

Abstrak

Requirement engineering is a process in exploring the need and the desire of stakeholders and developing it into a detailed requirement that must be agreed with the objectives of the foundation in the development of the next information system. The failure in the needs of the engineering process will cause the failure in the information system which has been created. Bandung Telkom Vocational School is the best Vocational School in district Bandung. The division of guidance and counselling at Bandung Telkom Vocational School cannot be implemented to the maximum possible extent by the students because the problems in managing the teacher's schedules, such as the limitation of the teacher's number, time, insecure privacy, etc. It surprisingly made the students experience a decrease in their academic achievements. Therefore, we need a quality information system in order to increase the use of guidance and counselling in schools. One of the information systems of engineering method is Goal Oriented Requirements Engineering (GORE). It has several methods that includes TROPOS. The selection of TROPOS method is based on its strengths which can offer a detailed and comprehensive need analysis at the beginning of software development, as well as the most complete mechanism requirements of other GORE methods. TROPOS method is focused in analyzing the early as well as late requirements phases. The information systems are generated and evaluated by the stakeholders applying the black box testing and System of Usability Scale. Based on the black box testing is 90% and SUS test results obtained a value of 78.86. This result can be made as the foundation under the information system which has been implemented at Bandung Telkom Vocational School with the aim is to help the counselling teachers and the students in the counselling guidance process.

Keywords: Requirement Engineering, SUS, TROPOS, GORE, Black Box Testing, Telkom Vocational School
