Monthly Internship Report

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Mentor's name: Nebyu Yonas

School: Electrical and Computer Engineering

To be filled out by the School:

Submission date: _____

Accepted by mentor: _____
(Date, full name and signature)

Comments:

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Abstract: Internship Journey Overview

During the first week of our internship at the Ministry of Innovation and Technology, starting on October 2, 2023, our student group focused on proposing an innovative project idea to the IT department. After careful review by our supervisor, Mrs. Ayana, we were assigned the task of developing a specialized inventory management system for the Ministry's stores. The subsequent days involved detailed analysis, creating a timetable, and presenting progress reports. As the week concluded, we transitioned to the operational phase, dividing tasks and immersing ourselves in the design phase, aligning with the Ministry's overarching goals.

In the second week, our primary focus was refining the user interface (UI). We crafted Figma designs and extended efforts to cater to diverse user roles. Thursday marked a significant milestone as we presented our design rationale to the IT department, incorporating feedback into our designs. This meticulous preparation set the stage for transitioning into the development phase within the Ministry's internship program.

Moving to the third week, our focus shifted to translating Figma designs into functional code using the React framework. We successfully implemented code for various pages and delivered a comprehensive presentation on Thursday, fostering collaboration and enriching our understanding. Friday involved refinement based on valuable feedback from the IT department, setting the stage for ongoing progress.

In the fourth week, our dedicated focus was on advancing the project's backend, achieving significant milestones in database architecture and API development. The week concluded with reflective code customizations and strategic planning for continued progress within the Ministry's internship program. This abstract provides a comprehensive overview of our evolving journey and achievements during the four weeks of our internship.

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Week No: 1   Dates: October 02   to   October 06, 2023

Weekday	Activities
Monday	My group mates and I were tasked with proposing a project idea. On this day, we presented our innovative suggestions to the IT department staff at the organization. Following a thorough review of our proposals, our supervisor, Mrs. Ayana, assigned us the significant task of developing an inventory management system specifically tailored for the organization's stores. The remainder of the day was dedicated to collecting requirements directly from the head of the store department, ensuring a nuanced understanding of their operational needs. Additionally, we invested time in studying the organization's overarching structure to integrate our project seamlessly.
Tuesday	With the groundwork laid on Monday, Tuesday unfolded as a day devoted to the analytical aspect of our project. We delved into a detailed analysis of the requirements gathered, with a keen focus on identifying achievable goals and feasible solutions within the scope of the inventory management system project. To enhance our project's compatibility with the organization's internal IT infrastructure, we engaged in a constructive dialogue with our supervisor, gaining insights that would inform our project's alignment with existing systems.
Wednesday	In the middle of the week, we made a concentrated effort to establish the groundwork for the project's Software Requirements Specification (SRS). Our attention on Wednesday was specifically dedicated to crafting a comprehensive SRS that considered every possible scenario. This meticulously prepared SRS, built on individual project components, served as a dynamic roadmap for the upcoming weeks. Simultaneously, we worked on preparing the timetable for our project, outlining key milestones and deadlines to ensure a strategic and structured approach to the multifaceted project.
Thursday	On Thursdays, we engaged in a collaborative session, presenting a thorough weekly report to Mrs. Ayana, our supervisor at the organization. This comprehensive report not only highlighted our achievements and progress but also delved into the challenges we encountered along the way. Serving as a vital checkpoint, the report ensured our alignment with the project goals. Mrs. Ayana's feedback, along with insights from other organizational members, provided valuable perspectives that enriched our understanding and played a significant role in shaping the ongoing development of the project.
Friday	On the final workday of the week, we initiated our operational phase by strategically dividing tasks among group members for the upcoming week. Armed with a well-defined plan, we immersed ourselves in the design phase using Figma, a

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	crucial step that laid the groundwork for subsequent project stages. This hands-on approach allowed us to visualize and iterate on the project's design, ensuring a strong foundation for the evolving phases of development.

Week No: 2   Dates: October 09   to   October 13, 2023

Weekday	Activities
Monday	At the outset of the week, our focus on Monday was directed towards crafting the Figma designs for the landing page, login pages, and a common dashboard tailored for user interaction with the UI.
Tuesday	Continuing our design endeavors, Tuesday saw the creation of Figma designs for pages specifically intended for administrators, as well as those designated for the head of the store and the employee manager.
Wednesday	Midweek was dedicated to expanding our Figma design. On Wednesday, we meticulously created designs for pages catering to the needs of users or employees, as well as those tailored specifically for the storekeeper.
Thursday	Thursday marked a significant milestone as we prepared a comprehensive presentation for the IT department staff, including our supervisor. The presentation encompassed our design rationale and project progress. Following our presentation, the IT department staff provided invaluable recommendations and constructive feedback.
Friday	On the concluding workday of the week, we actively incorporated the suggestions provided by the IT department staff into our designs. The day also involved modifications to enhance the user interface based on the feedback received. Additionally, we laid the groundwork for the upcoming week by preparing a detailed task division plan. With these preparations in place, we initiated the development phase of the user interface, setting the stage for the next steps in our project.

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Week No: 3   Dates: October 16   to   October 20, 2023

Weekday	Activities
Monday	At the start of the week, our focus was on translating the Figma designs into functional code. Using the React framework, we successfully implemented the code for the landing page, login pages, and a common dashboard. The day proved to be productive as we brought these pages to life through seamless code implementation.
Tuesday	Building on our momentum from Monday, we continued our React code implementation efforts. Tuesday was dedicated to creating the necessary code for pages specifically tailored for administrators, as well as those designed for the head of the store and the employee manager.
Wednesday	Midweek brought further progress as we extended our React code implementation to cover pages catering to users or employees and those exclusively tailored for the storekeeper. Our focus remained on ensuring a seamless and responsive user experience across these diverse interfaces.
Thursday	Thursday marked a pivotal moment as we prepared and delivered a presentation to the organization's staff members. As is customary on Thursdays, we actively sought and collected feedback, fostering an environment of continuous improvement and collaboration.
Friday	Wrapping up the week, Friday was dedicated to refining our work based on valuable feedback received from the IT department staff. We diligently incorporated modifications, ensuring that our implementation aligned with the organization's requirements. Additionally, we conscientiously set the plan for the upcoming week, laying the foundation for continued progress in our project.

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Week No: 4   Dates: October 23   to   October 27, 2023

Weekday	Activities
Monday	The week commenced with our focus on the project's backend. We delved into crafting the database architecture and commenced the development of APIs to facilitate user registration and login functionalities. By the end of the day, we successfully implemented role-based access, achieving seamless registration and login processes.
Tuesday	Building upon the backend work initiated on Monday, Tuesday saw us concentrating on developing APIs to retrieve user information from the database. Our efforts were dedicated to ensuring a smooth flow of data between the backend and the frontend for efficient information display.
Wednesday	Midweek brought further progress as we shifted our attention to developing APIs for fetching item information from the database. Our goal was to establish a robust system that seamlessly retrieved and displayed item details on the frontend, contributing to the overall functionality of our project.
Thursday	Consistent with our weekly routine, Thursday involved presenting our ongoing work to the IT staff within the organization. This regular interaction allowed us to gather valuable feedback and suggestions, fostering a collaborative environment to refine and enhance our project.
Friday	As the week drew to a close, Friday served as a reflective day. We conducted a comprehensive review of our progress thus far, identifying areas for improvement. This reflection prompted us to make customizations to our code, optimizing its efficiency. Additionally, we strategically set plans for the upcoming week, aligning our objectives with the evolving needs of the project for the next month.