

ABSTRACT

Design and Development of a Web-Based Booking Order Application for MIK & MAX Badminton Using the RAD Method

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The badminton court reservation system was previously conducted manually, causing issues such as schedule conflicts, unstructured record keeping, and limited access to information. To overcome these challenges, this study designed a web-based booking application using the Rapid Application Development (RAD) method. RAD was chosen for its ability to develop systems quickly and iteratively with active user involvement. The application includes features such as user registration, court reservation, payment proof upload, and an admin panel for schedule verification and management. The system was tested using black box and User Acceptance Testing (UAT) methods, both of which confirmed that the application met user needs. The system significantly improves booking efficiency, reduces errors, and enhances the user experience for both customers and court managers.

Keywords: Court booking, badminton hall, RAD, web-based system, user interface.