



Inventory Management Systems

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Introduction

An inventory management system is the combination of technology (hardware and software) and processes and procedures that oversee the monitoring and maintenance of stocked products, whether those products are company assets, raw materials and supplies, or finished products ready to be sent to vendors or end consumers.



Features

Applicability: Suited for diverse businesses – from small shops to multinational corporations – to manage and track inventory, including assets, raw materials, and finished products.

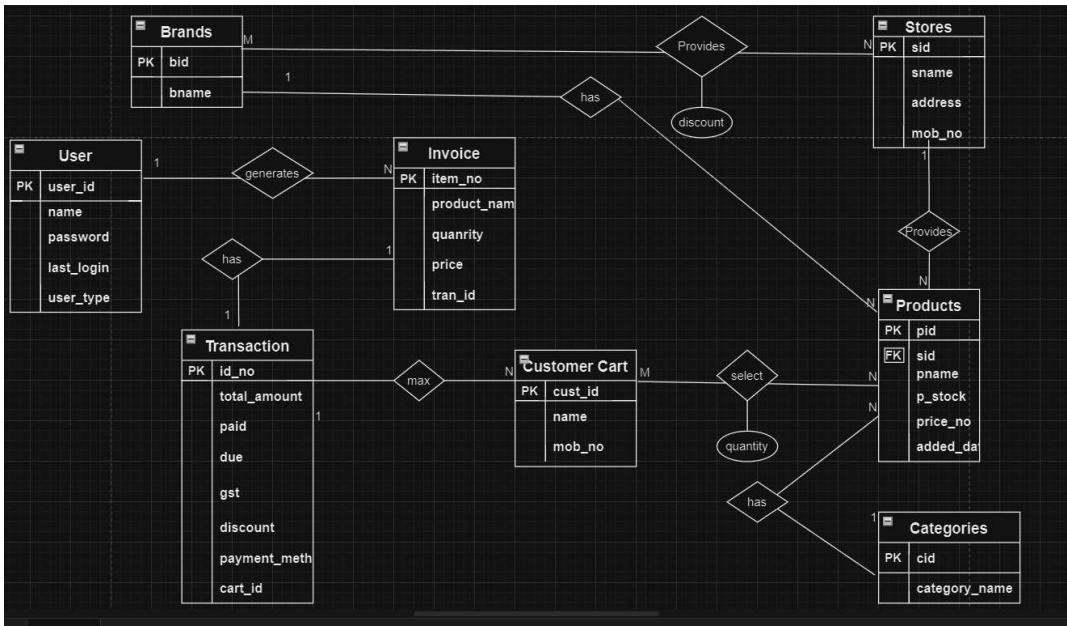
- **Stock Tracking**
- **Information Management**
- **Order Optimization:**



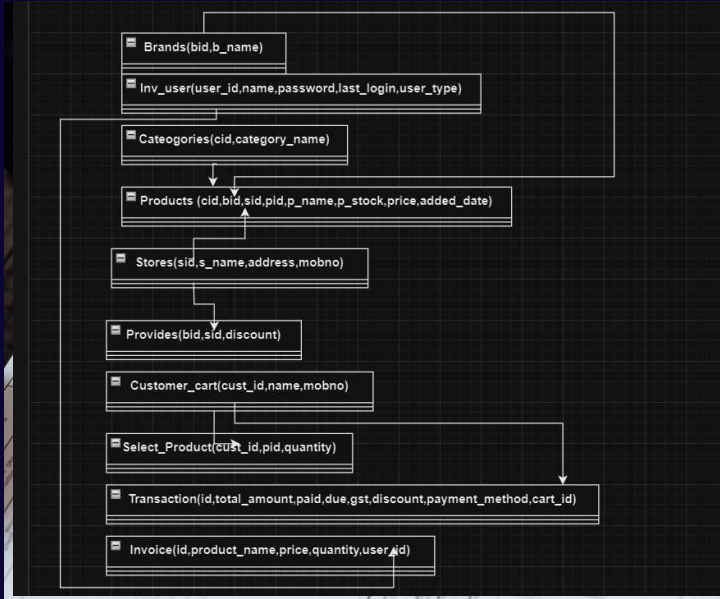
Entities

1. Brands:
 - Attributes: bid (Brand ID), bname (Brand Name)
2. inv_user (Inventory User):
 - Attributes: user_id, name, password, last_login, user_type
3. Categories:
 - Attributes: cid (Category ID), category_name
4. Products:
 - Attributes: pid (Product ID), cid (Category ID), bid (Brand ID), sid (Store ID), pname (Product Name), p_stock (Stock Quantity), price, added_date
5. Stores:
 - Attributes: sid (Store ID), sname (Store Name), address, mobno (Mobile Number)
6. Providers:
 - Attributes: bid (Brand ID), sid (Store ID), discount
7. Customer_cart:
 - Attributes: cust_id (Customer ID), name, mobno
8. Product
 - Attributes: cust_id (Customer ID), pid (Product ID), quantity
9. Transaction:
 - Attributes: id, total_amount, paid, due, gst, discount, payment_method, cart_id (Customer Cart ID)
10. Invoice:
 - Attributes: item_no, product_name, quantity, net_price, transaction_id

ERD



Relationships



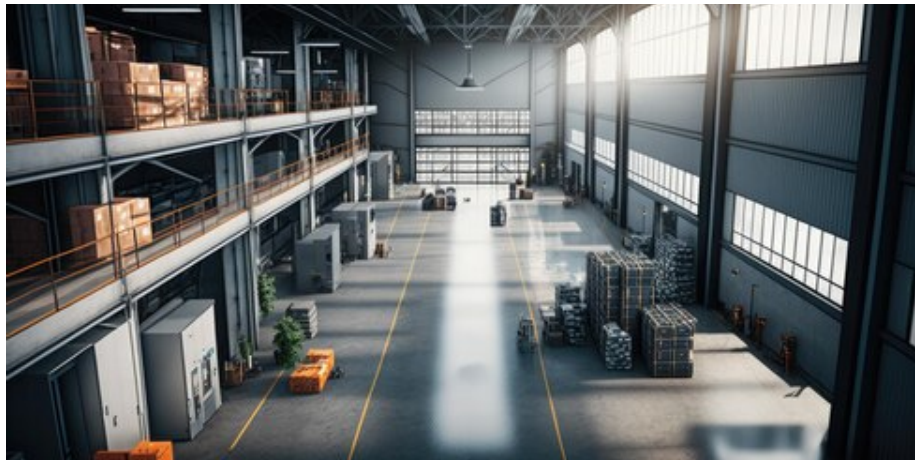
Features

- Unique Email for User
- Positive Stock Quantity
- Updates Last Login Timestamp



Best Practices in Inventory Control

Sales Report Procedure Stock Overview View Automatic Stock Update



Advantages

- Inventory Turnover
- Repeat Customers
- Accurate Planning
- Warehouse Organization
- Employee Efficiency
- Inventory Tracking





Conclusion

In conclusion, leveraging advanced **inventory management systems** is pivotal for organizations to achieve **operational excellence** and **sustainable growth**. Embracing innovation in this area is key to staying competitive in today's dynamic business landscape.