Explanation of Simple Operator System Code

1. Overview

This is a command-line Python program that allows operators to log in, add goods entries, and view past entries. It uses a local SQLite database to store user and product information, including tax and timestamp for each entry.

2. Importing Modules

The code imports 'sqlite3' for database handling and 'datetime' to get the current timestamp for each entry.

3. Database Connection

It connects to a SQLite database named 'simple_operator_system.db'. A cursor is created to execute SQL queries.

4. Creating Tables

Two tables are created:
- 'operators' to store usernames and passwords
- 'goods_receiving' to store all goods details like product name, quantity, rate, tax, and timestamp.

5. Adding Default Operators

The function 'add_operator' adds predefined users (operator1 and operator2). It uses try-except to avoid duplicates.

6. Login System

The 'login' function asks the user for a username and password. If valid, it returns the operator's ID; otherwise, it shows a failure message.

7. Adding Goods Entry

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The 'add_goods' function takes product details like name, supplier, quantity, unit, and rate. It calculates the total and 18% tax, then adds the entry with the current date and time to the database.

8. Viewing Past Entries

The 'view_entries' function fetches and displays all goods entries made by the logged-in operator, ordered by the most recent timestamp.

9. Main Program

The program starts with login. After login, the operator sees a menu with 3 options:

1. Add goods entry

2. View past entries

3. Exit

10. Summary

This program is useful for basic inventory or goods entry management. It's simple, works offline, and can be extended with features like admin login, exporting data, or graphical UI.