ABSTRACT

PT Dirgantara Indonesia is a major company that is engaged in the manufacture of aircraft engines. One of the machines used in PT.DI is 5H6P Millac machine used to manufacture components in PT.DI and is a key facility in making the component. As a key facility, the machine must always be ensured work well. Therefore, we need a process of regular engine maintenance by the operator. Based on the existing data is known that a lack of expertise to run maintenance on a machine that is not their responsibility. It is an indicator of the existence of inequality in knowledge who is possessed by the operator in PT.DI.

This is the underlay for research it to create an e-learning application based on knowledge as the realization process of externalizing knowledge 5H6P Millac engine maintenance from the experts at PT.DI into an explicit knowledge. This application is designed to enable employees of PT.DI in studying the process of maintenance, for example, in video format, audio, text or animation. Features in this application are output from QFD (Quality Function Deployment), so consumers directly involved in application design. Applications designed using UML diagrams (Unified Modeling Language) and uses an iterative method as design stages. The next stages is created application by encoding in the LMS Moodle and introduce to the end-user.

Results from this research is an e-learning application as a system for knowledge sharing PT.DI maintenance operator. Based on the tests performed, e-learning has been successfully facilitate the understanding of the user and has been accepted by the PT.DI maintenance operator as end users of e-learning.

Keywords : E-learning, QFD (Quality Function Deployment), Moodle, iterative method, and UML (Unified Modeling Language)