

ABSTRACT

DESIGN AND IMPLEMENTATION OF MANAGEMENT INFORMATION SYSTEM OF TURNING SHOP BASED DESKTOP ON BERKAH WORKSHOP

By

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Turning shop is one of the service business units engaged in the automotive field and grows rapidly. But, some business owners of turning shop are still using manual method in data management. Manual data processing leads various problems such as difficulties in backing up the data, needs more space to save important archives of workshop data, and takes a long time to make reports or statements. With the rapid development of information technology, manual data processing can be replaced by computerized information system. Berkah workshop becomes the object of observation because it is the one with manual data processing problem so it is necessary to replace its old system to integrated information system.

The development of this information system uses modified waterfall model as a method and Lazarus Pascal IDE, MySQL Server, and Gammu as tools to implement the model into software. Modified waterfall model consists of five steps, requirement, Design, implementation, Testing, and Maintenance and it has a feedback in every step to verify and improve previous step. This information system is developed and built according to the needs of Berkah workshop.

The result of functionality testing of information system to the 125 items which had been tested and divided into 5 categories is 100% running successfully and no failure. Information system which had been developed has the ability to process data digitally such as employee, customer, machines and tools, user, and jobs, records transactions of workshop, makes a support reports and financial statements, and sends an information of customer transaction through SMS.

Key Words : *Information System, Modified Waterfall, SMS Gateway.*