

## ABSTRACT

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Laboratory is the place for lab equipped with various types of tools according to the type of lab work. The tools contained in the laboratory requires data collection and documentation of routine maintenance. Data collection and documentation of laboratory equipment is still done manually. The data collection is still done using paper that causes the data storage and retrieval laboratory equipment is inefficient, ineffective and time consuming. That requires the existence of a system inventory information that will assist data collection and documentation of maintenance of laboratory equipment becomes faster, more effective and efficient. Data collection methods to supplement the information provided dengn conduct field observations and interviews directly to the parties is needed in the development of information systems laboratory supplies. This system contains a menu that focuses on inventory management tools and lab materials, making letters procurement of equipment and materials lab, create graphical reporting tools and materials are often used, manage the borrowing and repayment of tools and materials lab, send notifications in the form of SMS content verification notice letter procurement of equipment and materials lab, procurement clinch a letter in the form of Pdf, managing tools are being repaired and damaged. This application will provide inventory information, making the collection of laboratory equipment more controlled. This application is made using working methods Waterfall, Codelgniter framework with the programming language PHP and MySQL as data storage media. This application uses the user acceptance testing, user usability testing and black box testing. SMS Gateway is used to provide verification information acquisition letter to the principal and treasurer.

**Keywords:** *Inventory Management Tools and Materials Laboratory, Waterfall, Codelgniter, MySQL, SMS Gateway.*