

Abstract

Public gets information through in various media. However, they tend to prefer to view information through digital information services. One of the information technology services that are popular is Digital Signage, this makes it easy for people to see recent information at a location instantly. Digital Signage provides information by visualizing media transmitted over wired or wireless networks in the form of images or videos from the Server computer to the Xibo Client device that is spread around the community. However, most of the existing Digital Signage is designed at an expensive cost. In this research, a trial has been conducted to determine the ability of a Digital Signage device using Mini Computer Beelink Z85 aimed at tourist areas and displaying a relevant information content to a digital display with limited resources by using two test scenarios in the form of a performance test and a sensitivity test. Based on the results of the test scenarios that have been carried out, the results of the Sensitivity test carried out as many as 36 experiments have shown an average delay of 3 minutes 14 seconds each time a content change occurs, and with the Performance Test which shows able to display text, images, image slideshow and video but different from the scenario of Video Images and Embedded pages for Message Queuing Telemetry Transport (MQTT) which experience an average delay of respectively, 5 seconds and 3 seconds.

Keywords: : *Xibo, CMS, Digital Signage, MQTT*