

ABSTRACT

The transition from traditional cash payment systems to digital payment solutions in school canteens addresses several inefficiencies and concerns affecting students, staff, and management. Common issues such as long waiting times, change shortages, and transaction inaccuracies plague conventional methods. Recent advancements in technology have made cashless alternatives, such as IoT-based smart cards, feasible for educational institutions. This paper discusses the necessity for a digitized payment system, highlighting its potential to enhance transaction efficiency and ensure secure payment processes, while also fostering digital literacy among students. An effective digital infrastructure allows for automatic record-keeping and data analysis of purchasing trends, subsequently improving product offerings and enabling parents to oversee their children's spending. Drawing on previous research related to RFID and NFC technologies, this study aims to develop an integrated solution tailored to the evolving demands of modern educational environments, ultimately creating a seamless and secure cashless ecosystem in school canteens.

Keywords: *Cashless Payment System, Internet of Things (IoT), RFID Technology, School Canteen, Real-Time Monitoring.*