ABSTRACT

A reliable information system is an information system that is able to meet the needs of its users, whether it provides actual information or helps lighten the workload, such as the cognitive load in writing a scientific paper. A reliable information system is an information system that is able to provide a sense of security regarding data and the data processing process itself. One of the information system modeling is Client and Server, where one server can have several active clients simultaneously accessing the features provided by the system. In its modeling, an approach such as JWT (JSON Web Token) is commonly used, to connect the Client and Server, and through the JWT communication can be established between the system and the user. In its implementation, of course, it requires testing of the level of security and risks that may occur, this study discusses the implementation of the JWT system along with the steps for implementing security, where the case study of the system is a system that facilitates the writing of scientific papers (SI PENA / Scientific Paper Writing Information System). The system implementation steps begin with modeling using UML (Unified Modeling Language), and are accompanied by mock-up illustrations of the system interface display. The MySQL Database and Javascript Programming Language are used on both the server and client sides.

Keywords: UML Diagram, JWT, Scientific Paper Writing Information System