

SMART SHOPPING TROLLEY WITH BILLING USING ARDUINO UNO

Domain : Smart Automation

Theme : Smart Retail / Intelligent Shopping

ABSTRACT

In today's fast-paced world, consumers demand quick and convenient shopping experiences. Traditional shopping methods, especially in supermarket and retail outlets, often involve long checkout queues and time-consuming billing process. To overcome these issues and improve customer satisfaction, technology-driven solutions have emerged. One such innovation is the Smart system using Radio Frequency Identification (RFID) .This system aims to streamline the shopping process by automating product identification and billing. By integrating an RFID reader with a microcontroller, each product can be represented by an RFID card. When the customer scans the card, the system identifies the item instantly and updates the status on an LCD display. This goal is eliminating the manual billing, reduce human error, and improve efficiency. This innovative model offers an initial step towards smart retail solutions and lays the foundation for more complex inventory and payment system in the future.

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