

E-Wholesale Management System

Course Title: Database Management Systems Laboratory

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Team Hope, Section: C

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Introduction

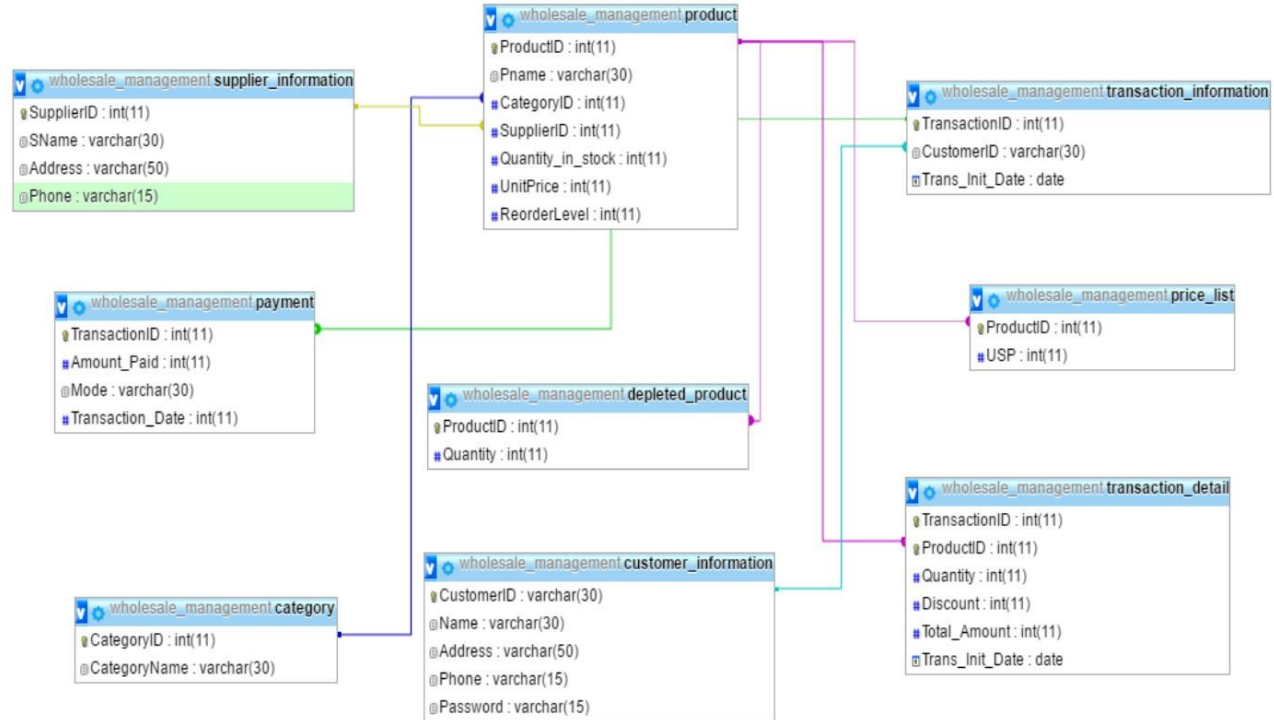
Revolutionizing Wholesale Management Through Innovation

This lab report introduces an E-Wholesale Management System , a groundbreaking solution tailored for modernizing business operations in developing economies. Despite technological progress, many wholesale businesses in these regions remain tied to pen and paper methods, leading to inefficiencies and security vulnerabilities. Our project addresses this gap by creating a dynamic sales management web app for E-wholesale businesses, enhancing efficiency and data security, especially for small-scale enterprises.

The E-Wholesale Management System leverages web technology, making it accessible to smaller businesses seeking cost-effective alternatives. Anchored by an administrator login, it empowers wholesalers with features to oversee sales and inventory, optimizing their operations. Moreover, the system integrates customers and suppliers, streamlining sales interactions seamlessly.

Customers receive personalized login access, enabling them to monitor transactions with the wholesaler. This innovative framework simplifies daily business activities, enhancing overall enterprise management. Drawing from best practices observed in developed countries, our project designs a robust and functional E-Wholesale Management System.

Relational Model/Schema



Application and Feature

There are two types of accounts. Administrator and Customer.

Administrator Account Features:

In the E-Wholesale Management System, Administrator and Customer accounts serve distinct business and customer needs. Administrators wield paramount control, streamlining wholesale operations with:

- **Effortless Product Management:** Seamlessly add, update, and categorize product details for enhanced accessibility.
- **Supplier Information Control:** Keep supplier details current and accurate.
- **Customer Information Management:** Maintain a comprehensive customer database for personalized interactions.
- **Vigilant Stock Maintenance:** Real-time view of depleted stock enables proactive inventory management.
- **Transaction Insights:** Review transactions within a specific time frame for a comprehensive overview.
- **Real-time Transaction Recording:** Input offline transactions and capture vital payment details.
- **Efficient Billing:** Promptly generate accurate bills using unique TransactionIDs.

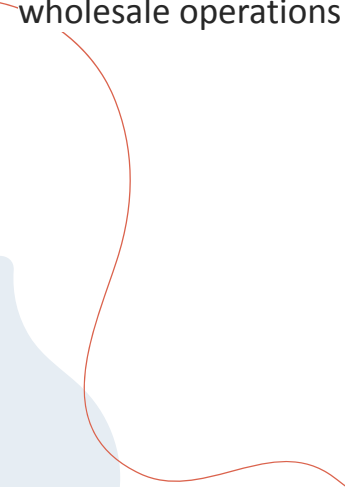


Customer Account Features:

Catering to customers, the E-Wholesale Management System offers:

- **Transaction Visibility:** Customers gain transparency by viewing transactions over a set period.
- **Categorized Product Search:** User-friendly category-wise product exploration.
- **Streamlined Billing:** Empowering customers to generate bills for past transactions.

In summary, the E-Wholesale Management System serves both administrative and customer needs, revolutionizing wholesale operations with technology-driven efficiency, accuracy, and engagement.



System Constraints

As the E-Wholesale Management System orchestrates the intricate dance of transactions and inventory, it adheres to a set of critical constraints that ensure accuracy, reliability, and seamless functionality:

- **Transaction Integrity Verification:** Prior to embarking on any transaction, a dual assessment ensues: the ordered product's quantity must remain less than the available stock, and it must also exceed the wholesaler's predefined minimum quantity threshold. Failure to meet either criterion halts the transaction process.
- **Replenishment Trigger Mechanism:** To preempt stock shortages, each product bears a Reorder Level. Should the stock of a specific product dip beneath this level, the system intuitively ushers the product into the depleted stocks table, waiting for restoration.
- **Payment Mode Precision:** In the realm of financial transactions, the 'mode' attribute reigning over the payment table adheres strictly to three designated values: 'cash', 'debit card', or 'credit card'. This meticulous limitation streamlines payment data for unwavering accuracy and consistency.

By meticulously observing these constraints, the E-Wholesale Management System upholds the reliability and fluidity essential for an efficient wholesale business operation.

Conclusion: Scope and Considerations

In summary, this prototype offers a glimpse into a potential sales management solution for e-wholesale businesses. Acknowledging its current limitations, it serves as a foundation for a more robust application that could significantly benefit small enterprises. With its offline transaction focus, the system simplifies management and enhances security. Notably, legal integration could assist tax regulation, making the application a valuable tool for both efficiency and compliance. While this prototype is modest, it signals the promising trajectory of technology for e-wholesale management.

Few ScreenShots of our Project

Customer

The Complete Info

Home

Category

Transactions

Logout

Welcome ! Please refer to the left side of the screen to check the options and pick your desired options. We have Category for you to check your desired product and Transactions to check your transaction from a set period.

READ MORE

COMMENTS

Welcome Iftekhar

Customer

The Complete Info

Home

Category

Transaction

Logout

Welcome! This is the Customer Transaction menu. Here you Can check Your Transaction histories in a set period of time ! You can also press check Category to check the available products and Home Page to go back to your homepage !

READ MORE

COMMENTS

From Date to To Date Transactions

From Date:

mm/dd/yyyy



To Date:

mm/dd/yyyy



SHOW TRANSACTIONS

C11

Home

New Transaction

All Transactions

All Stocks

Depleted Stocks

Add category

Add or Update Stocks

Add or Update Supplier

Orders

Logout

Welcome! This is the Add or Update supplier part of the Administration Account. Here you can add new supplier or update info about the existing ones. Please refer to the navigation menu on the left to check more options.

READ MORE

COMMENTS

NEW Supplier

Name:

Supplier-ID:

Phone:

Address:

SEND

Suppliers

| SupplierID | SName | Phone | Address |
|------------|--------|-----------|---------|
| 0 | | | |
| 1 | Nahid | 123456789 | XYZ |
| 2 | Chagol | 987654329 | QWE |

UPDATE SUPPLIER NAME

SupplierID:

Welcome! This is the Update stocks menu for Administration Account. Here you can Create new stocks, Update existing stocks, update stock costs and price you want to sell for. Please refer to navigation menu on the left for more information.

READ MORE

COMMENTS

NEW STOCK

Product-ID:

Product-Name:

Catagory-ID:

Supplier-ID:

Quantity:

Cost Price:

Selling Price:

Re-Order-Level:

ADD

UPDATE STOCK QUANTITY

Stock-ID:

Quantity:



Thank you !