**UI FACILITIES RESERVATION**

A Capstone Project

Presented to the Faculty of the

College of Information Technology Education PHINMA University of Iloilo

In Partial Fulfillment

of the Requirements for the degree Bachelor of Science in Information Technology

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This is to certify that the authors are responsible for the work submitted in this capstone. The intellectual content of this capstone is a product of original work. Any assistance that the authors received in the preparation and work of the capstone itself has been acknowledged. In addition, the authors certify that the materials and literatures taken from other sources are properly quoted.

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**ABSTRACT**

UI Facilities Reservation System Capstone Project

The UI Facilities Reservation System Capstone Project aims to develop a comprehensive and efficient solution for managing the reservation of various facilities within an organization or institution. In today's fast-paced environment, it is essential to streamline the process of booking facilities such as meeting rooms, auditoriums, sports courts, and other amenities to maximize their utilization and ensure optimal resource allocation.

This project will address the challenges associated with manual booking systems, including double bookings, scheduling conflicts, and inefficient communication channels. By leveraging modern technologies and best practices in software development, the Facility Reservation System will provide users with a user-friendly interface to browse available facilities, check availability in real-time, and make reservations seamlessly.

Key features of the Facility Reservation System will include:

- User authentication and authorization to ensure security and access control.

- Intuitive interface for browsing and selecting available facilities based on criteria such as location, capacity, and amenities.

- Real-time availability updates to prevent conflicts and ensure accurate scheduling.

- Notification system to alert users of reservation confirmations, cancellations, and reminders.

- Administrative dashboard for managing facility listings, user accounts, and reservation requests.

- Integration with calendar applications for easy synchronization of reservations with personal schedules.

The development process will follow industry-standard methodologies, including requirements gathering, design, implementation, testing, and deployment. Agile principles will be employed to facilitate iterative development and incorporate feedback from stakeholders throughout the project lifecycle.

Upon completion, the Facility Reservation System will enhance the efficiency and effectiveness of facility management processes, ultimately improving productivity, collaboration, and resource utilization within the organization.

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