QUALITY TESTING OF GENPI BENGKALIS SOFTWARE APPLICATION BASED ON ISO 9126

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ABSTRACT

The Generasi Pesona Indonesia Application, abbreviated as GenPI Bengkalis, is an application used to promote the tourism sector of Bengkalis Regency by showcasing tourist attractions, culture, cuisine, local SMEs, and accommodations. Until now, no testing and quality measurement have been conducted on the GenPI Bengkalis application. Therefore, the performance and functionality of the GenPI application still need to be questioned. In order to ensure the quality of the application, testing and quality measurement need to be carried out using the ISO/IEC 9126 standards and based on user perspectives, as well as according to quality measurement tools that correspond to the tested factors. The evaluation of the improvement in the quality of the GenPI application using ISO 9126 includes the factors of functionality, usability, reliability, portability, efficiency, and maintainability. In this research, the testing instrument used is a questionnaire to measure the quality of the GenPI application for 5 criteria, namely functionality, usability, reliability, portability, and maintainability. The questionnaire is provided to users and administrators of the GenPI Bengkalis application. After obtaining responses from the questionnaire, a feasibility test analysis is conducted to determine the quality level in these 5 factors, while for the efficiency criterion, testing is conducted using the GTMetrix tool. The results of the software quality testing based on ISO 9126 show that the functionality criterion has a feasibility percentage of 81.6%, usability 82.48%, reliability 77.56%, portability 80.73%, efficiency 87%, and maintainability 88%. The reliability factor has an interpretation of "Adequate," while the functionality, usability, portability, efficiency, and maintainability factors receive an interpretation of "Good".

Keywords: ISO 9126, Tourism, Testing, Quality.