Abstract

In a rapidly evolving world, the convergence of different technologies has led to numerous path-breaking innovations. One such innovation is presented in this paper, which incorporates Internet of Things (IoT) on standard computer monitors, giving rise to Digital Notice Boards. Having migrated from manual recordkeeping of student and teachers' data to modern computerized methods, schools and colleges on the other hand, still continue to use traditional paper pinned notice boards. It is proposed to deploy a PIR (Passive InfraRed) sensor connected to an IoT Device, on a standard computer monitor to give rise to digital notice boards. The necessary GUI (Graphical User Interface) to post information remotely shall be web based, as the IoT device shall be connected to the institution's intranet network. The IoT Device opted for use is a Raspberry Pi Microcomputer, which is a credit-card sized single board device powered by 5V, capable of connecting to a network, a display, and the added functionality of USB for future enhancements. On the whole, this Raspberry Pi based digital notice board shall serve as a smart solution for information propagation.
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Index Terms

Computer Science
Information Systems

Keywords

Digital Notice Board, IoT, PIR Sensor, GUI.