

MOBILE-BASED SPORTS BUILDING MANAGEMENT APPLICATION DESIGN

(Case Study: Mahendrik Sport Center Subang)

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ABSTRACT

Mahendrik Sports Hall is a place that provides court rental services for sports activities such as futsal, volleyball and badminton. To book a field schedule, customers must come to the location and see the schedule directly via the booking schedule notice board provided. Apart from that, making rental data reports is still done manually using books. So, it does not rule out the possibility of human error or data loss. So, for the ordering process and managing rental data, a system is needed that is able to assist customers and sports hall managers in carrying out their activities. The application design method uses a REST API, which means that customers and admins/managers are connected to each other with a database as the source of the data obtained. Starting with designing reports and descriptions of system workflow, DFD, ERD. Then the program design process uses Kotlin, PHP, HTML, CSS, and JavaScript. The program is designed using the Laravel framework. The application that was successfully built runs smoothly and can carry out field bookings, data management, payments, and print rental data reports.

Keywords: System, Application, Ordering, Kotlin, REST API