

Title : Database Management for the Student Dormitory Reservation System

Author(s) : 1. Mr. Sirawit Mano Student ID : 640510685

Major : Computer Science

Advisor(s) : 1. Dr. Sutasinee Thovuttikul

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ABSTRACT

The Information Technology Development Unit of the Faculty of Nursing at Chiang Mai University has been assigned to develop a dormitory reservation system for students, along with an admin system that includes a database for managing student information, room assignments, and public relations news management. Currently, there is no online reservation system and students must fill out forms to reserve dormitories manually.

As a result, I have been assigned to develop a database and admin system for dormitory reservations to help manage students who wish to reserve dormitories, handle room assignments, and manage news announcements. The system allows dormitory administrators to log in through the university's OAuth authentication. The technologies used to develop the system include Node.js, Next.js, TypeScript, SQL Server, Prisma, and Tailwind, ensuring that the system can be developed further and scaled in the future.

The outcome of this system development is improved efficiency in managing students, dormitory rooms, and news updates. It helps reduce the workload of dormitory administrators, speeds up processes, minimizes errors from manual paperwork, and enhances overall operational efficiency.

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