

ABSTRACT

Information System major at Institute of Technology Telkom has courses Web Application Development (WAD) which can be one of the chance to produce many competent Web Application Developers so that it can meet the market needs in the field of WAD. However, current learning process that takes place in the course WAD is still not good. It can be seen from the results of previous surveys showing that 70% of 37 students who have attended WAD courses is still less able to understand the overall course material WAD.

In this thesis, built interactive learning multimedia software development for Web Application Development course as a medium that can help the learning process WAD subjects. In this learning software, learning content delivered in the form of animation that can increase student interest and understanding of the WAD subjects. With this software, is expected to help the learning process in particular WAD subjects on 5 main material, such as Model-View-Controller, Servlet, Java Bean, JSP Standard Tag Library, JSP 2.0 Expression Language. This interactive multimedia learning software built using HTML 5 technology and ADDIE instructional design.

In this research, functional and user acceptance testing have been carried out. The result of functional testing is that all functions in software can run well. Then, the result of user acceptance testing is that over 50% of 25 students agree that display quality, program interaction, user interaction and material presentation on software are good.

Keywords: Web Application Development, multimedia learning, interactive multimedia, HTML 5, ADDIE, Web Developer.