INVENTORY MANAGEMENT SYSTEM FOR RETAIL

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IDEATION

IOT BASED:

The inventory management system works based on a sensor which is attached to the shelves which senses the increment and decrement of products. The information sensed by the sensor is sent to the cloud on which all the data of the inventory management app is stored. The data is then updated to the app and the user is indicated of whether they need to order more products or about the number of products which is currently available.

CLOUD DATABASE

The inventory management system works based on connecting the database of the point-of-sale system and the database of the app. When a purchase takes place for a particular product in the POS the available quantity of that particular product in the app data base is decreased accordingly. The app functions in a such a way that when the quantity of a product falls below a particular threshold value the app automatically contacts the supplier for a new order. The threshold value must be set by the user. The app also notifies the user about the expiry date of products. The user also gets an indication of the products ordered, they will be able to track them and the app can also make automatic payments for every supply purchase.

AI BASED

The inventory management system is managed by robots. The robots are programmed in such a way that they check the quantity of products in the inventory and their validity and update the information to the cloud which in turn gets updated in the app database. Based on this information the user orders new supplies.