UNIVERSITI TEKNOLOGI MARA

ROOM BOOKING SYSTEM FOR SK PERWIRA TELUK INTAN

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ABSTRACT

The Sekolah Kebangsaan Perwira Room Booking System (SKPRBS) is a web-based system designed to streamline and improve the management of room bookings. During the early development phase, several issues were identified, including double bookings, scheduling conflicts, and the lack of proper records of room usage. To address these problems, the Sekolah Kebangsaan Perwira Room Booking System (SKPRBS) was developed with three main objectives: to identify existing problems in the current booking process, to design and develop an efficient booking system, and to evaluate the functionality and usability of the system. The development followed the Adapted Waterfall Model, which includes six stages: planning, analysis, design, implementation, testing, and documentation. This model was chosen for its structured approach, which supports revisions at each stage if necessary. The system was guided by Usability Theory, with a focus on Nielsen's Heuristics, which served as a framework to ensure the system is efficient and easy to navigate. System testing was conducted using a structured test plan involving three user roles: teacher, office staff, and ICT teacher. Additionally, expert evaluations were carried out to assess usability based on five key components: learnability, memorability, efficiency, error handling, and satisfaction. The findings showed that all system functions performed as intended, and expert feedback confirmed that the system adhered to essential usability principles. In conclusion, SKPRBS offers a more organized, accurate, and efficient method for managing room bookings in the school.

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