### ON THE JOB TRAINING REPORT

*A report Submitted*

In Partial Fulfillment of the Requirements for the Degree Of

### TECHNICAL EDUCATION

in

### COMPUTER ENGINEERING

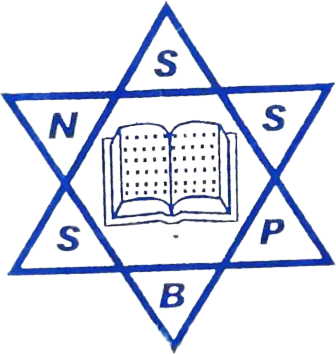
by

### Sahil Kumar Gupta Redg. No.:773421021

**Under Supervision of Mr. Wargis Mehta,**

**Mr. Anish Mehta**

### Full Stack Developer



**(Duration: )**

### DEPARTMENT OF COMPUTER ENGINEER SHREE NRISINGH MADHYAMIK VIDYALAYA PIPRAMATH

**BIRGUNJ-14, PARSA**

National Examination Board, Sanothimi, Bhaktapur

### ~~BAISAKH, 2079~~

Pan No.303934196

# BAY20 SOFTWARE SERVICES

Geeta Mandir, Above Bakery Corner, Near Ghariarwa Pokhari, Birgunj-13(Nepal)

**TO WHOM IT MAY CONCERN**

This is certifying that Mr. Sahil Kumar Gupta. A student of Shree Nrisingh Madhyamik Vidyalaya Pipramath Birgunj-14, (Student of Technical and Vocational education) has interned with from ~~20~~~~th~~ ~~Asoj 2078 to 10~~~~th~~ ~~Baisakh 2079~~ as a Web Designer. He has worked on different website designs on the CMS like Wordpress, & Shopware. Also, he has designed Mockup on Adobe XD and have hands on experience on Basic Photoshop tools. He has successfully completed the job training (OJT) program and his work has been found to be good.

During the internship, the character and conduct of Mr. Sahil Kumar Gupta were found to be excellent. He has actively participated in various processes of the Company and we are impressed by his work habits we take this opportunity to thank him. We wish him very successful in life.

…………………………….. Proprietor’s Sign

Bay20 Software Services

Geeta Mandir, Birgunj 13(Nepal)

**SHREE NRISINGH MADHYAMIK VIDYALAYA**

PIPRAMATH, PARSA BIRGUNJ

### DIPLOMA IN COMPUTER ENGINEERING

#### CERTIFICATE

It is my pleasure to report that Mr. Sahil Kumar Gupta, 12th grade Technical student from ***Shree Nrisingh Madhyamik Vidyalaya, Birgunj-14, Pipra, Nepal*** has successful completed his/her internship and job training start from ~~20~~~~th~~ ~~Asoj 2077 to 10~~~~th~~ ~~Baisakh 2078.~~

In the short period of time he has gathered a lot of information from various divisions and its section of our Company which includes Programming, Software Testing and worked in our software.

During this time, we found him very hard working enthusiastic, and curious about the teaching related job.

We wish him/her for very success in his/her Future endeavors.

Mr. Sanjay Saxena(Co-Ordinator) …………………………..

Mr. Wargis Mehta (CEO) ………………………….

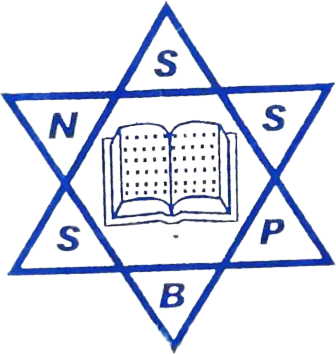
Name: ………………………………… …………………………..

External

## SHREE NRISINGH MADHYAMIK VIDYALAYA

PIPRAMATH, PARSA BIRGUNJ

### DIPLOMA IN COMPUTER ENGINEERING



**No Objection Letter**

***Mr. Sahil Kumar Gupta of Shree Nrisingh Madhyamik Vidyalaya, Birgunj-14, Parsa dt., Nepal having Symbol No. 2340264 and Registration No. 773421021*** has completed his job training with a disciplined behavior attitude. He demonstrated a sound personality during his/her tenure in our school. We have no Objection whatever regarding his/her on-the-job training (OJT) that he has undergone at our school.

Mr. Sanjay Saxena (Co-Ordinator) …………………………..

Er. Santosh Kumar Shah (Supervisor) …………………………..

Mr.Wargis Mehta (Full Stack Developer) ………………………….

Name: ………………………………… …………………………..

External

**ACKNOWLEDGEMENT**

First and foremost, I humbly offer my glory and honor to the Almighty NRISINGH for the gift of life and giving me strength to perform my responsibilities as an Internee and complete the report within the stipulated time.

I am deeply indebted to my Agency supervisor Mr. Wargis & Anish Mehta, for his whole-hearted supervision during my organizational attachment, senior Developer of the Web-design and Development department, and to the entire staff of Shree Nrisingh Madhyamik Vidyalaya in Nepal for extending their support towards the success of my Organizational attachment (internship). I am also grateful to Mr. Wargis Mehta to carry out my internship from their company (Bay20 Software Services) and also for being my work place as Web-Designer. It would have been very difficult to prepare this report without their guidance.

My gratitude goes to the entire computer science department of Shree Nrisingh Madhyamik Vidyalaya in Nepal for arranging Organizational attachment (internship-program) that facilitates integrating of theoretical knowledge with real life situation.

Last but not least of all, I owe so much to my whole family for their undying support, their unwavering belief that I can achieve so much unfortunately, I cannot thank everyone by name because it would take a lifetime but, I just want you all to know that you count so much, had it not been for all your prayers, love and help, I would never have completed this report. So, thank you all.

##### What types of knowledge and work do I get by doing on-the-job training (OJT)?

It’s Mr. Sahil Kumar Gupta from **SHREE NRISINGH MADHYAMIK VIDYALAYA PIPRAMATH BIRGUNJ-14.** I had completed my on-the-job Training in the Bay20 Software Services, Birgunj Nepal. I had learned and also work on Projects.

1. Learned About HTML & CSS.
2. Learned About JavaScript.
3. Learned CSS and its pre-processor like LESS & SASS.
4. Learned Web Library like JQuery, Bootstrap.
5. Learned about e-mailing.
6. Learned Word Press.
7. Learned GIT (Command line and GUI).
8. Learned Adobe Photoshop and XD.
9. Created logos, banner, resizing images using Photoshop.
10. Converted XD, PSD Mockup To Word press and Static Webpage.

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**Introduction**

SHREE NRISHINGH MADHYAMIK VIDYALAYA PIPRAMATH

BIRGUNJ-14, well established in Birgunj Town Since 2005 BS provides education in different sectors with government regards. It also runs computer diploma from class 9 to 12.

#### On The Job Training

OJT provides us great opportunity to enhance our skill related to job oriented capabilities. OJT plays viral role to utilize the time and enhance the work oriented skill.

#### Bay20 Software Services

Bay20 Software Consultancy Services Pvt. Ltd. started with the purpose of providing expert e-Commerce development and design services nationwide and globally. We have been able to gain popularity and growth by the virtue of great team and quality services.Bay20 Software Consultancy Services Pvt. Ltd. is an ISO 9001:2008 certified e-commerce solution provider. We are customer centric team lead by a Certified Magneto Developer Plus and ITIL Certified in IT Service Management. We are a team of experienced and passionate ecommerce Developers and Designers. The team has diversity in terms of skill-set. This diversity in skills makes us perfect team to deal with e-Commerce projects. We have a passionate team of web professionals. We have extensive experience in building robust and scalable web application with good quality.

Chapter One:

**Introduction class:**

Observe my working on job style. How I am working in lab room. I am capable for it or no. If any trouble happened, then I am able to troubleshoot them or not. I am capable troubleshoot or not.

##### Basic thing about Web Designing:

##### Web design encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design, user interface design (UI design), authoring, including standardized code and proprietary software, user experience design (UX design), and search engine optimization.

##### Often many individuals will work in teams covering different aspects of the design process, although some designers will cover them all. The term "web design" is normally used to describe the design process related to the front-end (client side) design of a website including writing markup. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating markup then they are also expected to be up to date with web accessibility guidelines.

##### Advantages of web designing.

Now’s a day web designing is part of every website. Some of the advantages are given below:-

* + 1. It sets the first impression.
    2. It helps your search engine optimization (SEO) strategy.
    3. It sets the impression for customer service.
    4. It builds trust with your audience.
    5. It creates consistency.

##### INTRODUCTION TO HTML

##### 1.1 Introduction to HTML

##### HTML stands for “HyperText Markup Language” for creating Web pages. It describes the structure of a Web page consists of a series of elements, each containing one or more HTML tags that provide instructions on how to render each element. HTML elements tell the browser how to display the content. Each element has an opening tag and closing tag - some elements may just have a single tag - with content placed between these tags - and may enclose further HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc. HTML has opening and closing tag.

##### 1.1 Important Tags of HTML

##### 1.7 HTML TABLE

##### A table in HTML consists of table cells inside rows and columns. HTML tables allow web developers to arrange data into rows and columns.

##### 1.7.1 Table Header, Body, and Footer

##### Tables can be divided into three portions − a header, a body, and a foot. The head and foot are rather similar to headers and footers in a word-processed document that remain the same for every page, while the body is the main content holder of the table.

##### The three elements for separating the head, body, and foot of a table are −

##### <thead> − to create a separate table header.

##### <tbody> − to indicate the main body of the table.

##### <tfoot> − to create a separate table footer.

##### A table may contain several <tbody> elements to indicate different pages or groups of data. But it is notable that <thead> and <tfoot> tags should appear before <tbody>

##### 1.8 HTML FORM

##### Introduction to HTML Forms

##### An HTML form is used to collect user input. The user input is most often sent to a server for processing. The HTML <form> element is used to create an HTML form On the Webpage. The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

##### 1.8.1 INPUT TAG

##### The HTML <input> element is the most used form element. An <input> element can be displayed in many ways, depending on the type attribute.

##### Here are some examples:

|  |  |
| --- | --- |
| <input type="text"> | Displays a single-line text input field |
| <input type="radio"> | Displays a radio button (for selecting one of many choices) |
| <input type="checkbox"> | Displays a checkbox (for selecting zero or more of many choices) |
| <input type="submit"> | Displays a submit button (for submitting the form) |
| <input type="button"> | Displays a clickable button |

##### 

##### 1.2 Intro to CSS

##### While HTML is the fundamental structure of every web page, it can be visually unappealing on its own. Cascading Style Sheets or CSS is a language web developers use to style the HTML content on a web page. If you’re interested in modifying colors, font types, font sizes, images, element positioning, and more, CSS is the tool for the job!

##### In this lesson, you’ll learn how to set up your CSS file structure and select which HTML elements you wish to style.

##### Instructions

##### Take a look at the code in index.html and observe how it displays in the browser to the right. This is plain HTML without any styling. Let’s take a quick look at the power of CSS.

##### <link href="style.css" rel="stylesheet">

##### What happens when you press the Run button?

##### Take some time to explore and experiment with the code in the style.css file.

##### 1.2.2 SELECTORS

##### Type

##### Remember that declarations are a fundamental part of CSS because they apply a style to a selected element. But how do you decide which elements will get the style? With a selector.

##### A selector is used to target the specific HTML element(s) to be styled by the declaration. One selector you may already be familiar with is the type selector. Just like its name suggests, the type selector matches the type of the element in the HTML document.

##### In the previous lesson, you changed the color of a paragraph element.

##### p {

##### Color: green;

##### }

##### This is an instance of using the type selector! The element type is p, which comes from the HTML <p> tag.

##### Some important notes on the type selector:

##### The type selector does not include the angle brackets.

##### Since element types are often referred to by their opening tag name, the type selector is sometimes referred to as the tag name or element selector.

##### Instructions

##### Open style.css. On line 5, add a ruleset using the type selector to target all <h1> elements. Leave the declaration block ({ }) empty for now.

##### Inside the curly braces of the h1 selector, add the declaration below:

##### color: maroon;

##### Note that the content of the web page will update because we’ve already linked style.css to index.html.

##### 1.2.3 Introduction To Visual Rules

##### The purpose of CSS is to add style to web page, and each element on the page can have many style properties. Some of the basic properties relate to the size, style, and color of the element. In this lesson, you’ll learn some fundamental CSS visual rules that you can use to start styling web page elements!

##### Instructions

##### Explore the code to the right. Think about how it relates to the web page on the right side of the browser.

##### 1.2.4 THE BOX MODEL

##### Introduction to the Box Model

##### Browsers load HTML elements with default position values. This often leads to an unexpected and unwanted user experience while limiting the views you can create. In this lesson, you will learn about the box model, an important concept to understand how elements are positioned and displayed on a website.

##### If you have used HTML and CSS, you have unknowingly seen aspects of the box model. For example, if you have set the background color of an element, you may have noticed that the color was applied not only to the area directly behind the element but also to the area to the right of the element. Also, if you have aligned text, you know it is aligned relative to something. What is that something?

##### All elements on a web page are interpreted by the browser as “living” inside of a box. This is what is meant by the box model.

##### For example, when you change the background color of an element, you change the background color of its entire box.

##### In this lesson, you’ll learn about the following aspects of the box model:

##### The dimensions of an element’s box.

##### The borders of an element’s box.

##### The paddings of an element’s box.

##### The margins of an element’s box.

##### Let’s begin!

##### Instructions

##### Take some time to explore the code to the right. See if you can figure out how these following CSS properties impact how an element is displayed:

##### width

##### height

##### padding

##### Overview of software

In this used software. This software is active school. This software type is utility software. In this software I am managing all thing like teacher attendees, students mark sheet, monthly bill and repot card etc. Enter new record when student got admission in this school.

##### Lab maintain

In this school, I maintained all computer labs for the student to

properly maintain the computer lab. In practical time any problem then I am solving this problem.

##### Software installation

Install all kinds of software which uses for the student like

typing master, Microsoft office adobe Photoshop, chrome, antivirus, etc. Software installation refers to the particular configuration of software or hardware with a view to making it usable with the computer. A soft or digital copy of the piece of software (program)is needed to install it. There is a different process of installing a piece of software.

##### CPU Repair

Computer repair is the process of identifying troubleshooting and resolving problems and issues in a faulty computer. Computer repair is a broad field encompassing many tools techniques and procedures used to repair computer hardware software or network internet problems.

##### Changing RAM

If your window pc is running slowly or if you can't run certain software on it of upgrade its operating system increasing the computer RAM iIt may help. The type of RAM you need depends on the make and it's a desktop or a laptop. In addition requirements for which generation of RAM it will accepts. So, be sure to look up the specifications for your machine. You also need to know which slots on the motherboard and in which combination you can install the RAM modules.

##### Virus scan

A virus scan is the process of using antivirus software to scan and identify

virus in a computing device. It is an information security process that aims to review and identify threatening viruses and program. It is the core feature of antivirus software

##### Format partitions

Disk formatting is the process of preparing a data storage device such as a hard disk drive, solid state drive floppy disk or UAB flash drive for initial use. Partitioning is the common term for the second part of the process, making the data storage device visible to an operating system.

##### Hardware concept

The term hardware refers to mechanical device that makes up computer. Computer hardware consists of interconnected electronic device that we can use to control computer's operation, input and output. Example of hardware are

CPU, keyboard, mouse and hard disk, etc. computer hardware is a collection of several components working together. Some parts are essential and others are added advantages. Computer hardware is made up of CPU and peripherals.

##### Assembly system

An assembly system is one of the subsystems in a manufacturing system factory where the individual components of a product are joined together and thus integrated into a semi-finished or into the final product.

##### Repair system

Computer repair is the process of identifying, troubleshooting, and resolving problems and issues in a fault computer. Computer repair is a market today to choose from. Antivirus software begins operating by checking your computer programs and files against a database of known types of malware. Since new viruses are constantly created and distributed by hackers, it will also scan computers for the possibility of a new or unknown type of malware threats. Typically, most programs will use three different detection devices, specific detection, which identifies known malware, generic detection, which looks for known parts or types of malware or patterns that are related by a common codebase, and heuristic detection, which scans for unknown vines by identifying known suspicious file structures.

##### Cleaning Motherboard

Cleaning the motherboard is one of the most important things you can do because the motherboard is one the most important part of your computer. Even a small problem or a piece of dirt on the motherboard can impact the performance. Even worse, doing something wrong can absolutely destroy. It if you are going to build your own computer, you will need to learn how to maintain and look after this sensitive piece, with time and use, your motherboard is going to get dusty. As most of us don't clean computer parts, we don't really know how to do keep everything looking brand now.

##### Changing SMPS

Switched mode power supply is an electronic circuit which converts the power using switching devices that are turned on and off at high frequencies, and storage components such as indicators or capacitors to supply power when the switching device is in its non-conduction state. It can be abbreviated as SMPS. The switched mode power supply is also called switched mode power supply or switching mode power supply. Its efficiency is high. That's why we use it in the variety of electronic types of equipment which require a stable and efficient power supply.

##### Changing SATA cable

The term SATA generally refers to the types cables and connections that follow this standard. Storage devices can transmit data of computer much, faster than an otherwise similar PATA device. Compared to parallel ATA, Serial ATA also has the benefit of cheaper cable costs and the ability to hot-swap devices. To hot swap means that the devices can be replaced without turning off the entire system. With PATA devices, you have to shut off the computer before replacing the hard drive

##### Hard disk replace

If your computer experiences sign of hard drive failure, it's best to replace it before it completely wears out. This gives you a chance to save the data stored on it, including your operating system. While it's a more complicated repair than many consumers feel comfortable performing on their own, you can save money by doing it yourself. In the following guide, we'll explain the basic steps for how to replace a hard drive, as well as the best way to get the operating system up and running again. This guide works for both replacing a defective hard and for swapping out an outdated one for something with more space and speed. Put the new drive-in. simply reverse the steps you already performed. Plugin the power connectors according to the new drive's documentation, the follow-up with data connections cords. Depending on how short the connectors are, you may have to slide the drive into the bay first. A small flashlight can be helpful for seeing into the small space of the bay as you work. Replace the screws that hold the drive into the case, replace the computer case door, and you're now ready to set up a new drive.

##### Antivirus installation

Antivirus programs and computer protection software are designed to evaluate data such as web pages, files, software and application to help find and eradicate malware as quickly as possible. Most provide real-time protection, which can protect your devices from incoming threats, scan your entire computer regularly for known threats and provide automatic updates, and identify, block and delete malicious codes and software. Because so many activities are now conducted online and new threats emerge continuously, it's more important than ever to install a protective antivirus program. Fortunately, there are a number of excellent products on the market today choose from, Antivirus software begins operating by checking your computer programs and files against a database of known types of malware. Since new viruses are constantly creating and distributed by hackers, it will also scan computer for the possibility of new or unknown type of malware threats. Typically, most programs will use three different detection devices: specified detection, which identifies known malware, generic detection which looks for known parts or types of

malware or pattern that are related by a common codebase, and heuristic detection, which scans for unknown viruses by identifying known suspicious file structures. When the program finds a file that contains a virus, it will usually quarantine it and/or mark it for detection, making it inaccessible and removing the risk to your device.

##### Printer Repair

Printer repair services provide maintenance and repair function for computer printers and plotters. Deciding on printer repair or replacement depends mainly on the component that has stopped functioning, Printer repair services offers on site printer repairs services printer repair vouchers (ideal for larger companies), comprehensive printer service and printer maintenance contracts, workshop printer repairs, printer installation and relocation, printer operator training, engineer training. printing solutions advice, printer and copier replacements, printer consumable sales, and spare part identification and supply. Different types of printer that printer repair services cover include laser printers, dye sublimation printers, ink jet printers, plotters, direct thermal printers, line printers, thermal transfer printers, flexographic printers, hot stamping printers, letter press printers, offset printers, pad printers, rotogravure printers, screen printers, letterpress printers, dot matrix printers and LED/LCD printers.

##### 12.1 Drum change

Everyone who owns a laser printer is familiar with replacing a toner cartridge. Not everyone is as familiar with drum units. So before we go any further, let's define them both: Both of these components are essential for producing a print. Depending on what printer you own, you might be used to replacing your drum unit occasionally, or your may have never had to replace a drum unit so, why the inconsistency? It is all contingent on the design of your printer. A drum unit can be incorporated with the toner cartridge, or sold separately as a single unit, depending on the consumable requirements of your printer. Laser printers and their consumables vary across printer models. Some printers only need you to replace the toner cartridge and the drum unit. Consult your printer's user manual to determine what consumables are appropriate for your machine.

##### Internet connection

Internet connection options vary by internet service provider

and by region. Customers should consider some of the following factors before selecting an internet package and internet connection type: connection speed or bandwidth, cost, availability, reliability and convenience. In order to determine what internet plan is right for you, we recommend you review the different types of internet connections and connections speeds available on the market today. When determining which type of internet speed and internet connection type is right for you, or your

family, it's important to understand the distinction between each connection. In today's age there are numerous ways to connect laptops, desktops, mobile phones, gamming consoles, e-readers and tablets to the internet.

##### window installation

**How to install window step by step**

1. First we make a pen drive bootable
2. Second we are our system is turned off
3. Then insert bootable pen drive in computer
4. After we press power button of pc along press boot key your pc (eg. 19 for hp, F12 for dell)
5. Then itself come boot manager
6. Then choose option USB hard drive and press enter on your keyboard
7. Then come three option
   1. Language to install: In this option select language.
   2. Time and currency format: In this option choose any option
   3. Keyboard or input method: In this option choose keyboard
8. Then click on next button
9. Then come "Install now" button click on
10. Then come window license: then click "accept and press next button
11. Then come two options:
    1. Upgrade: install windows and keep files, setting
    2. Custom: install windows only
12. Then you can choose any one option
13. Then come" where you want to install windows then you choose partition drive and click ok
14. Then starting windows installation it takes five to ten minutes then your system automatically restart
15. Then you can remove our pen drive
16. Then we manage our all setting.

##### Office package installation

**How to install office package step by step?**

1. First we download Microsoft office from internet
2. Then extract Zip file and search setup
3. Then double click on setup and press enter
4. Then show product key
5. Then we copy product key from instructions file then paste
6. Then click on ok
7. Then starting installing its take five to seven minutes’ time
8. Then finish on click

Pan No.303934196

# COSMIC COMPUTER

MOHANMARKET GHANTAGHAR, BIRGUNJ

**S.N………….**

**Conclusion**

If you are Technology Geek and have guts to sort and problem of related to Computer, then it’s a very good business opportunity to earn handsome profiles. You should have the skills, the time or the desire to do the computer service, repair and upgrades then it’s your Business.

1. How to remove virus?
2. How to install antivirus in computer system?
3. How to do troubleshooting?
4. How to install operating system.

If you’re starting to notice strange things happening to your files and folders, this could be an indication of a malware infection. The longer you leave it unchecked, the more your data is at risk as well as any other devices attached to the same network.

…………………………….. Proprietor’s Sign

Cosmic Computer Mohanmarket Birgunj Nepal