



User Interface and User Experience Design for Peer of Chiang Mai University's Nursing Dormitory



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ABSTRACT

Currently, the Nursing Dormitory at Chiang Mai University records information on paper and uses Facebook for announcements and communication. This approach creates several limitations, including complex administrative tasks, risks of document loss, delays in information retrieval and storage, and ineffective communication, which reduce overall management efficiency. Therefore, this project designs a new dormitory management system for website use, including interfaces for residents and dormitory staff. Figma was used to develop the UI/UX, covering key functions such as room reservations for all resident types, a user-friendly utility payment process, and modules for room, payment, and content management. The proposed system reduces redundant workload, minimizes errors and document loss, accelerates dormitory and payment operations, and improves convenience for accessing reservations and announcements, thereby significantly enhancing management efficiency.

INTRODUCTION

Currently, data management within the peer dormitory organization under the supervision of the Faculty of Nursing at Chiang Mai University is transitioning from paper-based documentation to computer-based information systems. This transition aims to enhance operational efficiency, reduce process redundancy, and minimize errors that may arise from traditional data management methods. Accordingly, this project aims to investigate and design the user interface (UI) and user experience (UX) of a Peer of Chiang Mai University's Nursing Dormitory, with an emphasis on developing the usability of the system that achieves user requirements and supports more effective dormitory administration.

DESIGN PROCESS



User Requirement

- User Interview
- Analysis & Classification
- Documentation



Wireframe

- Create Wireframe
- Create Prototype
- Feedback & Modification



UX/UI Design

- Design System
- UI Component
- High-Fidelity Design



Usability Testing

- Testing based on the defined test cases
- Test with staff and Resident

DESIGN

Problem

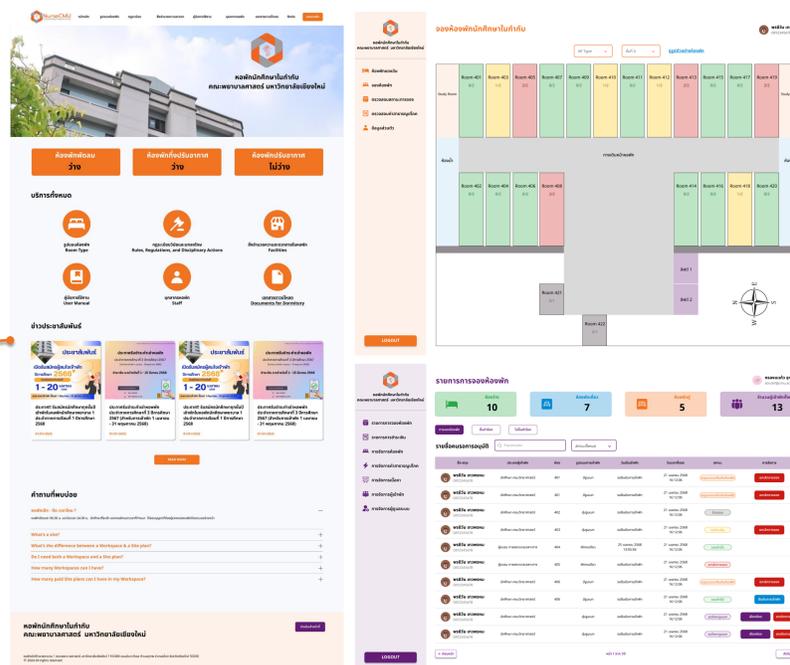
Paper-based system, Operational complexity, Document misplacement, Slow information access, Ineffective communication

Solution

UX/UI-based dormitory management system

Website Features

- Room Information
- Rule
- Facilities Information
- User Manual
- Staff Information
- Contact
- Announcements
- FAQ



Resident Features

- Room Reservation
- Reservation Status Tracking
- Utility Charges
- Edit Profile

Administrator Features

- Reservations Management
- Payment Management
- Room Management
- Utility Management
- Content Management
- Resident Management
- Administrator Management

Outcome

Reduces workload, Decreases error, Faster process, More convenience

TECHNOLOGY

Figma



Notion



CONCLUSION

The design of the user interface (UI) and user experience (UX) considers the clarity of the operational process and consistency with user requirements. The test results showed that users were able to perform tasks correctly and understand the sequence of use without confusion. This indicates that the system is usable, comprehensively covers the dormitory's core processes, and clearly improves management efficiency.