

# Student's Weekly Progress Report

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**Course:** Bachelor of Science in Computer Science

Report Date	Date Submitted	Task Completed	Task in Progress	Next Week's Task	Problems / Challenges	Field Supervisor Comments
23-05-2025	05-06-2025	Getting to know all the details like background about Kawempe National Referral Hospital	none	none	no challenges faced	This whole we we shall be doing a site orientation.
30-05-2025	14-07-2025	none	Am trying to understand the background and operational framework of Kawempe National Referral Hospital. This involved gaining insight into the hospital's history, its various departments,	cabling training	none	The student is still learning to fit in a new environment being his first time to be in such a working area.

06-06-2025	13-06-2025	<p>I dedicated time to understanding the background and operational framework of Kawempe National Referral Hospital. This involved gaining insight into the hospital's history, its various departments, and the scope of services offered. Acquiring this foundational knowledge was essential in breaking down the technical tasks at hand, especially those related to network infrastructure improvements.</p>	<p>We're conducting training on identifying faulty Ethernet cables, terminating and connecting them within the hospital's network infrastructure. The objective is to equip staff with hands-on skills to test and troubleshoot cables, apply proper termination techniques, and ensure secure connections. This outlines the progress, challenges, and next steps in this ongoing task, aiming to enhance the hospital's network reliability and efficiency.</p>	<p>Our next task involves configuring switches for optimal network performance and identifying faulty switches that may be affecting connectivity, with the goal of improving network reliability and efficiency.</p>	<p>we have faced a few challenges. One of the main issues is the limited availability of specialized cable testing tools, which has somewhat slowed down the troubleshooting process. Additionally, some of the network points are situated in hard-to-reach areas like walls, up the ceiling, making the task of cable termination and connection more cumbersome. Despite these obstacles, we are planning to overcome them through better resource allocation and by adopting a more structured approach to accessing difficult network points.</p>	<p>The student was equipped with knowledge on troubleshooting LAN and wifi components. Also tracking and resolving any data losses due to physical cable damages and faulty networking equipment.</p>
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13-06-2025	13-06-2025	<p>We successfully ran Ethernet cables to several offices in the admin that had previously failed to access the internet. The newly installed cables were connected directly from the network switches to the respective office, ensuring that those departments now have stable and reliable internet connectivity. Additionally, we worked on configuring port 41 on one of the switches located in the server room, which had been failing to supply power and data to the VoIP phones on Level 4 of the hospital.</p>	<p>We are currently configuring the Power over Ethernet (PoE) switches within the hospital's network. These switches are used for supplying both power and data to the VoIP phones distributed throughout various hospital departments. We want to ensure that all VoIP phones operate efficiently through a single Ethernet connection that provides both power and data,</p>	<p>my field supervisor, Mr. Boaz Twinamasiko, has assigned me to review and modify the hospital's website. This task will involve going through the website's codebase to identify and remove any redundant code, as well as implementing updates in line with the supervisor's preferences to enhance the site's functionality and user experience</p>	<p>Some of the challenges faced was inconsistent power and data supply from specific switch ports, which delayed the restoration of VoIP functionality on Level 4. Moreover, running Ethernet cables through certain sections of the hospital was challenging due to structural limitations</p>	<p>Deep learning on the H3C switch that supports VOIP network e.g. the Hospital's Intercom system and introduction to edit the new website.</p>
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20-06-2025	27-06-2025	<p>I successfully submitted a detailed proposal for reconstructing the hospital's website to the board and all supervising authorities. The proposal was well received and accepted. As part of this process, I designed and presented a website flowchart that outlined the planned structure and navigation of the new site, helping stakeholders understand the envisioned improvements and user experience.</p>	<p>I am currently engaged in the production and development phase of the hospital website, focusing on implementing core features and functionality as outlined in the proposal. Alongside this, I continue to support the hospital with various networking-related tasks and computer support services, including assisting doctors and nurses to familiarize themselves with new systems and workflows. I am also involved in data entry tasks to help digitize patient and administrative information.</p>	<p>The plan for the next week includes focusing on comprehensive testing of the website, ensuring all features work as intended and are user-friendly. I will also ask my supervisor to prepare a meeting a demo presentation of the website to the board to gather feedback and approvals. Following successful testing and approval, the next step will be deploying and hosting the website to make it accessible to hospital staff and patients.</p>	<p>Challenges that I faced during the lookthrough of the website was that I wasn't familiar with the language and I had to take time to know how to modify it and yet it was needed urgently. So according to my opinion to them was to give me ample time to learn the language and also know how to modify it accordingly. Another challenge was during the interaction I found some unfunctional parts within the website so I opted to change the whole website and give it the perfect functionalities that are required and could build the hospital.</p>	<p>The student upon review of the existing facility website, underscored the idea of editing the site instead guided to better develop a new website that is easy to maintain and improve and that meets the current designs.</p>
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27-06-2025	10-07-2025	I successfully completed the development of the new website for Kawempe National Referral Hospital. The website is fully built and is now pending publication to the hospital's domain, a process that is currently being handled by NITA(National Information Technology Authority).	I am providing general IT support services across the hospital, with a focus on hardware installations, configurations, and maintenance within various sectors, wards, and departments. I am also assisting hospital staff, particularly doctors and nurses, in data entry tasks and system usage, ensuring that they can efficiently input and manage patient and administrative records.	I will be working alongside my field supervisor, Mr. Boaz Twinamasiko, to map and assign functions or connections on the hospital's server. This exercise is intended to streamline server operations and ensure that all network services and systems are properly mapped for efficient performance and management.	the challenge faced during the week has been the delay in publishing the hospital website, as the process is dependent on NITA's domain hosting and approval timelines, which are beyond our immediate control.	Ronnie developed a hospital Website and is pending for review to determine where to replace it with the previous domain.
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04-07-2025	10-07-2025	<p>During this week, together with Mr.Boaz and Mr. Frank,the IT officer from the Ministry of Health, we successfully carried out port mapping activities on the hospital's server infrastructure. Specifically, we mapped port 80 to the web server, enabling access to the hospital's website through the standard HTTP protocol. Additionally, we configured and created an FTP (File Transfer Protocol) link to facilitate secure file transfers between systems.</p>	<p>We are currently continuing work on service mapping across the server infrastructure. This involves designing strategies to map and connect different servers from various hospitals, such as Kiruddu National Referral Hospital, onto a centralized single server platform. The task is still ongoing as we work to develop an efficient and secure mapping framework.</p>	<p>For the next week, our focus will be on setting up uplinks, specifically connecting access-level networks to higher-level core devices within the hospital network infrastructure. This will improve network scalability, ensure better data flow across departments, and support the broader integration efforts of various hospital systems.</p>	<p>one of the problems we faced was ensuring compatibility between different server configurations from various hospitals, particularly when attempting to centralize services. Each hospital has its own server setup and service architecture, which makes harmonizing these systems complex and time-consuming.</p>	<p>Participated in setting up a data mining tool for the hospital Medical records system. <a href="https://172.16.16.17">https://172.16.16.17</a></p>
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11-07-2025	14-07-2025	<p>I worked alongside my supervisor and the IT team to successfully set up uplinks within the hospital's network infrastructure. This involved connecting access-level networks to higher-level core devices, improving the overall data flow and communication between departments. The successful setup of these uplinks has strengthened the hospital's network backbone, ensuring more efficient and stable connections for various critical systems across the hospital.</p>	<p>we are in the process of deploying the newly introduced HMIS report system within the hospital. This system is designed to streamline and standardize the submission of hospital reports, enabling better data management and reporting accuracy. My role involves supporting the deployment process, which includes system installation, user onboarding, and ensuring that hospital doctors are trained on how to use the HMIS reporting tool effectively.</p>	<p>main focus will be to train the hospital doctors on how to effectively use the newly deployed HMIS report system. The training will cover system navigation, data entry procedures, report generation, and best practices for utilizing the system efficiently in their daily activities.</p>	<p>One of the challenges encountered during the deployment of the HMIS report system is ensuring full user adoption, as some hospital staff are still unfamiliar with the new system and may require additional training and support.</p>	<p>The students' approach towards practical implementation of networks was good, reflecting an understanding of basic networking.</p>
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18-07-2025	28-07-2025	<p>We successfully deployed the HMIS (Health Management Information System) Report Tracking System on the hospital server. The deployment was tested and confirmed to be working, making it ready for user interaction and real-time reporting.</p>	<p>We are currently training the medical team of the hospital on how to use the Report system and how it will be working, how it is connected to the EAFYA system and explaining the importance of the system on how it will be able to track all the reports of the patients that have been worked upon.</p>	<p>We shall continue training the medical team, especially targeting those who may not have attended this week's sessions</p>	<p>While testing the system, we encountered an issue in the Labour Suite report data. The system indicated that no deliveries had ever been recorded since the department started operations. However, upon inquiry, the doctors confirmed that deliveries had indeed taken place. After a detailed review, we discovered that the issue was due to incomplete data entry by the medical team. Key fields in the delivery reports were often left blank, which caused the system to omit them from the final report. Once this was identified, we guided the team on how to correctly fill in all required fields, and the data began displaying as expected.</p>	<p>This data mining tool is currently active and work is in progress to activate all other units to enable reporting of hospital data at various levels.</p>
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25-07-2025	28-07-2025	<p>This week, we successfully completed the training sessions on the HMIS Report Tracking System. The medical staff was taken through all major functionalities of the system, and they are now able to generate, view, and interpret patient service reports with confidence.</p>	<p>We have now moved into the next phase, which involves data entry for biometric registration. This process ensures that all hospital staff are accurately captured in the system for easy identification and access to services.</p>	<p>Continue and finalize biometric data entry Begin testing of the biometric system for system access and attendance tracking Support the medical team with any issues during system rollout</p>	<p>During the biometric data entry process, we encountered issues with the HRIS (Human Resource Information System). A lot of the existing data was either incomplete or incorrect, which would have made the biometric system unreliable. To make this work, we worked on verifying and correcting the HRIS data, so that all staff records are accurate and up to date. This step was important to ensure that the biometric system functions properly and that each staff member is uniquely identified within the system.</p>	<p>Trained and participated in deep training on the data mining tool among other details involved in its deployment</p>
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