ABSTRACT

The Computer-Based Test (CBT) is one of the media used in education to conduct summative assessments. One educational institution that has implemented the CBT system for this purpose is SMK PGRI Cikampek. Based on interviews with SMK PGRI Cikampek, the CBT system has never been evaluated, so its effectiveness remains unclear. Additionally, some users find the system interface confusing. To address this, the author conducted a usability evaluation of the CBT system at SMK PGRI Cikampek using the Retrospective Think-Aloud (RTA) technique. This technique involves two sessions: the first is task scenario testing, and the second is a verbalization session with respondents. This approach is tailored to the characteristics of the respondents, who are students that can easily get distracted during activities. Performance measurement was also used to gather quantitative data. The results of the evaluation on effectiveness for the 10th-grade respondents showed a score of 83%, and for the 11th-grade respondents, the effectiveness score was 86%. As for efficiency, the 10th-grade respondents achieved a score of 0.100445 goals/second, and the 11th-grade respondents recorded 0.113604 goals/second. Based on the test results, design improvements were made, and testing on design improvements. The final test results on effectiveness for the 10th grade and the 11th-grade respondents showed a score of 90%. As for efficiency, the 10th-grade respondents achieved a score of 0,232580 goals/second, and the 11th-grade respondents recorded 0,231885 goals/second.

***Keyword**: Computer Based-Test, Evaluasi Usability, Software Testing Life Cycle, Retrospective Think-Aloud, Performance Measurement*