ABSTRACT

In the field of software engineering known term software modeling. Software modeling allows us to parse problems that can facilitate in analyzing and communicating solutions by developers and other parts involved. However, this modeling process is often missed or deliberately passed in the software development process with the reasons one of them is due to the process of modeling that takes a very long time. Automatic partial generation is said to help analysts in the process analysis model. UML is one of the modeling languages that have notation in the form of diagrams to build models in the analysis phase and system design. UML is now the most commonly used modeling language. One part of the UML diagram that can be used for object-oriented modeling is the sequence diagram UML sequence diagram is used to model the flow of messages, events, and actions between objects or components of a system. It can help predict how a system will behave and to discover the responsibilities a class needs to have in the process of modeling a new system. In this research will be built a web-based system that can help analyst or team developer in doing automatic partial generation sequence diagram. Based on the analysis of the test results, obtained the result that as many as 36 scenarios test runs with valid and appropriate expectations, while for usability of the system obtained results that the system is user friendly. Furthermore, the result of the correctness measurement of the generate sequence diagram shows that the overall correctness level shows the value of 3.95 from the scale of 1-5. This shows that this system has a fairly good corretcity level so it can be said that the output sequence diagram of this system already has a good level of truth.

Keywords : software modeling, UML, UML diagram, sequence diagram,analyst