

ABSTRACT

PT. Dirgantara Indonesia (Persero) is a company engaged in the aerospace industry. In the process of assembling aircraft components in PT Dirgantara Indonesia, the role of tools is vital, because a machine will not work if one of the tools is not available in the warehouse . Complex problems arising in the process of borrowing and return tools are inefficient due to the non-value added activities that occur in the internal management of the warehouse so spent a long time for each activity.

To solve the above problems, PT Dirgantara Indonesia needs a web-based integrated sistem to support the business processes in the company. Warehouse construction management & Borrow-Return Sistem is a solution to overcome these problems. Warehouse management & Borrow-Return Sistem will be built using waterfall methods. Analysis and design of sistems using UML and J2EE Struts 2 technology as the framework in the development of the sistem. Then the sistem was tested with a test sistem functionality and user acceptance test. The test results show that the sistem has been built according to the design of the sistem and user needs.

The result of the construction of Warehouse management & Borrow-Return Sistem can shorten the cycle time borrow-return tools to facilitate production user as the Borrower tools an interface that enables production user does not need to perform repetitive activities visit the Tool Crib to borrow tools, besides that this sistem also can be assist the Tool Crib operators in managing the tools in it, so that the process of borrowing tools is optimal and does not inhibit production aircraft components process in PT. Dirgantara Indonesia.

Keywords : Warehouse Management Sistem, borrow - return, struts 2.