

# Theft Detection in Shopping Cart using IR Sensor

Prof. R. Y. Thombare<sup>1</sup>, Prasad Lonare<sup>2</sup>, Kunal Bagade<sup>3</sup>, Shobhit Kumar<sup>4</sup>, Chinmay Chinchole<sup>5</sup>

Professor, Department Of Computer Technology<sup>1</sup>

Students, Department Of Computer Technology<sup>2,3,4,5</sup>

K. K. Wagh Polytechnic, Nashik, Maharashtra, India

**Abstract:** *The advent of wireless technology along with other communication techniques has helped in making electronic commerce very popular. A modern forward-looking product aids comfort, convenience, and efficiency in everyday life. In this paper, we discuss an innovative concept of electronic Shopping. The key idea here is to assist a person in everyday shopping in terms of reduced time spent while purchasing a product. The main goal is to provide a technology-oriented, low-cost, easily scalable, and rugged system for aiding shopping in person. Electronic hopping is equipped with an RFID reader for product identification; it also has an LCD that informs customers about product prices, offers and the total bill. The RFID reader identifies the product and updates the bill. When the customer is done with shopping, he can just press the End shopping button, and the details are displayed on display then the customer has to pay just the amount and leave. These units are integrated into a smart enclosed system and are tested to satisfy the functionality. The customers will be able to scan the items themselves and the LCD screen on the shopping trolley will keep updating the total. This will turn out to be very beneficial for the retail stores as more people will enjoy the shopping experience and come more often to shop.*

**Keywords:** IoT Based Smart Trolley Cart, Smart shopping cart, Advanced.