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PROJECT

SMART SHELVES FOR RETAIL PLATFORM

Pervasive computing uses embedding microprocessors in everyday objects to communicate information. With the advancements in IoT, a new trend in the era of ubiquity is being realised.

'Out of stock' is a great concern for the Consumer-Packaged Goods (CPG) and Retail Organisations. This paper describes how the racks/shelves at the retail store can be made smarter to raise alerts, keep track and set reminders. Utilising sensor and smartphone technology, an embedded processor in the shelves interacts with the user and automatically generates a to-buy list and sends alerts basis the requirement.

Features

- A simple user interface is used in the system and the hardware consists of Raspberry pi3, load cell, HX711 Amplifier and RFID

- The device connects to the cloud and keeps the retailer updated of all commodities in the shop.

The alert notification can also be given through the SMS when there's a particular need of any commodity