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IOT and Barcode Based Smart Shopping Cart

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Abstract: In recent years, advancements in Internet of Things (IoT) technology have transformed various industries, including retail. One notable innovation is the development of IoT and barcode-based smart shopping carts, which aim to enhance the traditional shopping experience by integrating cutting-edge technologies. This research paper explores the concept, design, implementation, and potential impact of such smart shopping carts in retail environments. Through a comprehensive review of existing literature, case studies, and technological frameworks, this paper seeks to provide insights into the opportunities and challenges associated with the adoption of IoT and barcode-based smart shopping carts. Furthermore, it examines the implications of this technology on consumer behaviour, operational efficiency, and overall retail experience. The paper concludes with recommendations for retailers and future research directions in this burgeoning field

Keywords: IoT (Internet of Things), Smart shopping cart, Barcode scanning, Retail technology, Real-time analytics

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