Abstract

Many researchers have been interested in seeking a technology to implement a computer or hand-held electronic devices for in-class examination. An Optical Mark Reader (OMR) is the first technology that has been employed for this kind of services. It enables to evaluate the examination’s result faster and more correct especially for a huge number of questions. In addition, many technologies have been developed in order to obtain a full computerized examination. As the computer networks have been introduced, online examination via LAN or Internet is available. This system requires one device per examiner. Many electronic devices have been developed for supporting this service system, including PC, laptop, pocket PC. PCs or laptops are powerful in the sense that type of questions can be variety, i.e., multiple choices, true/false selection, subjective questions, mathematic solving, or graphic are available. However, these kinds of device seem to be too big, heavy, and consume high energy. Although, a hand-held pocket PC is smaller, lighter and consumer lower energy, it is too expensive and is not support all type of examinations. This research proposes an alternative examination service model, which is specifically developed for supporting all type of examination. This research shows that the proposed system gains advantages that of available for PC, and pocket PC.

Keyword : Examination Service Model, Electronic Examination, Wireless Interactive Examination, Online Examination, Paperless Examination