

INTERNET OF THINGS (IOT) IN SCHOOLS: IMPROVING THE EFFICIENCY AND QUALITY OF EDUCATION

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Abstract

The implementation of the Internet of Things (IoT) in the school environment promises a significant transformation in improving the efficiency and quality of education. IoT technology enables the creation of a more interactive and personalised teaching-learning process, providing an educational experience that is better suited to the needs of individual students. In addition, IoT helps teachers monitor student progress in real-time, enabling more effective intervention and assistance. In terms of school management, IoT makes it easier to automate various operational tasks such as inventory control, energy management, and facilities maintenance, all of which contribute to cost savings and improved learning environments. However, successful implementation of IoT requires adequate technological infrastructure as well as special attention to privacy and data security issues. Therefore, cooperation between various stakeholders is necessary to overcome these challenges and maximise the potential of IoT in education.

Keywords: Internet Of Things (IoT), School, Efficiency, Education Quality.

Introduction

Education is an important foundation in the development of a nation. Along with the development of technology, the world of education has also undergone a significant transformation. Technology transformation in education has opened up significant new opportunities in the teaching and learning process. With the application of technologies such as Learning Management Systems (LMS), e-learning platforms, and interactive learning applications, students can now access teaching materials anytime and anywhere. Technology also enables personalisation of learning, where curriculum can be tailored to each student's level of understanding and learning pace. In addition, advances in virtual reality (VR) and augmented reality (AR) offer a more immersive and engaging learning experience. This transformation not only eases access to education, but also improves student engagement and learning outcomes, making technology a vital component in the development of modern education systems.