

FINAL YEAR PROJECT AND INTERNSHIP REPORT
CLOUD SERVER

By

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

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DAFFODIL INTERNATIONAL UNIVERSITY
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APPROVAL

This Project/internship titled “Cloud Server”, submitted by Md. Sakib Abdal, ID No:162-15-8011 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 09.07.2020.

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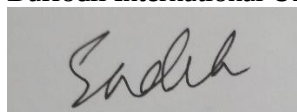


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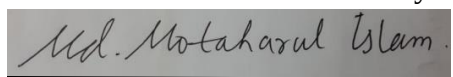
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Shah Md. Tanvir Siddiquee, Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, we must acknowledge with most respect the initial support and patients of our parents.

ABSTRACT

Cloud Server and Database system the main object my internship to develop Company database and cloud base application are several system to use. They are only used cloud server and ERP base POS system for the company. Example: - Clone server, ERP system etc. the some other. Nowadays there is a wide prevalence of various devices that can be connected online for different kind of activates, and among others, for complete their work. Software base work is constantly changing adjusting due to appearance of different sizes and types of devices no Matter which device is used to present system, desktop or various mobile or wearable device. We develop company web based is very useful for our daily life. That's why I choose of subject cloud server and database system. And I working Kay Kraft huge experience upcoming carrier.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Internship program is design to provide student's engaged in a field experience with an opportunity to share their perceptions, to explore the links between student's academic preparation and their field work, and to assist participants in developing and carrying out the major research project which will serve to complete their internship experience. Internships are individualized and custom to the needs and interests of each student in the program. As a part of the internship experience, students are expected to take an active role in finding a good internship for themselves. Many students pursue their own contact information is available on Internship Sites.

1.2 Internship Objectives

Cloud architecture and server maintain is not so easy. Confident that your resume objective will appeal to manage can be difficult. More managing skills and working experience and professional skill make it easy. Strong understanding level, good architecture, strong network bonding will make a strong cloud. Critical and problem solving skill can increase cloud dependency.

1.3 Motivation

It has been found Kay Kraft has super I got interest in cloud server and database and still I improve myself made much progress, I really enjoy it. I enjoy the challenge to maintain a cloud system and company database. Now I realized that how people work with a real project and such kind of people make me work harder. I just want to manage an easy way to improve their criteria.

1.4 Introduction to the Company

Kay Kraft is a fashion design house, that's preparing and retailer of fashion wear, fashion accessories, textiles, handicraft, house hold and handloom based products manufacturer in Bangladesh. Kay Kraft predilection and renovate products for those fashion attentive people who are mostly young at heart and treasure traditions and heritage. The ambition primarily targeted young generation of Bangladesh, and within a short time became popular surrounded by higher middle class young professionals and student. Applying classic handloom skills, build resources and Kay Kraft's own inventive design and within good presentation, Kay Kraft will become one of the leading brands in the fashion sector of Bangladesh.

1.5 Report Layout

Chapter 1: Introduction, Motivation, Internship goal, Report Layout.

Chapter 2: Introduction, About Company, Company Products, Marketing policy.

Chapter 3: Daily Work and Activities, Events, Project Activity, Challenges.

Chapter 4: Problem Solving, Learning, Outcome.

Chapter 5: Conclusion and Future.

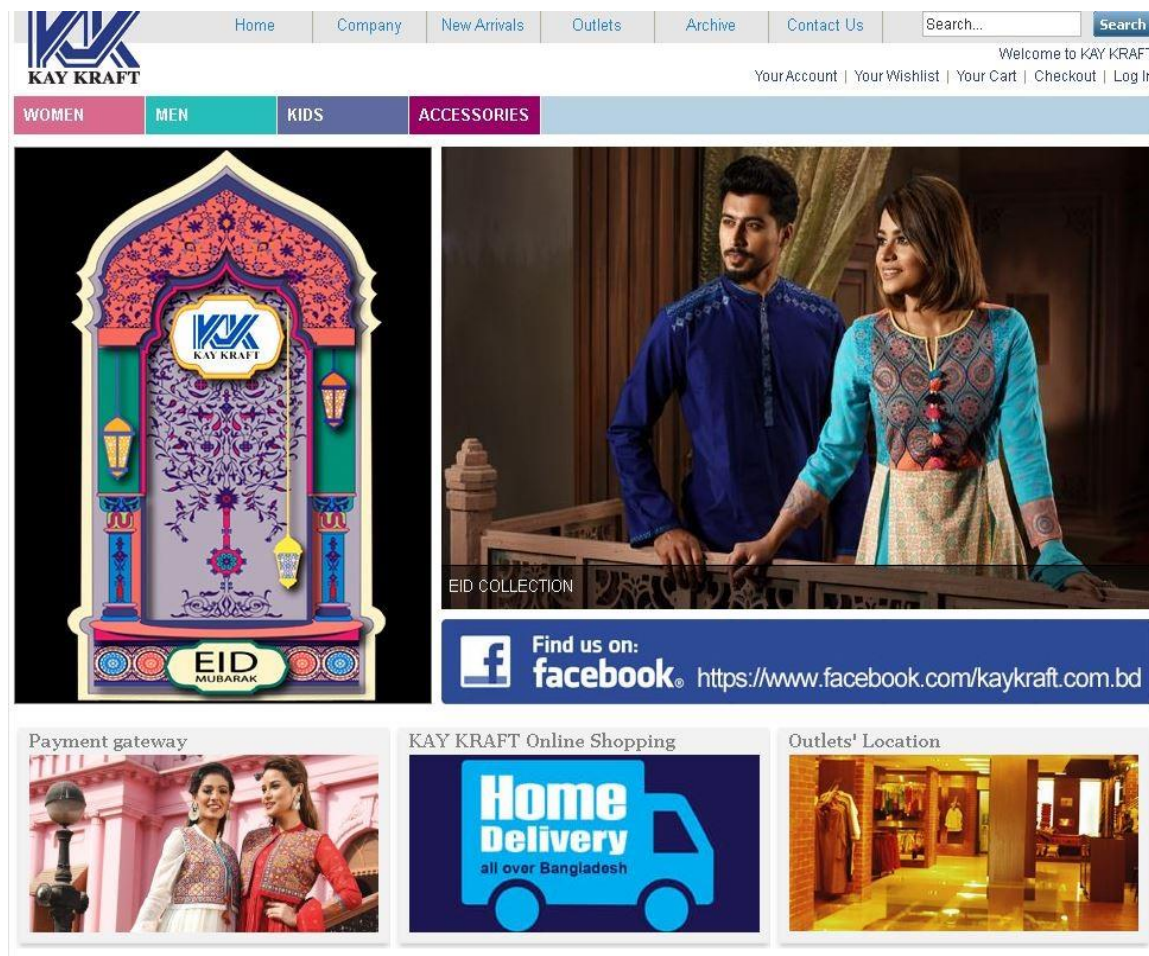
CHAPTER 2

Organization

2.1. About The Company

Kay Kraft started new journey with this website. People can visit this site to buy product and collect information. Kay Kraft using another social communication platform to develop their market place. By the internet community they will arrive door to door without the help of their personal shop.

2.1.1 Website



Figure

2.1.1: Kay Kraft Website

2.2 Product and Market Situation

-Women's wear

-Men's wear

-Beauty

-Jewelry

-Shoes

PRODUCT	CODE	CATEGORY	VARIANTS	PRICE	RELEASED
Cap	4001	Accessories	Default 4001	260	13 Jan 15
Diving goggles	5001	Accessories	Default 5001	250	13 Jan 15
Wallet	7001	Accessories	Default 7001	170	13 Jan 15
Belt	8001	Accessories	Default 8001	160	13 Jan 15
Ties	9002	Accessories	Default 9002	120	13 Jan 15
T Shirt	1001	Dress	L M S	150	13 Jan 15
Shirt	1002	Dress	L M S	250	13 Jan 15
Polo Shirt	1003	Dress	L M S		

We can store our data in this system using POS can see by access.

Figure 2.2 : Store Point

2.3 Target Group

Kay Kraft is a fashion house they increased their business day by day. They are growing their another new brand name Young Kay.

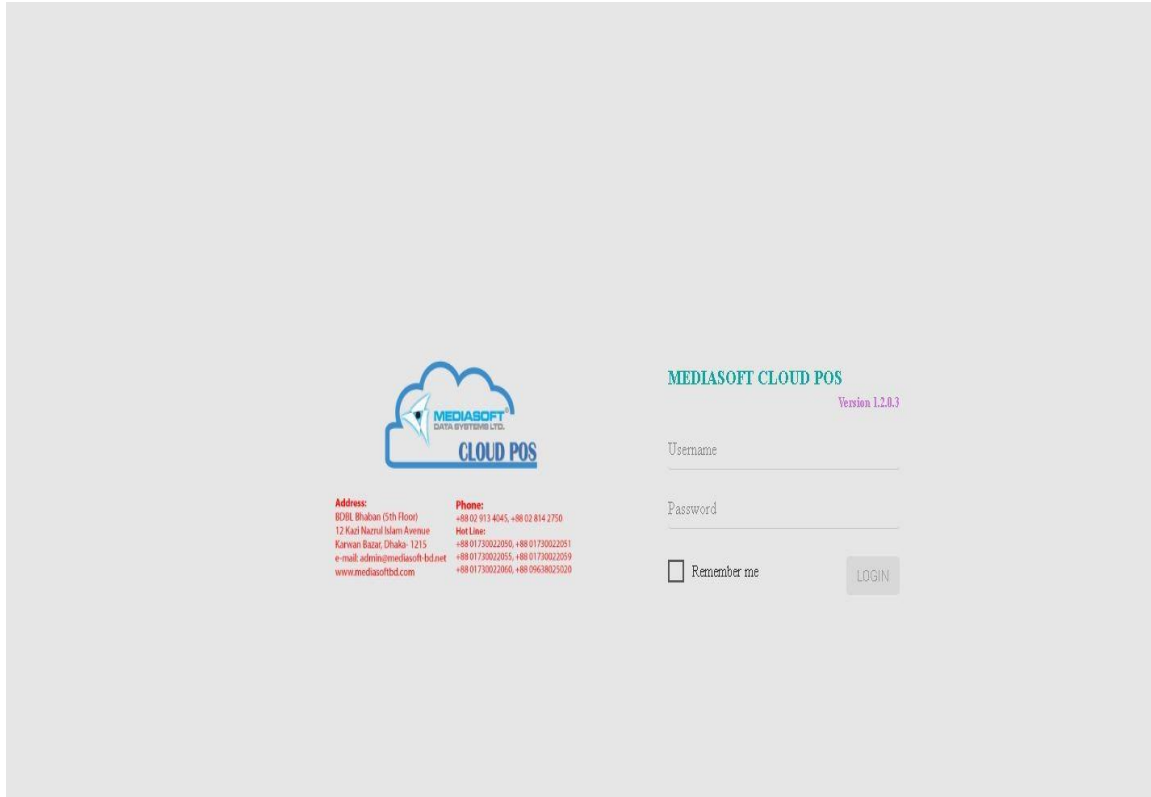


Figure 2.3 : Database System

2.4 SWOT Analysis

Kay Kraft import all of their data in this POS system. All of their product related information, quantity or store related information will get in this platform. This POS system help them to understand how many quantity they need to manufacture and how many product sold out and mostly their entire profit. Don't need to maintain any excel or any note just click on this cloud base POS from anywhere or any kind of device.

Barcode	Parent Product	Name	Regional Name	Category	Subcategory	Brand	Vendor	SD(%)	VAT(%)	CPU	MRP	WSP	Edit	Delete
00001		FOTUA KK	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Edit	Delete
00002	A0000001	FOTUA KK, BB-FTA-3402, BLUE, NA, 10/11, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Delete	
00003	A0000001	FOTUA KK, BB-FTA-3402, BLUE, NA, 12/13, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Delete	
00004	A0000001	FOTUA KK, BB-FTA-3402, BLUE, NA, 20, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Delete	
00005	A0000001	FOTUA KK, BB-FTA-3402, BLUE, NA, 40, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Delete	
00006	A0000001	FOTUA KK, BB-FTA-3402, BLUE, NA, 60, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Delete	
00007	A0000001	FOTUA KK, BB-FTA-3402, BLUE, NA, 80, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	240	420	420	Delete	
00008		FOTUA KK	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	263	490	490	Edit	Delete
00009	A0000008	FOTUA KK, BB-FTA-3403, BLUE, NA, 10/11, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	263	490	490	Delete	
00010	A0000008	FOTUA KK, BB-FTA-3403, BLUE, NA, 12/13, DALIA, NA, NA, NA, REGULAR-15, NA, 1, 25409, COTTON	FOTUA	KID BOY	BOYS FOTUA	KK	KK	0	7.5	263	490	490	Delete	

Figure 2.4 : Database System

Don't need to maintain any excel or any note just click on this cloud base POS from anywhere or any kind of device.

2.5 Organizational Structure

Kay Kraft is not a big company. That maintaining a main branch and 24 store for sell their products. With a POS growing their business and managing their all business section. Connecting their separated store over cloud. Cloud base POS maintain every department of a business. Department is separate in a POS system call module.

2.5.1. Cloud POS

POS full form is Point of sale. Basically cloud POS build for business. IF this system make any connection with cloud it's be an online system.

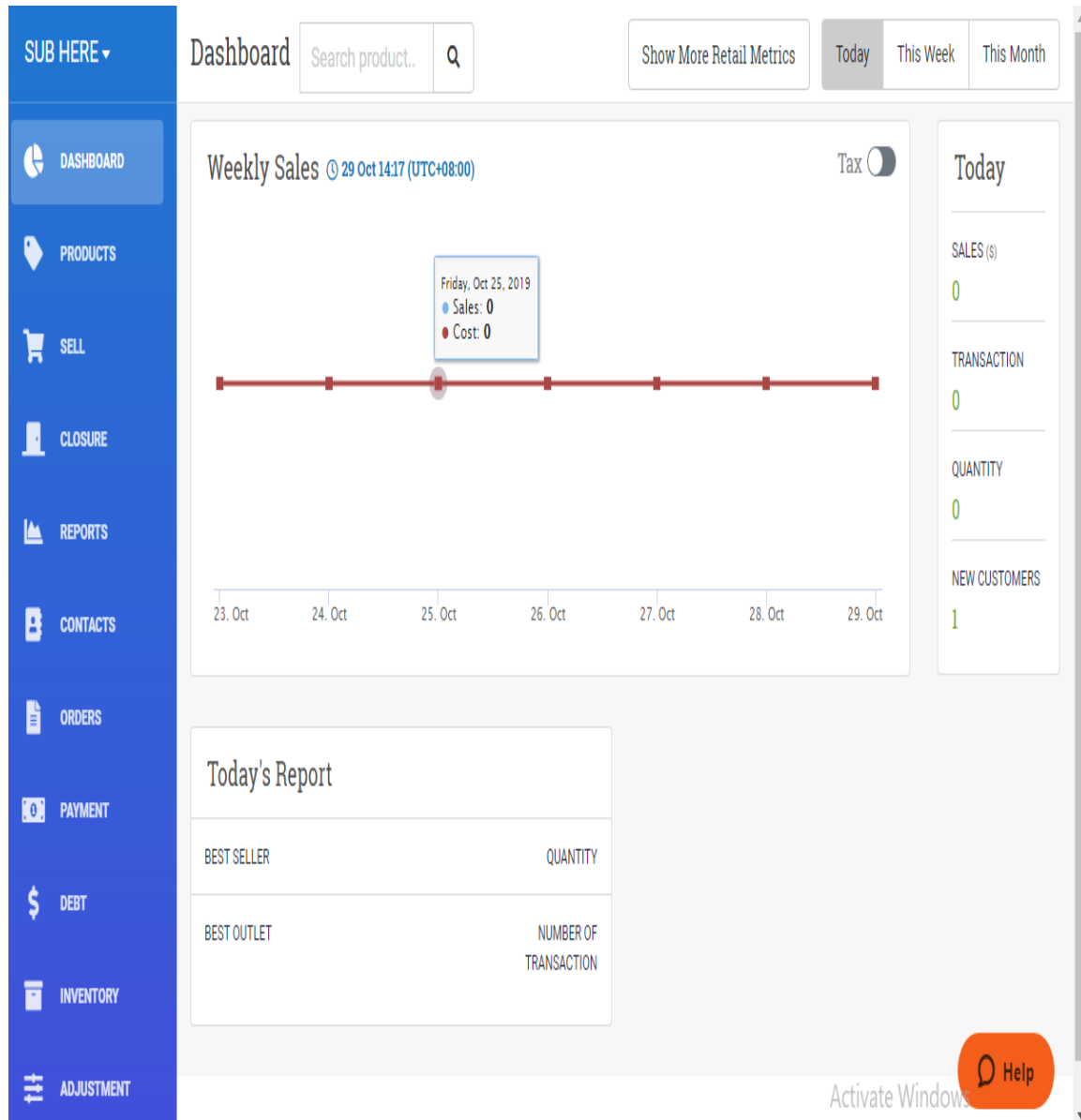


Figure 2.5 : Database System

CHAPTER 3

Tasks, Projects and Activates

Kay Kraft using this Web base software name KK cloud pos. This POS system created by Media soft software development firm. This system work with kay kraft data. This system is connected with kay kraft clone virtual server and this server store all data in cloud.

3.1 Daily Task and Activities

- I. KAY KRAFT website Improvement.
- II. Client Handle.
- III. Web base market place grown up.
- IV. Data Analysis and problem solving.
- V. Data Implement.
- VI. Server Maintain.
- VII. Client Server Maintain.
- VIII. Server Configure.
- IX. Data Architecture.
- X. Database Security Maintain.
- XI. Server Security Maintain.

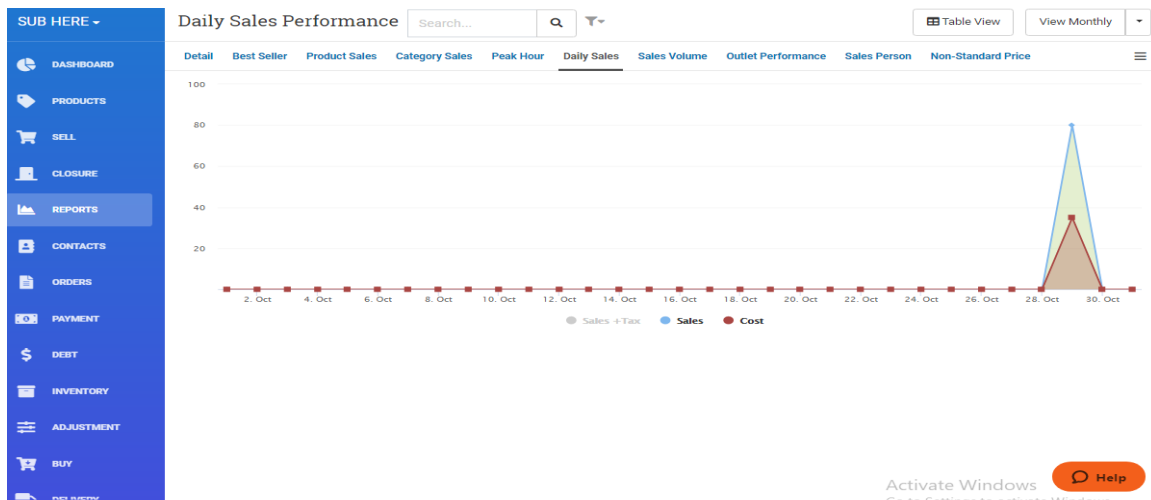


Figure 3.1 : Database System

Daily/Weekly/Monthly/Date wise report and company growth.

3.1.1. Maintenance:

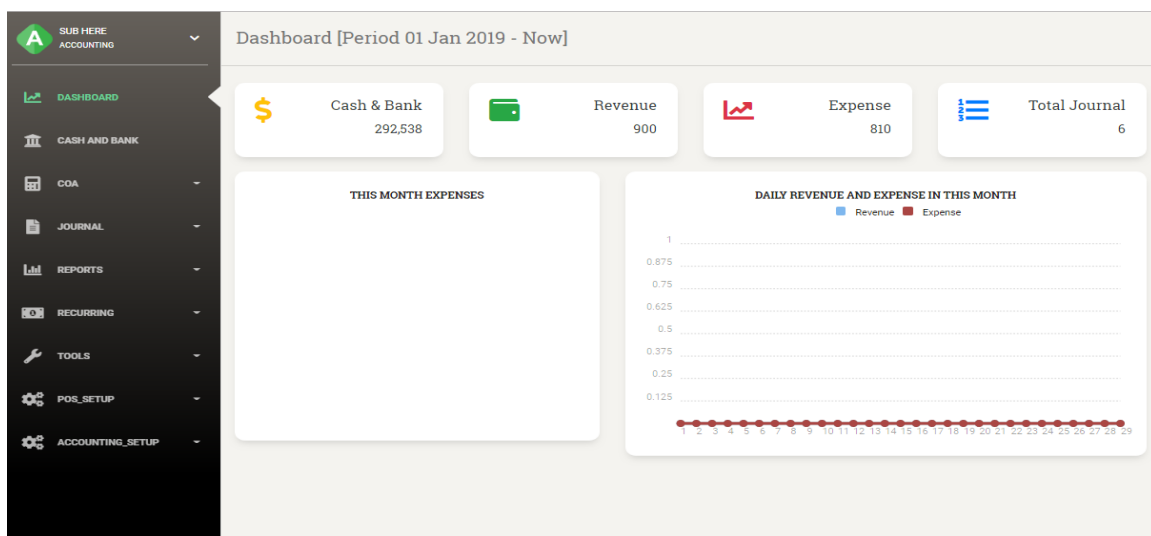


Figure 3.1.1 : Sell & Account

Maintain an account section of a company is a big problem. Managing by excel sheet note book is a big problem or not secure. Any time crush a file or system will make humper. But a cloud is so much secure and fast way to maintain.

3.2 Events and Activities

Kay Kraft depends on Bangladeshi big events. Like BOISAKH,EID,PUJA,BIJOY many others. They have event wise individual dress and Aurnament. They are not selling their product worldwide. They basically selling Bangladeshi traditional dresses.

3.3 Project Task and Activities

Here I'm maintaining two project. Data implement and new rake server stablsh. Kay kraft using this POS system very new, they need all product information inside the data server. To maintain a huge amount of data, need a high powerful server.

I. Work Update

II. Project Update Weekly

III. Meeting and observation

IV. Monthly Seminars

3.4 Challenges

Here is some challenge to maintain a BIG amount of data. Problem identify and its solvency process. Data analysis and its correction. Setup a perfect server to perform without any hassle. Server connected network system maintain is a big challenge to distribution.

3.4.1. Virtual Server maintenance

This server is a server that shares hardware and software resources with many type of operating system, various committed servers. Because they are effective in cost and provide fast resource control, this type of server is popular in web hosting environments.

Maintain server and its network system. A main server handle many of client server and user.



Figure 3.4.1 : Client Server

3.4.2. Cloud Provider

Within a moment calculating hundreds petabytes of data and handle millions of operation by a click its cloud. Setup can get its update with in a second without any time loss. Open adds high availability for live apps and fastest working experience. Storing thousands of data in one place, accessing data from anywhere any time with many kind of devices its cloud. It's a easy manageable platform and highly secure.

Cloud easily managing big data high configure system like Hadoop, Cloud Dataflow and Cloud Data proc. Otherwise cloud big table is an open source and getting standard for new user and who is starting for new.



Figure 3.4.2. Cloud Provider

3.4.3. Cloud Service Controller Agency

Everyone using cloud today. If want to reach a website we are typing `www.....com`, but this is a cloud base system. If it will not a cloud system, we are not able to see this website from many place at a time. For store a big amount of data need a big management. Worldwide very big market giants are providing cloud service.

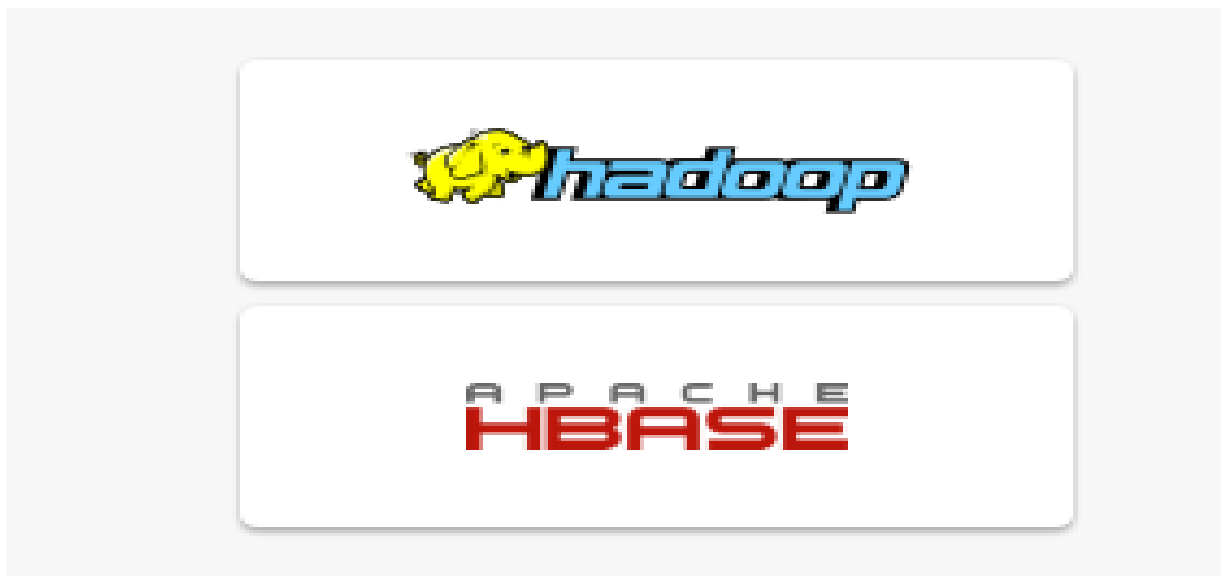


Figure 3.4.3. Cloud Service Controller Agency

3.4.4. Cloud market



Figure 3.4.4 : AWS

Microsoft: Azure Service



Vendors / Microsoft

Cloud Infrastructure

Feedback

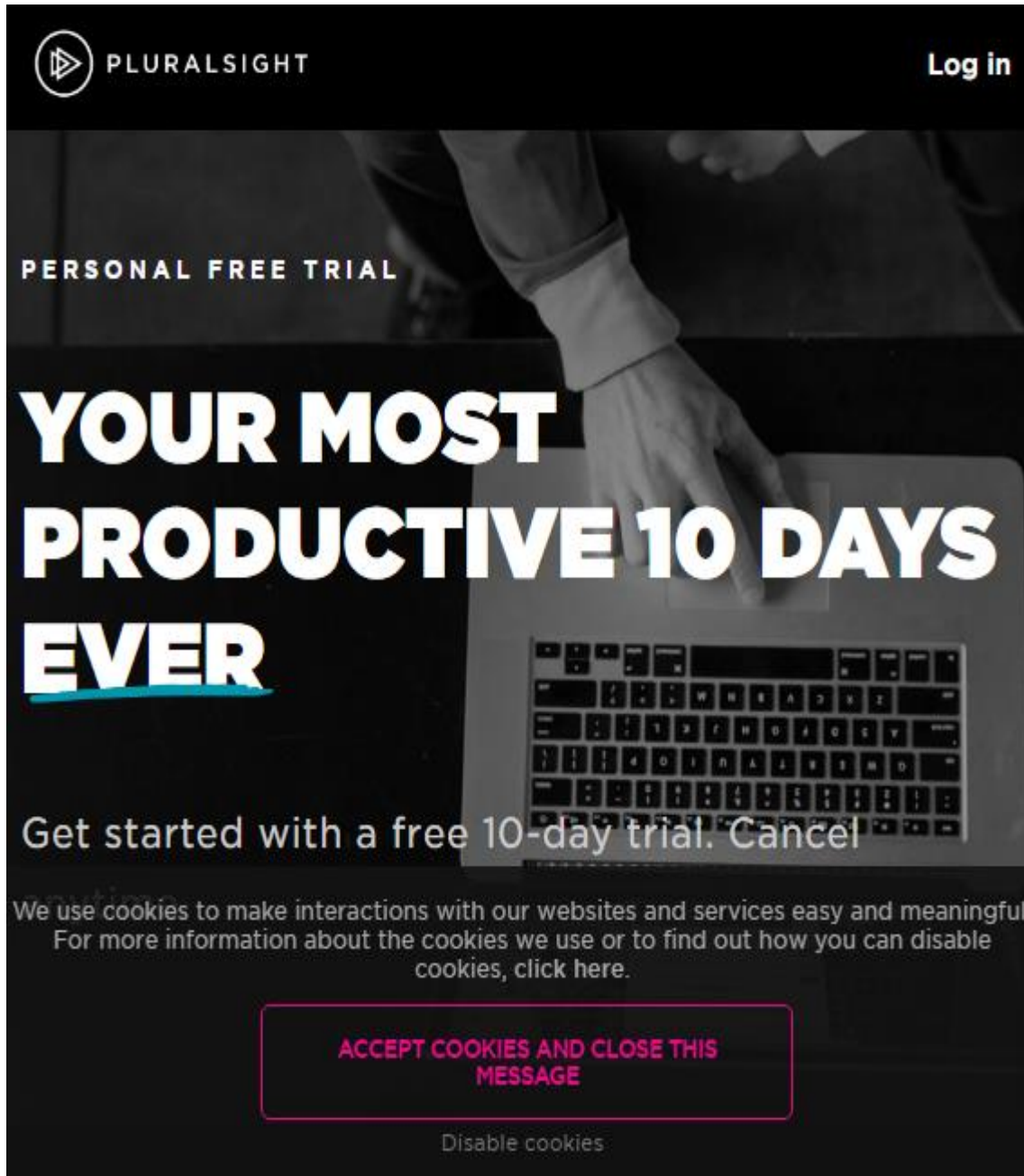
Start exploring the fundamentals of cloud infrastructure  Microsoft with the training in this area of expertise. Learn cloud-based concepts and technologies including virtual private cloud (VPC), cloud networking, and more. Advance your career by gaining new skills in Amazon Web Services and Google Cloud Platform. This training is ideal for IT pros who want to diversify their skill set, as well as learners who are ready to hop on board the cloud revolution.



Start Your Free Week

Figure 3.4.4 : AWS & AZURE

Every day we are using google drive. It's a free store from google for it's user. Google drive is a cloud system.



The image shows a promotional banner for Pluralsight. At the top left is the Pluralsight logo, which consists of a stylized 'P' inside a circle, followed by the word 'PLURALSIGHT' in uppercase. At the top right is a 'Log in' link. The background of the banner is a dark, grayscale image of a person's hands typing on a laptop keyboard. Overlaid on this background is the text 'PERSONAL FREE TRIAL' in white, uppercase letters. Below this is the main headline 'YOUR MOST PRODUCTIVE 10 DAYS EVER' in large, bold, white, uppercase letters, with 'EVER' underlined in a light blue color. Under the headline is the text 'Get started with a free 10-day trial. Cancel' in white. At the bottom of the banner, there is a cookie consent message: 'We use cookies to make interactions with our websites and services easy and meaningful. For more information about the cookies we use or to find out how you can disable cookies, click here.' Below this message is a red rectangular button with the text 'ACCEPT COOKIES AND CLOSE THIS MESSAGE' in white, uppercase letters. At the very bottom, there is a link that says 'Disable cookies'.

PLURALSIGHT Log in

PERSONAL FREE TRIAL

**YOUR MOST
PRODUCTIVE 10 DAYS
EVER**

Get started with a free 10-day trial. Cancel

We use cookies to make interactions with our websites and services easy and meaningful. For more information about the cookies we use or to find out how you can disable cookies, click here.

ACCEPT COOKIES AND CLOSE THIS MESSAGE

Disable cookies

Figure 3.4.4 : Google Cloud

Google Drive.

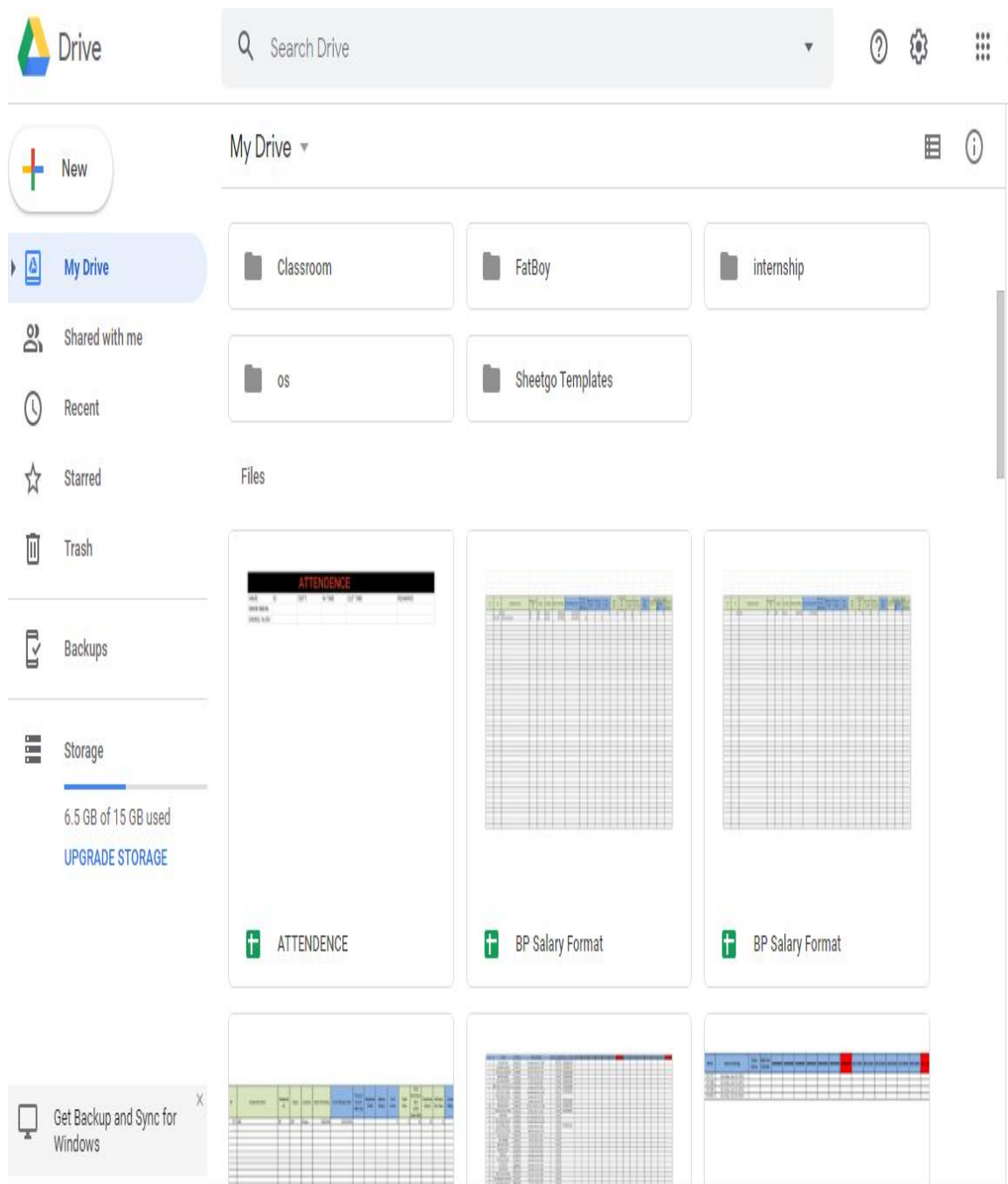


Figure 3.4.4 : Google Drive

CHAPTER 4

Competencies and Smart Plan

Every working purpose has many kind of problem. I'm working with data and server, here I'm facing many kind of problem. At first time I'm working with this type of platform so I have to learn more. Every day I'm working to know new things. Database system develop with SQL platform. Resolve network issues, data analysis and data problem solve.

4.1 Competencies Earned

- I. SQL server Authentication.
- II. Windows server setup.
- III. Database setup.
- IV. Setting up POS Hardware.
- V. Cloud Network Management.

4.2 Smart Plan

For Server

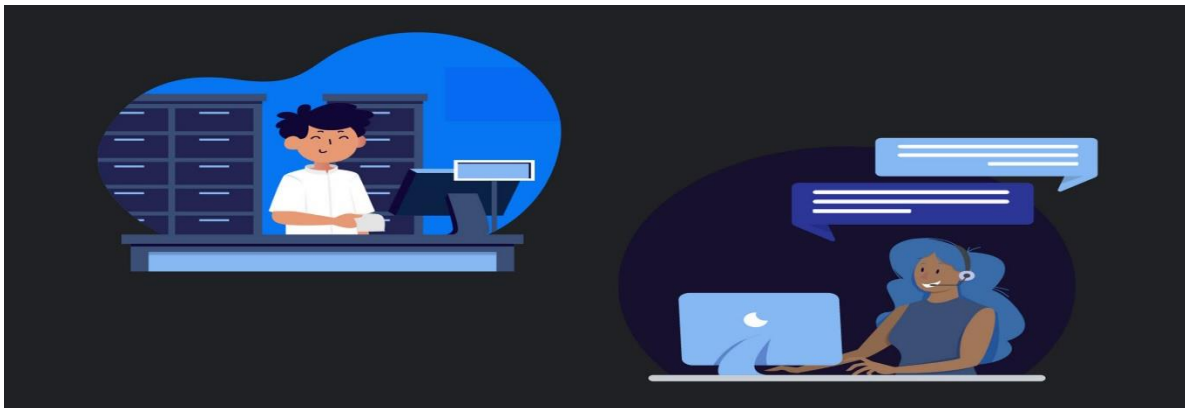
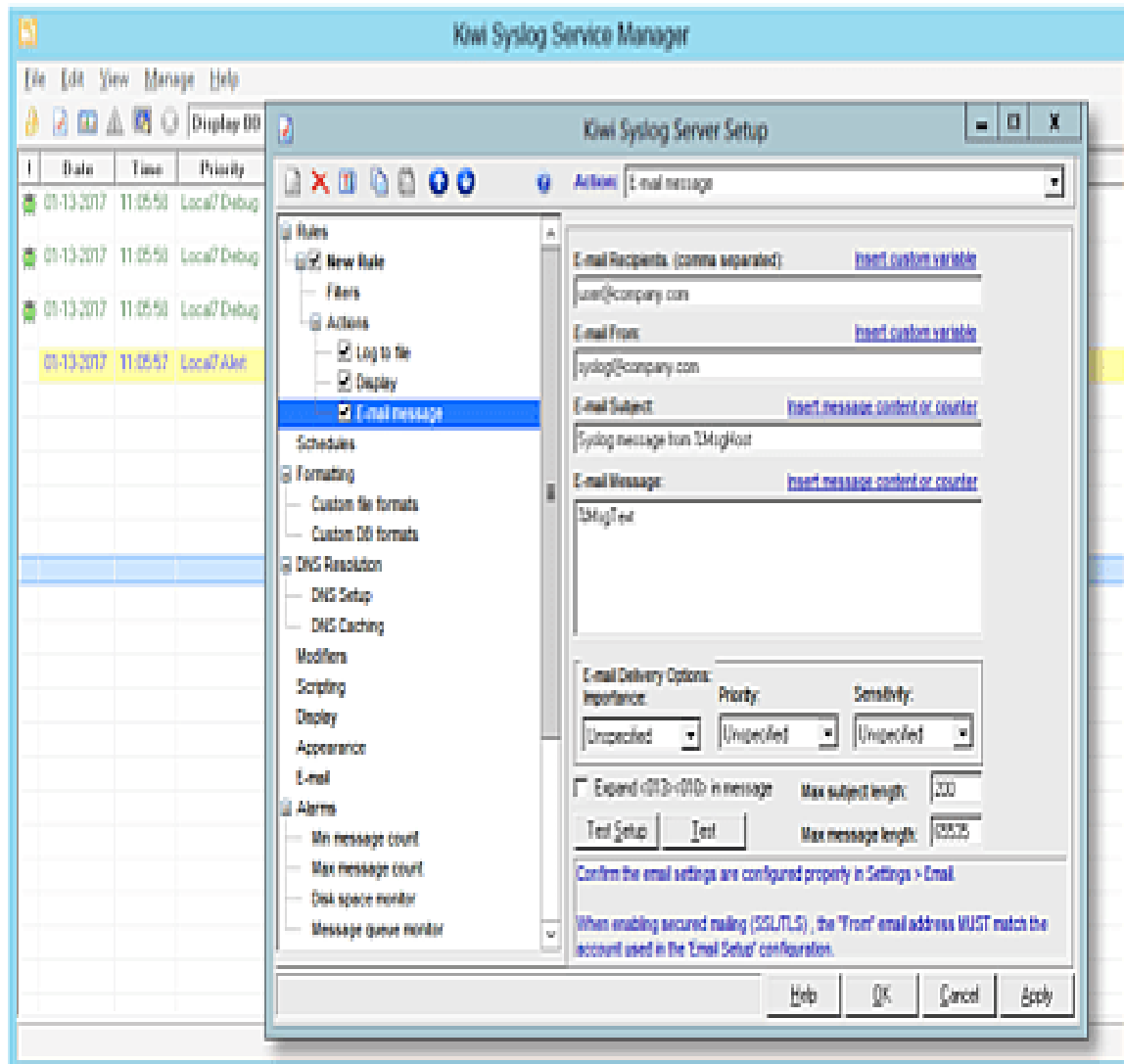


Figure 4.2 : Server maintain

4.2.1. Install & Configure windows server.

Choose an applicable edition of the Windows server. An edition of Windows server supports distinct role/roles that others doesn't support. Think of your present needs and what will you need in the future. How many virtual server do you need and How many you may need for future? Do you need Web server now? How many users will work with the network? They are all the things that you should pay awareness to while making a better plan for windows server installation.



Figure

4.2.1: Server Configure

4.2.2. IT support.

Replace or rise running server to get the most out of acquirable server technology today. Protect blockade and maximize prime with monitoring and maintenance packages. Establish fast, secure, dependable access to resources for employees on the go. VPN and remote access results contain access on mobile devices. Use the right firewall equipment and security trials to keep data and

network safe from breach and network viruses. Support for Windows and cloud-based servers and file services. Set up a network system appropriately to ensure maximum wifi range with lowest security risk.

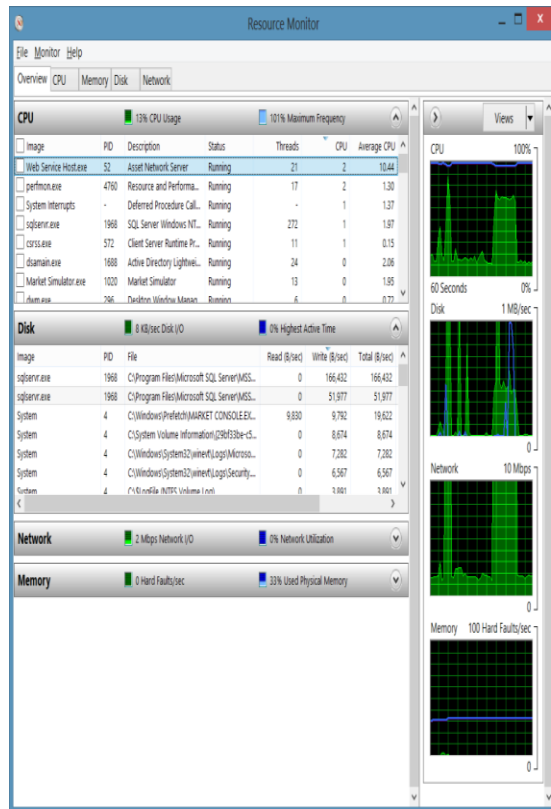
Perform system conservation.

In some armors i noticed degraded overall performance on a Windows Server 2008 R2 or previous machine when running with the default plan. The issue may occur respective of platform and may be habited on both native and virtual climates. The degraded interpretation may accrual the average reactions time for some tasks and cause performance issues with CPU acute applications. Please note that you may not notice any bug issues while performing basic operations.

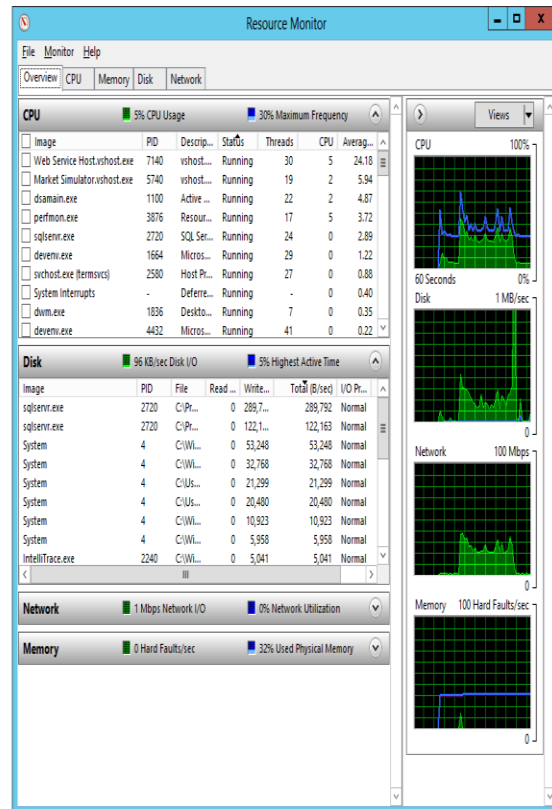
Monitor system performance.

This issue may occur if the power operation climates are set to normal. With default Windows Server 2008 R2 or previous sets the normal power plan, which enables energy maintenance by scaling the processor performance based on current CPU exercise. This issue is tied to dealings between the processors and the system not acclimation P-States and turning off Core Parking as needed. To address processor it claims both apparatus and operating system updates.

Update System BIOS to a current revision. Source the hardware manufacturer for model special suggestions. Apply the applicable hotfix for operating system. Apply the applicable CPU updates.



Windows 8



Windows Server 2012

Figure 4.2.2 : Server Performance

4.2.3. System Backup.

- i. Acronis Cyber backups.
- ii. Acronis Cyber backup cloud for Service Providers.
- iii. Veeam.
- iv. MSP360.
- v. Solarwinds.
- vi. NAKIVO.
- vii. Rubrik.
- viii. Veeam Agent for Microsoft Windows.

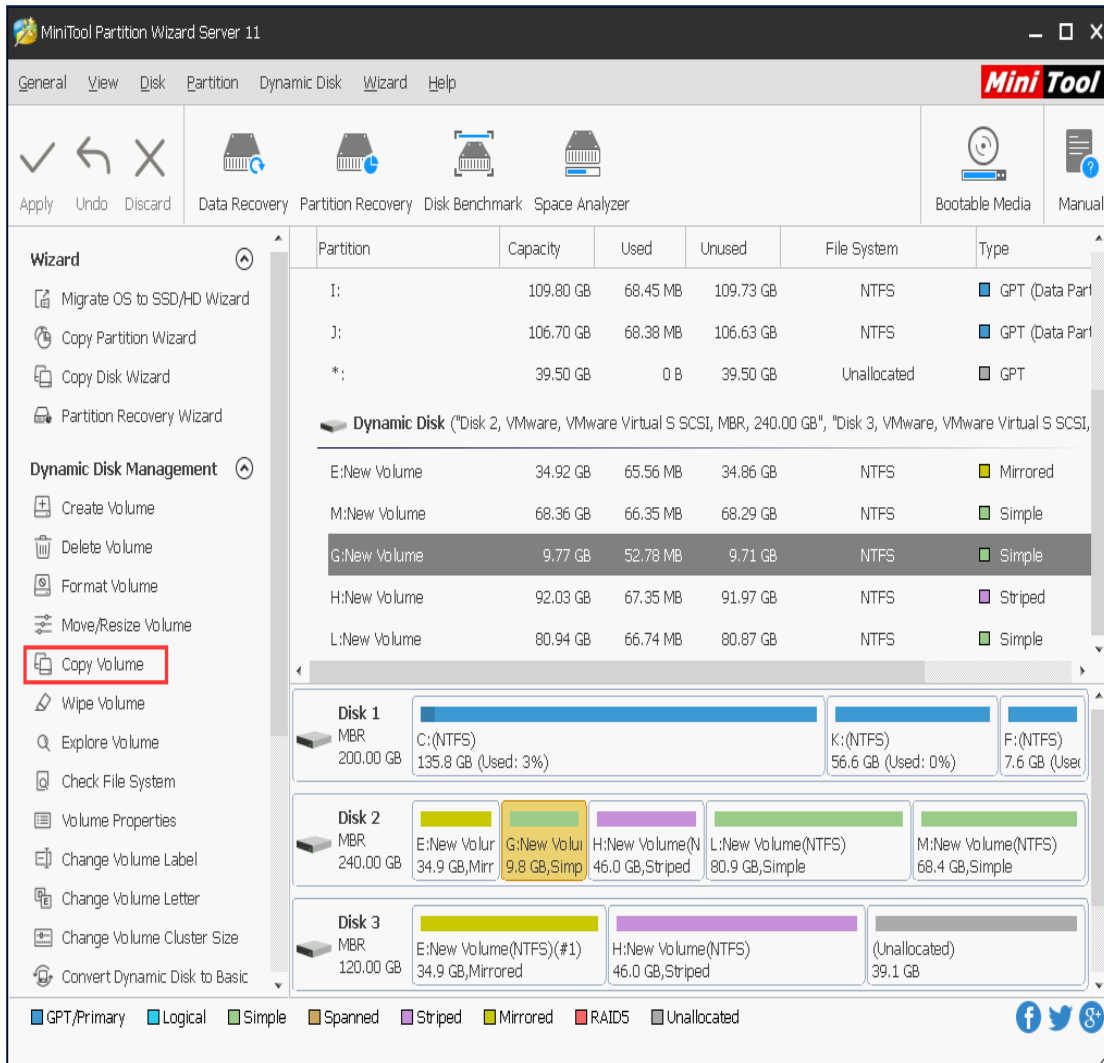


Figure 4.2.3 : Server Backup

4.2.4. System Security maintain.

Server conservation is process of keeping a machine software updated and running so that a computer network can operate easily and avoid layoff or loss of data. Regular preservation will keep the server running as scheduled and will help avoid a total or biased network failure.



Figure 4.2.4 : Server Security

4.3 Reflections

- I. Supervision of modifications to existing database software to meet the needs.
- II. Responsibility for maintaining the integrity and performance of databases system.
- III. Make sure that data is stored securely and optimally.
- IV. Informing users of changes in databases and train them with new update database.
- V. Ensuring the security of total data.

CHAPTER 5

CONCLUTION AND FUTURE SCOPE

5.1 Discussion and Conclusion

I can fairly say that my time spent the company one of the best time of my life. I gain practical skills but I also had the opportunity to meet many exotic people. While I am able to learn a lot from normal office life, overall my internship period is success, I was gain so much practical skill. I worked in a good environment. As far kay kraft is a fashion house, they are manufacturing garments and many other items. I'm getting another opportunity to know about garments item. How to work a production sector, how to distribute and world fashion category.

5.2 Scope for Further Career

Now a day find a good job in our country is a real life challenge. I worked with two other company but complete this internship will make me more expert in real life works. I will stablsh a well career.

Finally thanks to my supervisor and Kay Kraft to give me a great opportunity to internship for my future and better life.

Appendix

Appendix A: Internship Reflection

Cloud Computing Internship content is carefully analyze and prepared by high end technological experts to meet the demands of Mobile App industry. After completing the Internship guidance in kay kraft will be familiar with the IT / Software development. In future cloud will be in every point to serve everyone. It's a very big future for technology experts. Cloud will help me to grow my career.

- i.Real-time project development and Technology Analysis.
- ii.Full practical training
- iii. Hardware and software tools full support.
- iv. Technology training.
- v. Placement training.
- vi. Full documentation and report analysis.
- vii. Industrial exposure.
- viii. Enhancing / Training Corporate skills.

Appendix B: Company Detail

Kay Kraft: House -1/A, Road-13 (New), Mirpur road, Dhanmondi R/A, Dhaka 1205,Bangladesh.

Email: marketing@kaykraft.com, customer.care@kaykraft.com

Website: www.kaykraft.com

References

- I. <http://kaykraft.com/>
- II. <http://120.50.0.4/>
- III. <http://120.50.0.4/kk>
- IV. <https://www.jobhero.com/windows-administrator-job-description/>
- V. <https://www.thebalancecareers.com/database-administrator-job-description-salary-and-skills-2061775>
- VI. <https://cloud.google.com/bigtable>
- VII. <https://aws.amazon.com/cloudfront/>
- VIII. <https://www.pluralsight.com/pricing/free-trial>
- IX. <https://subhere.dealpos.com>

Sakib

by Tanvir Siddiquee

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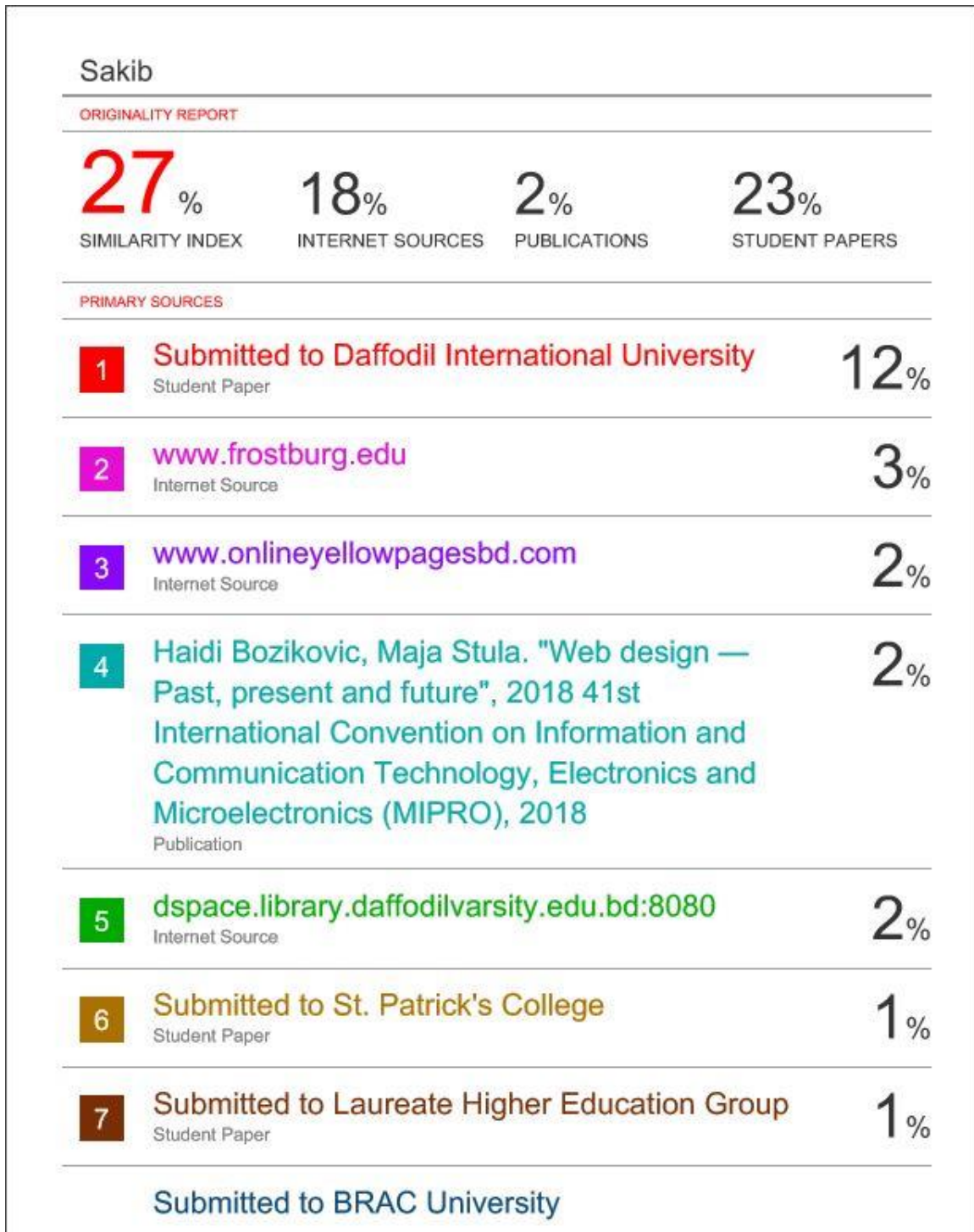


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