Stock Management System

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Stock Management System Documentation

Overview

This **Stock Management System** is an advanced solution developed by **Ibex Technologies and Promotion**. This system efficiently manages inventory, sales, purchases, payments, stock adjustments, transfers, and reporting across multiple stores or warehouses. Built with **Vue 3** for the frontend and **Laravel** for the backend, it enables seamless management of various business processes, offering detailed insights into inventory, financial transactions, and overall performance across multiple locations.

Key Features

- **Multi-Store Support**
  - The system supports managing multiple stores or warehouses, allowing for separate product, sales, and inventory management across different locations.
- **Parties Management**
  - **Customers & Suppliers**: Users can manage parties that either purchase products (suppliers) or sell products (customers). For each party, opening balance, credit period, and credit limit can be set per warehouse.
- **Product Manager**
  - **Brands**: Manage and create brands that are common for all warehouses/stores.
  - **Categories**: Create categories for products. Categories can be root or sub-categories, with sub-categories assigned to parent categories.
  - **Variations (Product Variants)**: Manage product variations (e.g., size, color, etc.) for each product, allowing different configurations under the same product.
  - **Products**: Products are centrally managed, with specific details such as opening stock, purchase price, sales price, tax, and wholesale price handled per warehouse/store.
- **Sales and Purchases**
  - **Sales**: Add new sales, filter by party, invoice number, and dates, manage sales returns, and link payments to sales invoices. Sales status is automatically updated when payments are added.
  - **Quotation/Estimation**: Generate and manage quotations or estimations for customers before confirming a sale.
  - **Purchase**: Similar to sales, purchase transactions are tracked, including returns, payment management, and invoice downloads.
  - **Sales Returns**: Process product returns from customers and link payments or credit notes.
- **Stock Management**
  - **Stock Adjustment**: Adjust product stock levels by increasing or decreasing quantities. Stock alerts are recalculated automatically.
  - **Stock Transfer**: Transfer products between different stores or warehouses to keep stock levels in sync across locations.
  - **POS (Point of Sale)**: Fast sales transactions with quick product selection, invoice generation, and payment collection.

- **Expenses & Payments**
  - **Expenses**: Track business expenses, organize them by category, and link to specific customers or transactions.
  - **Cash & Bank**: Manage payment inflows and outflows, segregating cash and bank transactions for clearer financial insights.
- **Staff Members Management**
  - **Role-Based Access Control (RBAC)**: Add staff members with specific roles and permissions, ensuring that only authorized personnel can access certain parts of the system.
- **Reporting**
  - **Reports**: Generate comprehensive reports on payments, stock alerts, sales, product performance, user activities, expenses, and financial summaries. Reports include:
    - **Payments**: Detailed payment reports by user or date.
    - **Stock Alert**: Track products that are out of stock or low in stock.
    - **Sales Summary**: Summary of sales performance, including total sales, returns, and payments.
    - **Stock Summary**: Overview of stock levels across all products and stores.
    - **Rate List**: View and manage the rates for products, including purchase, sales, and wholesale prices.
    - **Product Sales Summary**: Summary of sales performance for each product.
    - **Users Reports**: User-specific reports, showing contributions to sales, purchases, and other activities.
    - **Expense Reports**: Overview of business expenses, categorized by type and associated customer.
    - **Profit & Loss**: Detailed financial report tracking business profits and losses over a given period.

System Modules

1. Parties

- **Customers**: Manage customers who purchase items.
- **Suppliers**: Manage suppliers from whom items are purchased.
- **Key Fields for Creating Party**:
  - Profile Image
  - Party Name
  - Email Address
  - Opening Balance (Pay/Receive)
  - Credit Period
  - Credit Limit

2. Product Manager

- **Brands**: Brands are common across all stores. Brands are created centrally in the system.

- ❖ **Categories**: Categories can be root or subcategories. Subcategories are assigned to parent categories.
- ❖ **Variations**: Manage product variants (e.g., size, color) for each product. Variations allow different configurations for the same product.
- ❖ **Products**:
    - ➢ **Key Fields for Creating Party**:
        - ➢ Product Type
        - ➢ Image
        - ➢ Warehouse
        - ➢ Name
        - ➢ Slug
        - ➢ Category
        - ➢ Brand
        - ➢ Unit
        - ➢ Quantity Alert
        - ➢ Barcode Symbology
        - ➢ Item Code
        - ➢ Tax
        - ➢ Opening Stock
        - ➢ Opening Stock Date
        - ➢ Purchase Price
        - ➢ Sales Price
        - ➢ MRP (Maximum Retail Price)

3. Sales and Purchases

- **Sales**: Add new sales, manage returns, track payments, and download sales invoices. Filter by party, invoice number, or dates.
- **Sales Returns**: Process product returns and add payments or credit notes.
- **Payment In**: Link payments to sales invoices, automatically detecting due invoices.
- **Purchases**: Add new purchases, manage returns, and link payments to purchase invoices.
- **Purchase Returns**: Process returns from suppliers and link payments or credit notes.

4. Stock Management

- **Stock Adjustment**: Adjust product stock by quantity, either adding or reducing stock. The system recalculates stock levels and alerts accordingly.
- **Stock Transfer**: Transfer products between stores to ensure accurate stock levels in each location.
- **POS (Point of Sale)**: Fast sales transactions, product selection, invoice generation, and payment collection.

5. Expenses

- **Expenses Management**: Organize business expenses into categories
- **Cash & Bank**: Track payments made in cash or through the bank and provide clear reporting for financial transparency.

6. Staff Members

- **Role-Based Access Control (RBAC)**: Add staff members with specific roles and access permissions. This ensures that users can only access the parts of the system relevant to their responsibilities.

7. Reports

- **Payments**: View detailed reports of all payments made to or from the business, filtered by user or date.
- **Stock Alerts**: Get alerts for products that are out of stock or low on inventory.
- **Sales Summary**: Track total sales, returns, and payments over time.
- **Stock Summary**: Get an overview of stock levels across all stores, helping track inventory more effectively.
- **Product Sales Summary**: Track product-specific sales performance to identify top performers.
- **Users Reports**: Generate reports on user activity, including sales, purchases, and payments, to assess their contributions to business growth.
- **Expense Reports**: Get detailed insights into business expenses and track them by category.
- **Profit & Loss**: View detailed financial summaries to track the business's profit and loss over specified periods.

Additional Features

- **SMS Module**
  The system includes an **SMS module** that sends notifications(one time password or code) to customers when they make a purchase (based on the salesman's choice to send or not send). Additionally, SMS notifications are sent to the relevant store when products are transferred to another location.

System Architecture

- **Frontend**: Developed with **Vue 3**, providing a responsive and intuitive user interface for easy management of products, sales, purchases, and more.
- **Backend**: Built with **Laravel**, ensuring robust handling of business logic, database operations, and security.
- **Database**: Utilizes a relational database system (MySQL) to store all transactional and inventory data.

How to Use the System

- **Adding a New Record**
  - Navigate to the relevant section of the system.
  - Click on the *Add New* button.
  - Fill in the required fields with the necessary information.
  - Click *Save* to complete the process.
- **Editing a Record**

- Navigate to the record you want to edit.
- Click the *Edit* button.
- Make the necessary changes to the information.
- Click *Save* to update the record.

- **Deleting a Record**
  - Navigate to the record you want to delete.
  - Click the *Delete* button.
  - Confirm the deletion to remove the record from the system.
- **Managing Transactions**
  - Navigate to the transactions section (e.g., sales, purchases).
  - Click the *Add New* button.
  - Enter the necessary details.
  - Save the transaction to complete the process.

These steps can be applied generally across different modules within the system.

Conclusion

This Stock Management System is a comprehensive solution for managing all aspects of inventory, sales, purchases, payments, and reporting across multiple warehouses or stores. With its intuitive interface and powerful backend, the system helps businesses streamline operations, improve financial visibility, and boost efficiency.