

Title: OS18-7 U-Reserve: Development of a Facility Reservation System for UCSI University

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Abstract: In today's technology-driven era, there is an increasing emphasis on efficient and user-friendly methods to elevate user satisfaction. UCSI University, Kuala Lumpur, currently relies on a manual facility reservation process, necessitating either in-person or email submissions. This outdated approach frequently leads to double bookings and underutilization of resources. Thus, this project endeavours to create a web-based facility reservation system called U-Reserve, employing the prototype methodology. U-Reserve was crafted using HTML, CSS, JavaScript, and core Java (JSP and Servlet), while its database is administered through phpMyAdmin. Additionally, U-Reserve places emphasis on incorporating preferred colour tones and font types of the target users, aiming to enhance user experience and satisfaction. Through U-Reserve, the reservation request and cancellation processes are streamlined, and a datadriven dashboard facilitates informed decision-making regarding facility management.

Keywords: facility reservation system, web-based system, colour tone, design principle, data-driven decision-making, user permission management

<https://alife-robotics.co.jp/members2024/icarob/data/html/data/OS/OS18-7.pdf>