at AIMS during mba project management online, online project management diploma and online project management certification program. These programs are delivered through highly interactive learning contents.]

4.3 MECHANISM OF PROJECT MANAGEMENT IN FINANCE:

A speculation choice can be introductory, development, development or of disinvestment. The monetary arrange of Ventures think about the utilization One's own capital, the capital outsiders. One's own capital, the capital of outsiders furthermore financing. This is an examination of the use of assets in ventures in that they ought to talk about the situations furthermore play out the recreations.

Income, the monetary record of the association and bookkeeping proclamations give critical endowments to the choice of the undertaking and the way toward arranging, a plausibility study and the meaning of the points of confinement for the venture.

The capital planning process begins with the era of task recommendations. After the investigation of monetary possibility of choices, the choice ventures identified with the task. Possibility of choices, the choice is taken to ventures identified with the task. The financial plan of the funding to be contributed

characterizes the allotment of assets to the venture, specifying the inputs and yields accommodated in a given future period. Organizations must scale their working capital and talk about requiring fleeting financing.

4.4 DUTIES OF FINANCE

4.4.1 PROJECT MANAGERS:

The Finance Project Managers will take instructions from director and vice president of finance to create and hold control and analytical financial and reviews assuring that task reporting are done accurately,

4.4.2 DUTIES OF FINANCE PROJECT MANAGERS:

The Finance Project Managers will take Instructions from director and vice president of finance to create and hold control and analytical financial systems and reviews assuring that tasks and reporting are done accurately, maintained, and that reviews are generated timely.

They are responsible of finding and implementing new strategies and technology to create efficient and powerful techniques. They are also responsible to update Finance related sites and content material organizations. The finance

They are responsible of finding and implementing new strategies and technology to create efficient and powerful techniques. They are also responsible to update Finance related sites and content material within their organizations. The finance project managers also layout and enforce software for economic guidelines and tactics, and will coordinate the features all through the enterprise.

The Finance Project Managers are also responsible for taking part with Finance management in keeping a cutting-edge Accounting system & method guide and a monetary policies manual. Initiatives and duties will be tactics, and will coordinate the features all through the enterprise.

4.4.3 Through the enterprise.

The Finance Project Managers are also responsible for taking part with Finance management in keeping cutting-edge Accounting systems & method guide and monetary policies manual. Other special initiatives and duties will be assigned as need arises.

Chapter 5

Functional Requirements vs Non Functional Requirements: Key Differences

solutions, results you can rely on.

5.1 What is a Functional Requirement?

In software engineering, a functional requirement defines a system or its component. It describes the functions a software must perform. A function is nothing but inputs, its behavior, and outputs. It can be a calculation, data manipulation, business process, user interaction, or any other specific functionality which defines what function a system is likely to perform.

Functional software requirements help you to capture the intended behavior of the system. This behavior may be expressed as functions, services or tasks or which system is required to function a system is likely to perform.

Functional software requirements help you to capture the intended behavior of the system. This behavior may be expressed as functions, services or tasks or which system is required to perform.

5.2 What is Non-Functional Requirement?

A non-functional requirement defines the quality attribute of a software system. They represent a set of standards used to judge the specific operation of a system. Example, how fast does the website load?

A non-functional requirement is essential to ensure the usability and effectiveness of the entire software. that fail to satisfy user needs.

Non-functional Requirements allows you to impose constraints or restrictions on the design of the system across the various agile backlogs. Example, the site should load in 3 seconds when the number of simultaneous users are > 10000. Description of non-functional requirements is just as critical as a functional requirement.

5.3 Example of Functional Requirements

- The software automatically validates customers against the ABC Contact Management System
- The Sales system should allow users to record customers sales
- The background color for all windows in the application will be blue and have a hexadecimal RGB color value of Ox0000FF.
- Only Managerial level employees have the right to view revenue data.
- The software system should be integrated with banking API
- The software system should pass Section 508 accessibility requirement.

5.4 Examples of Non-functional requirements Here, are some examples of non-functional requirement:

1. Users must change the initially assigned login password immediately after the first successful login. Moreover, the initial should never be reused.
 2. Employees never allowed to update their salary information. Such attempt should be reported to the security administrator.
 3. Every unsuccessful attempt by a user to access an item of data shall be recorded on an audit trail.
 4. A website should be capable user to access an item of data shall be recorded on an audit trail.
-
4. A website should be capable enough to handle 20 million users with affecting its performance
 5. The software should be portable. So moving from one OS to other OS does not create any problem.
 6. Privacy of information, the export of restricted technologies, intellectual property rights, etc. should be audited.

5.5 Advantages of Functional Requirement

Here, are the pros/advantages of creating a typical functional requirement document-

Helps you to check whether the application is providing all the functionalities that were mentioned in the functional requirement of that application

A functional requirement document helps you to define the functionality of a system or one of its subsystems.

Functional requirements along with requirement analysis help identify missing requirements. They help clearly define the expected system service and behavior.

5.6 Service and behavior.

Errors caught in the Functional requirement gathering stage are the cheapest to fix. Support user goals, tasks, or activities for easy project management e Functional requirement can be expressed in Use Case form or user story as they exhibit externally visible functional behavior.

5.7 Advantages of Non- Functional Requirement Benefits/pros of Non-functional testing are:

- e The nonfunctional requirements ensure the software system follow legal and compliance rules.
- e They ensure the reliability, availability, and performance of the software system
- e They ensure good user experience and ease of operating the software.
- e They help in formulating security policy of the software system.

Chapter 6

Key Results/Key Learning's

6.1 Description and Nature of our Job

In The Premier Bank Limited we worked as something supporter. Our major responsibilities were to understand system support and networking to head office or branch about their problems. Network system designing also we took as part of our operations. There are a few short descriptions of our internship work.

6.2 Responsibilities

Program and infrastructure group of IT section in The Premier Bank Limited Restricted Is principally an advocate making use of their branches. As a networker we often apply the issue that will be confronted the offices and mind company also. We'd to meet up with the customer realize then-issues and by the next their demand through resolved that respectively. Within our division we'd to participate on debate and preparing of the next system process with this similar colleagues. We also had to guarantee that the task fond of people are completely resolved down and we've to record our development to the responsible supervisor.

6.3 Achievements

In IT segment of The Premier Bank Limited Confined we'd to perform in several various kinds of electronics with various kinds of software's by these principles of the corporation. We understand here about their process, safety, plan, domain, hosting etc. We and we reinforced throughout the mind company and divisions through VNC possibly Distant Access.

6.4 Describing Working Process

Supporting group largely help hi limbs through VNC software or distant access. By the sensitive and painful situation of mind company we actually surveying to discover the situation and attempt to quickly resolve that out.

6.5 Virtual Network Computing

In processing, Virtual Network Computing (VNC) is a graphic pc discussing program that employs the Rural Body Stream method (RFB) to slightly get a grip on yet another computer.

6.5.1 Uses for Virtual Network Computing Systems

These kinds of methods have numerous employs that will produce point fairly simpler for corporations and persons alike. For instance, a VNC program may assistance with rural specialized support. Which means that if you have a challenge on a single pc, an individual can join compared to that pcs system to be able to troubleshoot any problems. This can be a important use for businesses.

It can be employed by persons who would like to support buddies or family members with pc issues. Persons may use VNC to slightly accessibility documents on particular pcs in a wide selection of situations.

CHAPTER 4. KEY RESULTS/KEY LEARNING'S

VNC could be evidently employed by those who require to gain access to function documents from their company computer. It can also be good for those who occurred to overlook to create their speech to work, they could use VNC for connecting for their desktop computer to be able to obtain any. This sort of plan is usually employed by administrators, IT help, and support desks. It's employed by administrators to be able to seize control of an employee's computer. Administrators might need to try this to be able to support specie

worker with any kind of program. It can be utilized in the class by teachers. Educators may possibly make the most of the program so as to let scholar to see what's occurring at the teacher's computer. This assists educators train their pupils quickly and more of actively.

6.5.2 Tight VNC Features

In VNC software tool have some additional utilities and packages that can extend the areas where Tight VNC can be helpful. Tight VNC is a project maintained by contain Kolinsky. Many other individuals tools available on VNC Here is a brief list of Tight VNC features absent in the standard VNC. File transfers in versions for windows. Upload files from local machine to the tight VNC Server, and download files from the server to your computer. Support for video mirror driver (Windows 2000 and above). Tight VNC Sever can use DFM image mirror driver to detect screen updates and grab pixel data in a very client way, saving processor cycles for other applications. Scaling of the remote desktop (viewer for Windows and Java viewer). You can view the remote desktop in whole on a screen of smaller size, or you can zoom in the picture to see the remote screen in more details, client "Tight" encoding with optional JPEG compression. New tight encoding is optimized for slow and medium-speed connections and thus generates

CHAPTER 4. KEY RESULTS/KEY LEARNING'S

Much less track as compared to traditional VNC encoding. Unlike other encoding, Tight encoding is censurable via compression levels and JPEG image quality setting. Enhanced Web browser access. Tight VNC includes a greatly improved Java viewer with full support for Tight encoding, 24-bit color mode, and more. The Java viewer applet can be accessed via built-in HTTP server like in the standard VNC. Support for two passwords, full-control and read-only. The server allows or disallows remote keyboard and mouse events depending on which password was used for authentication. Automatic SSH tunneling on Unix. The Unix version of Tight VNC viewer can tunnel connections via SSH automatically using local SSH/ Open SSH client installation. Tight VNC includes a number of other improvements, performance optimizations and bug esx.

6.6 Growing Performance Skills

Strong IT Infrastructure Domain knowledge. Good Problem Solving skills. Decision making ability. Good communication skills specially. Maintain support priority. Knowledge of latest Hardware. Software. Ability to analyses issues

Chapter 7

Limitations and Recommendations

7.1 Limitations

There are Short limitation that went out in our internship period but have little bit something that describing in bellow by pointing out properly. The one of the main limitation of the report was to conduct a small scale survey on head client not branch client face to face properly. Time period are the other limitation for knowing all maintenance knowing well. Most import limitation for shorting our report for insouciant demo report or journals. The division is too busy for the surveying all thing biggest necessarily. Have some privacy case for reporting all our surveying things. The employees in The Premier Bank Limited. Are so much busy in their support in geld, they could hardly provide little bit time for each and every topics for discussing them.

7.2 Recommendations

Our recommendations that follow up everything by logically and carefully. Have to be more peasants for everything. They should not be ambitious, vague, abstract. They should be to the point, specie, determined, and most important thing is punctuality for following every steps. The organization may ensure training facilities so that they can serve better.

Chapter 8 Conclusion

This report is a descriptive study where the main purpose was to highlight the present status of IT and also banking sector. In this challenging world the technology driven banking services are not nice to have. There is no denying the fact that the nuncio system plays a significant role in the economic development of a country. In fact, it is the system by which a country's most problem and client projects are systematically and continuously!}, directed to the most productive sources of future growth. Implementation of information technology began in earnest in the sector. Starting from back office automation, which was aimed largely at processing of voluminous data and automation of check clearing operations, the technology moved to the front desk in the form of total branch automation. During our internship work first time facing many critical tasks. We were managed average 8 hours of work in every day. Our co-supervisor was very pleased with us for doing our working sincerely. As an intern we don't know everything about IT but our co-supervisor knows that and suggest some tips for making us better in corporate life.

Bibliography

- [1] The Premier bank limited website: www.premierbankltd.com
- [2] Bangladesh bank website: www.bb.org.bd
- [3] Bangladesh Bank (Anti-Money Laundering).
- [4] Introduction to Database Systems.
- [5] Md. Mashuqur Rahman, SVP & Head of IT & Support Head office, PBL.
- [6] Md. Humayun Kabir,(FVP) & Head IT Operations, Head office, PBL.
- [7] Mir Monjurul Islam, (AVP), Head office, PBL.