

ABSTRACT

In order to create a cost-effective and environment-friendly means of disseminating information within an organization and yet reliability would not be compromised, the researchers designed and developed a system that incorporated the connection between a website and an LED bulletin board. Microcontroller programming, networking and web site development are the basic composition of the research project. A website is created to control the display of the LED bulletin board. The internet is a vital part of this research as it is needed to communicate and connect the site to the microcontroller of the LED board. The test parameters considered in this thesis were power efficiency, reliability, and speed which were all evaluated and proved by the research. The authors adapted the descriptive applied research design to observe the current practices of information dissemination in DLSU-D and to undergo stages such as design, analysis, construction and assessment of the overall system. Actual testing was conducted to justify the acceptability, functionality and reliability of the system.