IMPLEMENTATION OF WEB-BASED LIBRARY INVENTORY SYSTEM

(Case Study: YPKK 1 SLEMAN VOCATIONAL SCHOOL)

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ABSTRACT

SMK YPKK 1 Sleman faces challenges in managing library inventory which is still done manually, causing the risk of data loss and inefficiency in book recording. This study aims to design and implement a web-based library inventory information system as a solution to these problems. The method used in system development is the waterfall model, which includes the stages of planning, analysis, design, implementation, testing, and maintenance. Data was obtained through interviews and direct observation of library staff. This system is designed using the Laravel framework, Figma for interface design, and MySQL as a database. The result of this design is a system that allows librarians to input book data, manage submissions, and record borrowing and returning transactions digitally. System trials show that the inventory management process is faster and more accurate. The results of the study show that the implementation of a web-based information system can increase efficiency and reduce the risk of data loss in library inventory management at SMK YPKK 1 Sleman, as well as provide easy access and transparency in book management.

***Keywords**: Inventory, Library, Web, Laravel..*