



Individual Reflection

Bongalos, Blessie Faith - Project Lead Developer

Developing EduROOM as the lead developer was a challenging but very rewarding experience for me. This project felt different from my previous ones because, for the first time, I was able to focus deeply on the backend logic and the end-to-end functionality of the system, instead of trying to do everything at once.

Having Tischia handle the frontend UI and design allowed me to concentrate on building a solid foundation for the application. I spent most of my time polishing the authentication flow, role-based access control, reservation logic, real-time updates, and security features such as session management, login lockout, and activity logging. This division of responsibilities made the development process more efficient and helped improve the overall quality of the system. One of the most valuable lessons I learned was how important clear role delegation and collaboration are in software development. By trusting a teammate to handle the frontend, I was able to think more critically about data flow, system security, performance, and edge cases. It also gave me a better appreciation of how frontend and backend components must work together seamlessly to deliver a good user experience.

There were moments when debugging complex logic, especially in real-time WebSocket updates and session handling, became challenging. However, these challenges pushed me to better understand system design, error handling, and defensive programming. Seeing the system work end-to-end—from login, to reservation, to real-time admin updates and analytics—was very fulfilling. Overall, EduROOM helped me grow not only as a programmer but also as a team leader. It reinforced the importance of planning, communication, and focusing on strengths within a team. This experience gave me confidence in handling larger systems and preparing for real-world software development environments where collaboration and specialization are essential.

Doroin, Ivy - Documentation Manager

Working on this project helped me understand how important clear and well-structured documentation is in building an application because it helps both users and developers understand how the application works.

One of the challenges I faced was analyzing the code and creating a diagram from it. At first, it was overwhelming, especially when I had to understand how each part of the code was connected. I am truly grateful to my groupmates because they guided me, explained the parts I found confusing, and helped me overcome the difficulties I encountered. Their support made it



easier for me to learn and understand the technical processes.

Overall, working on this project with my groupmates gave me many experiences and knowledge that I will always cherish. This project not only strengthened my technical abilities but also developed my skills in handling tasks that initially seemed challenging.

Israel, Renna - Documentation Manager

During the process of development of EduRoom Classroom Reservation System, the major role that I took was to prepare and organize the project documentation. Though I did not directly engage in the actual programming work, I was very instrumental in making sure that every section of the system has been well defined, organized and made to conform with the specifications of the project. My work on the documentation enabled me to read through each of the system modules closely, including the authentication and reservation processes as well as such features of the system as the session management and security. Among the problems that I have faced was how to translate technical ideas into simple and short explanations, which require a reader to grasp the information easily, especially the non-technical reader. The experience extremely enhanced my skill in analysis, summarization, and systematic presentation of information. I also got another lesson on the importance of documentation in the system maintenance directions, user onboarding, and the future developments. Throughout the working process with the developers, I enhanced my communication prowess and formed a better idea of the interaction of the various elements of the web application. Overall, this project has improved my writing, organisation and teamwork skills and made me understand the role of the correct and effective documentation in the success of any system.

Olivares, Tischia Ann - UI/UX & Lead Frontend Developer

I became used to working alone or mostly solo on projects, and this project with TechValks in developing EduROOM is now a core memory for me. This classroom reservation system project was an idea I had in my first year, and although I created a simple version of it back then, it wasn't what I envisioned and lacked features. Being able to rebuild it now with Blessie, Renna, and Ivy as teammates all working together, brought that vision to life and even exceeded it.

Although the concept seemed simple at first, we faced bugs, errors, and debugging sessions I couldn't even count. Implementing emerging technology and security features were especially challenging but the contributions each of us brought to the project was what made everything possible. I'm also grateful for the guidance of Mr. Ibo and Ms. Pandes, and for all the learnings we got from them.



Republic of the Philippines
CAMARINES SUR POLYTECHNIC COLLEGES
Nabua, Camarines Sur



COLLEGE *of* COMPUTER STUDIES

We pulled all-nighters together, supported each other, and strengthened our friendship too throughout the process. Finishing this project truly leaves my heart fulfilled.