

Title : Dormitory Reservation System for Students in the Faculty of Nursing

Author(s) : Mr. Sirawit Kitisri

Student ID : 640510684

Major : Computer Science

Advisor(s) : Assistant Professor Dr. Kornprom Pikulkaew

Type of presentation* (choose 1) : Oral Presentation (เฉพาะ ตัวแทนศ.ที่สาขาเลือกให้นำเสนอแบบบรรยาย)
 Poster (กรณี นำเสนอผลงานปัญหาพิเศษ/การค้นคว้าอิสระ)
 Cooperative Education (กรณี นำเสนอผลงานสหกิจศึกษา)

ABSTRACT

The Information Technology Development Unit of the Faculty of Nursing, Chiang Mai University, has been tasked with developing a dormitory reservation system for students. However, because there is currently no system that supports online dormitory reservations, the process still relies on paper or Google Forms. This reliance on manual processes creates difficulties in managing large volumes of documents and leads to unorganized data storage. Additionally, there is no centralized platform for posting important dormitory information such as applications, dormitory regulations, and other essential details for students.

To address these challenges, an online dormitory reservation system has been developed to efficiently manage data and streamline the reservation process. The system supports room reservations, cancellations, and the management of resident information. It also includes features for notifications and posting dormitory-related news. Students can access the system via a website that utilizes the university's OAuth authentication system. Once authenticated, they can provide additional information and proceed with room reservations immediately. The technologies used in developing this system include Node.js, Next.js, TypeScript, SQL Server, Prisma, and Tailwind, ensuring both flexibility and potential for future development.

The result is a more efficient and stable dormitory reservation system that meets the needs of both students and staff, reduces workload, and significantly improves the overall efficiency of dormitory management.

*Type of presentation must be matched with an option you choosing on student upload system.

**The abstract can be more than one page and must be approved by project advisor before upload.