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IOT Based Cashless Petrol Pump

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Abstract: *The integration of IoT technology with petrol pumps has revolutionized the fueling industry, introducing efficient, secure, and convenient payment methods. This abstract presents an IoT-based cashless petrol pump system utilizing RFID cards for streamlined transactions. Customers authenticate themselves by tapping their RFID cards on readers connected to a central IoT platform, which verifies and authorizes transactions in real-time. The system supports multiple payment methods linked to RFID cards, ensuring flexibility for users. Security measures like data encryption and robust authentication protocols safeguard transactions. The IoT infrastructure enables remote monitoring and management of petrol pumps, facilitating predictive maintenance and targeted marketing strategies. Overall, this system offers a seamless and secure fueling experience, aligning with digital transformation trends in the automotive industry.*

Keywords: RFID, IoT, Fueling, Petrol pump, Cashless

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