TECHNICAL REPORT ON STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME (SIWES)

HELD AT

NIXSOFT I.C.T, TANKE, ILORIN KWARA STATE

BY

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SUBMITTED TO DEPARTMENT OF COMPUTER SCIENCE INSTITUTE OF INFORMATION AND COMUNICTION TECHNOLOGY (IICT) KWARA STATE POLYTECHNIC, ILORIN

IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE AWARD OF NATIONAL DIPLOMA (ND) IN COMPUTER SCIENCE

TABLE OF CONTENT

DEDICATION

This report is dedicated to Almighty allah for His divine mercy on me and my family who has given me the strength, wisdom, knowledge and understanding in working toward my success, I also dedicate this report to my parent and the family for their support and to my supervisor for the success of this report.

ACKNOWLEDGEMENT

To God who owns life, I wish to express my sincere appreciation and gratitude for seeing me throughout my duration in Kwara State Polytechnic and for making my vision come to reality, also for His Goodness, Mercy, Provision and Grace upon my life.

My profound gratitude goes to my sincere appreciation goes to My Dear Parent Mr and Mrs. OSHE may God be with you.

My special thanks goes to the head of Department MR OYEDEPO F.S and the Entire staff of computer science department, institute of information and communication technology, Kwara State Polytechnic for sharing wealth of experience with me in my course of study.

Furthermore, thanks goes to my honorable and diligent supervisor for his advice, guidance and adequate encouragement relish from him which has contribute in no small measure to the success of completion of this report.

Finally, my sincere gratitude also goes to my lovely friend both within and outside the institution,

ABSTRACT

This report gives a good account of the training and experience which exposed student during the student industrial work experience (SIWES) at God Grace Computer Center.

CHAPTER ONE

1.1 INTRODUCTION

This program called (SIWES) student industrial work experience scheme is compulsory to all ND1 student who offer science course or any other practicable course. It enables student to have the experience of the aspect which have been taught in school. It is a program that takes up to four month in which student are expected to be able practices what they are taught.

1.2 AIMS AND OBJECTIVES OF SIWES

The student industrial work experience scheme (SIWES) can be define as a technical skills and acquisition of knowledge from the organization, industrial sector. It is also serving as the complement the learning which student have acquired in the classroom or theoretically.

The objective of the student industrial work experience scheme is as follow

- It enables the student to practically different test from what they learnt theoretically in the classroom.
- It also enlighten student to various s division of industrial or organization of work in which the course of study can be radicalized.
- It relate the student to the labor market and how it being operated.
- To enable student to defend his or her self in anywhere he or she found itself.

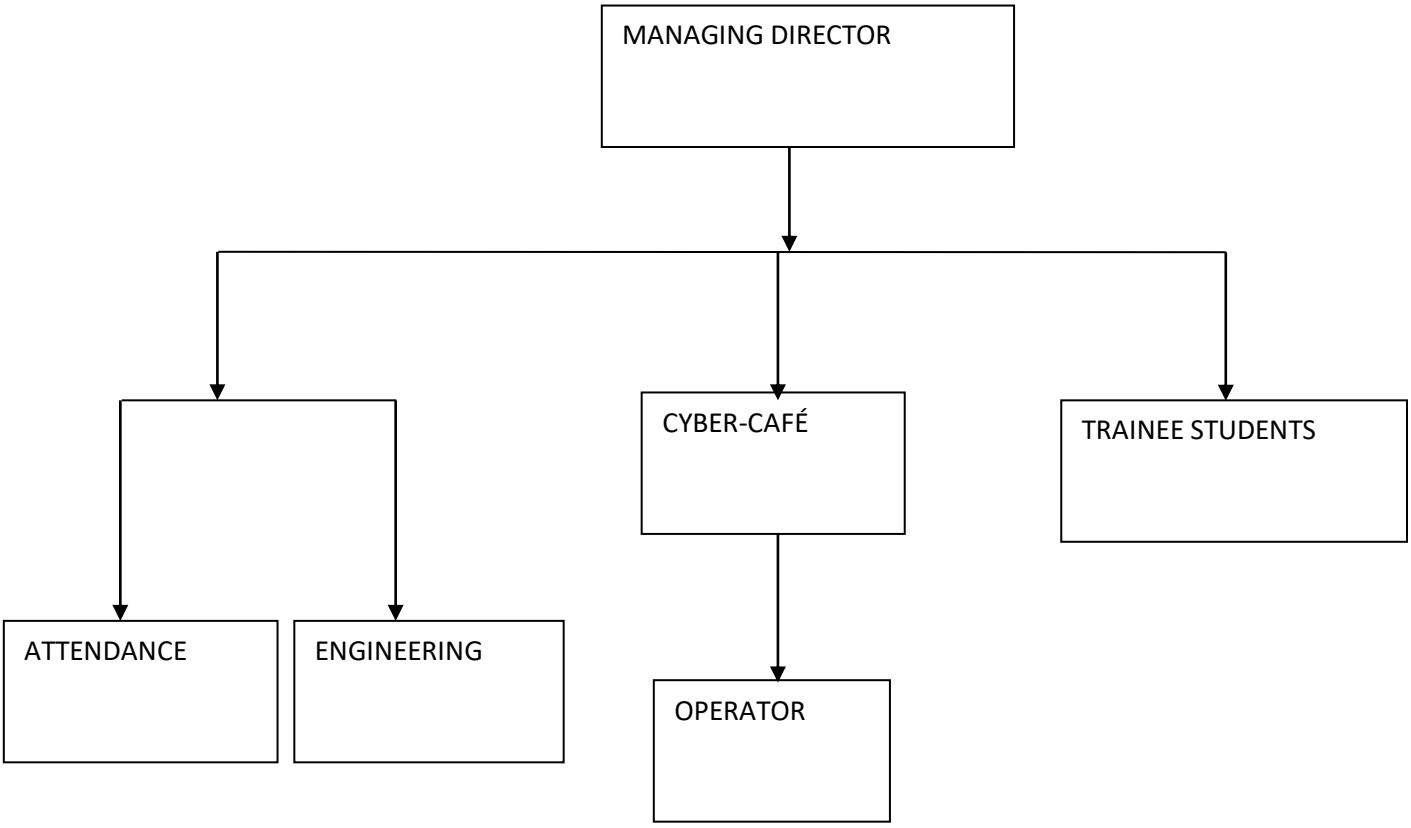
HISTORICAL BACKGROUND OF NIXSOFT ICT

Nixsoft ICT was established with a vision to bridge the digital divide by providing top-notch ICT services and training to businesses, students, and individuals in Ilorin, Kwara State. Founded in response to the growing demand for reliable digital solutions, the company has steadily evolved into a trusted name in the technology industry.

Since its inception, Nixsoft ICT has been committed to offering a wide range of services, including computer training, graphic design, software solutions, business registration, and online services. By leveraging modern technology, the company has empowered students and professionals with essential digital skills, making it a hub for innovation and knowledge.

Located in Tanke, a strategic area known for its vibrant academic and business activities, Nixsoft ICT has played a significant role in equipping individuals and enterprises with the tools they need to succeed in the digital world. With a customer-first approach and a commitment to excellence, the company continues to set standards in ICT service delivery in Kwara State and beyond.

1.4 ORGANIZATION CHART



1.5 MAJORACTIVITIES OF THE ORGANIZATION

The major activity of the organization is operating of cyber-café, troubleshooting of system, of system, working on Microsoft Word and also students teaches about computers in general. The organization also accommodate SIWES student.

Other activities performed by the organization are:

1. The organization based on graphic design and internet application.
2. The organization also based on training student in practical aspect.
3. The organization also goes about installation of software.

CHAPTER TWO

2.1 SECTION/UNITS OF THE ORGANIZATION AND THEIR SPECIFIC FUNCTION

Trainee is applicable to all various sections in the organization such as photocopying of document, typing in Microsoft word and laminating and lots more.

2.2 STUDENTS INVOLVEMENT AT VARIOUS SECTION/UNIT

Student performed well in the section which he found himself in such as typing, photocopying and taking lesson about the computer peripherals.

2.3 INTERPERSONAL RELATIONSHIPS WITH THE ORGANIZATION

Pertaining to interpersonal relation there was cordial and sustained relationship among the staff, manager and the SIWES students.

CHAPTER THREE

3.0 WORK ACTIVITIES AND EXPERIENCE GAINED

WEEK ONE REPORT

This week, I was introduced to web design, which involves creating visually appealing and user-friendly websites. I learned the difference between web design, which focuses on aesthetics and user experience, and web development, which deals with coding and functionality. Key design components such as layout, typography, color schemes, graphics, content, UX, and UI were explored. Additionally, I studied the roles of a web designer and the concept of web hosting, which enables website accessibility through domain names and URLs. Lastly, I learned about the client-server architecture, where the client (user's device) interacts with the server that stores and manages website.

WEEK TWO REPORT

This week, I developed a medium-fidelity wireframe, adding placeholders, basic styling, and grid elements to refine the website layout and spacing. I reviewed and adjusted the wireframe to improve its structure and alignment. I also learned about Figma, a collaborative web-based tool for user experience (UX) and user interface (UI) design, used to create wireframes, prototypes, and high-fidelity designs for websites and mobile applications. Additionally, I practiced using Figma's basic tools for wireframing, including navigation, frame creation, and layout structuring. Lastly, I explored Figma's components, interactive transitions, and team collaboration features while providing and receiving feedback.

WEEK THREE REPORT

This week, I learned about Relume's AI-powered website builder and its application in sitemaps and wireframes to speed up design processes. I worked with Relume's Component Library, using prebuilt sections to create structured web pages efficiently. Additionally, I explored AI features for generating sitemap structures tailored to different website types, which streamlined the planning and development process. I also tested Relume's collaborative features, allowing team members to review and adjust frames in real-time, which facilitated feedback and sped up the revision process.

WEEK FOUR REPORT

This week, I learned about high-fidelity prototypes, which represent the final detailed design of a website, including realistic colors, fonts, images, and interactions. I began working on high-fidelity front-end designs to create a visually realistic representation of the website. Additionally, I integrated interactive elements such as hover effects and animations to enhance the prototype's functionality and make it closely resemble the actual user experience. I conducted usability testing, gathering feedback on navigation, visual identity, and necessary improvements. Lastly, I refined the high-fidelity prototype based on feedback, adjusting design elements and functionality to align more closely with user expectations and project requirements.

WEEK FIVE REPORT

This week, I learned about color schemes and their impact on website design, particularly the 60-30-10 principle, which balances primary, secondary, and accent colors for an appealing visual experience. I explored different websites to understand color applications and user engagement. Additionally, I applied this knowledge to UI/UX design, enhancing user experience by strategically using primary colors for major elements and secondary colors for emphasis. I worked on website layout design, arranging elements like menus and navigation for seamless usability. Lastly, I reviewed low-fidelity sketches to assess the effectiveness of user interface elements before finalizing the design.

WEEK SIX REPORT

This week, I learned about the client-server model, where client devices request website data from a server, which then responds by sending the necessary content for display. I also studied the role of branding in website design, focusing on how effective branding shapes visitor perception and trust. Additionally, I explored strategies for identifying a target audience by analyzing demographics such as age, gender, and location. I conducted competitor analysis using research tools to gather insights into audience preferences. Finally, I worked on creating a site map, which serves as a blueprint for organizing content to enhance navigation and user experience.

Week 7: System Ports, BIOS, and CMOS Settings
Studied system ports, BIOS functions, and troubleshooting tools

like Windows Event Viewer. Gained knowledge of updating drivers and CMOS settings.

WEEK TEN REPORT

This week focused on color theory. On Monday, I learned that color is a phenomenon of light described in hue, brightness, and saturation. Tuesday covered how light sources affect color perception. Wednesday introduced the three types of colors: primary, secondary, and tertiary. On Thursday, I studied primary colors (red, yellow, blue), which form the base for all other colors. Friday focused on secondary colors (orange, green, violet), created by mixing two primary colors. This knowledge is essential in design, art, and technology applications.

WEEK ELEVEN REPORT

This week continued the study of color theory. On Monday, I learned that secondary colors are formed by mixing two primary colors. Tuesday covered the three secondary colors: green (yellow + blue), orange (red + yellow), and purple (red + blue). Wednesday introduced tertiary colors, created by mixing a primary color with a secondary color, such as red-orange or yellow-green. On Thursday, I studied compound colors, which include complex combinations like blue-green and red-violet. Friday focused on the six tertiary colors, formed by blending primary and secondary colors, with different names used interchangeably.

SIWES TWELVE REPORT

This week focused on branding and customer recognition. On Monday, I learned that branding helps create a distinct identity for a business to attract its target audience. Tuesday covered how a brand is built through design, packaging, and advertising elements that make it unique. Wednesday involved practical exercises where we analyzed our shopping habits, such as why we choose certain toothpaste brands or smartphones based on branding. Thursday emphasized the importance of having a recognizable and consistent brand identity to stand out in the market. On Friday, we studied customer recognition, understanding how consumers identify brands through logos, colors, and slogans, influencing their product choices.

SIWES THIRTEEN REPORT

This week, I focused on branding and website design. On Monday, I learned that branding plays a key role in web design, making a website visually appealing and professional. Tuesday covered various branding methods to enhance online presence. Wednesday involved studying different font styles and colors to improve user experience. Thursday emphasized the importance of understanding the audience to choose the right design approach. On Friday, I conducted a competitor analysis, examining other brands to see how they attract and engage customers effectively.

SIWES FORTEEN REPORT

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website visually appealing and professional. Tuesday covered various branding methods to enhance online presence. Wednesday involved studying different font styles and colors to improve user experience. Thursday emphasized the importance of understanding the audience to choose the right design approach. On Friday, I conducted a competitor analysis, examining other brands to see how they attract and engage customers effectively.

SIWES FIVTEEN REPORT

This week, I focused on server management and client-server communication. On Monday, I learned about local servers and how they function in networking. Tuesday involved understanding client-server architecture and its importance in web hosting. On Wednesday, I practiced installing and managing a server, ensuring a smooth connection between clients and the server. Thursday focused on securing a server to protect against threats. Finally, on Friday, I worked on file management, ensuring smooth data transfer and accessibility through a web browser.

SIWES SEVENTEEN REPORT

This week, I focused on understanding content management systems (CMS) such as WordPress and how they are used to manage and design websites. I learned about website building, including themes, plugins, and customization. Additionally, I explored domain names, their registration process, and the importance of choosing the right domain for websites. I also gained insight into database management, particularly how databases are used to store website content securely. The week provided valuable

knowledge on web hosting, e-commerce site management, and the role of databases in dynamic websites.

Overall, this experience enhanced my understanding of website development, domain management, and database storage, which are essential for running and maintaining professional websites.

SIWES EIGHTEEN REPORT

This week, I focused on web hosting and content management system (CMS) setup. I learned about FTP (File Transfer Protocol) and how it is used to transfer files to a server using software like FileZilla. I also explored the process of downloading and setting up WordPress from the official site, including understanding the latest updates and features.

Additionally, I set up web hosting environments and configured domain names for WordPress installations. I practiced uploading WordPress files to a web server using an FTP client, ensuring a smooth installation process. By the end of the week, I had a practical understanding of website deployment, domain configuration, and file management for WordPress sites.

Overall, this week improved my technical skills in web hosting, server management, and WordPress installation, essential for website development and management.

SIWES NINTEEN REPORT

This week, I focused on WordPress website management and customization. I started by learning how to set up an administrator account in WordPress and configure basic settings. I explored

different themes and plugins, understanding how to install and customize them to enhance website functionality.

I also learned how to create and manage user accounts, assign roles, and set permissions to control access within a website. Additionally, I uploaded site content and media through the WordPress dashboard, ensuring proper organization and presentation. By the end of the week, I reviewed key processes, including site backups and security measures, to maintain website stability and performance.

Overall, this week strengthened my skills in WordPress administration, user management, and website customization, essential for building and maintaining professional websites.

SIWES TWENTY REPORT

This week, I focused on improving my WordPress website development and SEO optimization skills. I started by learning how to install and customize WordPress themes, modifying the code and layout to improve the site's appearance. I also explored essential plugins, such as Elementor for design customization, SEO optimization tools, and contact form integration.

Additionally, I configured site settings, including permalinks for better URL structure and SEO benefits. I practiced adding new pages and content, ensuring proper layout and formatting. By the end of the week, I reviewed best practices for content creation and site management to enhance user experience and search engine visibility.

Overall, this week enhanced my understanding of WordPress customization, SEO strategies, and website content structuring, equipping me with valuable skills for professional web development.

CHAPTER FOUR

4.1 CONCLUSION

In conclusion, student industrial work experience scheme program (SIWES) has given the opportunity to have at least some knowledge about my course of study and program has provided me an abridgement of gap.

4.2 PERSONAL IMPERSSION ABOUT THE ORGANIZATION

Though the organization is a growing firm, yet it is of standard. It is standard enough to impact great and immeasurable knowledge to students who have chosen computer science as a field of study.

4.1 RECOMMENDATION

I hereby recommend that the school management should promote properorientation on the program for the student who lacks it for high rate of student un-involvement.

I will be glad if the programmer student industrial training experience scheme (SIWES) period is extended more than four months, so that the student might have enough time to learn practical aspect of what have learnt in their various institutions.