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# database.py
import sqlite3
from datetime import datetime
# Establish a connection to the SQLite database and create tables if they don't exist
class DatabaseManager:
  def __init__(self):
    self.conn = sqlite3.connect("restaurant.db")
    self.create_tables()
  def create_tables(self):
    # Create the necessary tables for the restaurant management system
    cursor = self.conn.cursor()
    cursor.execute("""
      CREATE TABLE IF NOT EXISTS foods (
         id INTEGER PRIMARY KEY AUTOINCREMENT,
         name TEXT NOT NULL,
         price REAL NOT NULL
      )
    cursor.execute("""
      CREATE TABLE IF NOT EXISTS drinks (
         id INTEGER PRIMARY KEY AUTOINCREMENT,
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name TEXT NOT NULL,
    price REAL NOT NULL
 )
""")
cursor.execute("""
 CREATE TABLE IF NOT EXISTS orders (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    food_id INTEGER,
    drink_id INTEGER,
    food_qty INTEGER,
    drink_qty INTEGER,
    total_price REAL,
    order_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (food_id) REFERENCES foods(id),
    FOREIGN KEY (drink_id) REFERENCES drinks(id)
  )
cursor.execute("""
  CREATE TABLE IF NOT EXISTS customers (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    name TEXT NOT NULL,
    contact TEXT
 )
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self.conn.commit()
class Food:
  def __init__(self):
     self.db = DatabaseManager()
  def add_item(self, name, price):
     with self.db.conn:
       self.db.conn.execute("INSERT INTO foods (name, price) VALUES (?, ?)", (name, price))
  def list_items(self):
     with self.db.conn:
       return self.db.conn.execute("SELECT * FROM foods").fetchall()
class Drink:
  def __init__(self):
     self.db = DatabaseManager()
  def add_item(self, name, price):
     with self.db.conn:
       self.db.conn.execute("INSERT INTO drinks (name, price) VALUES (?, ?)", (name, price))
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def list_items(self):
     with self.db.conn:
       return self.db.conn.execute("SELECT * FROM drinks").fetchall()
class OrderManager:
  def __init__(self):
     self.db = DatabaseManager()
  def place_order(self, food_id, drink_id, food_qty, drink_qty, total_price):
     with self.db.conn:
       self.db.conn.execute("""
          INSERT INTO orders (food_id, drink_id, food_qty, drink_qty, total_price)
          VALUES (?, ?, ?, ?, ?)
       """, (food_id, drink_id, food_qty, drink_qty, total_price))
  def list_orders(self):
     with self.db.conn:
                 return self.db.conn.execute("SELECT * FROM orders ORDER BY order_date
DESC").fetchall()
class CustomerManager:
  def __init__(self):
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self.db = DatabaseManager()

def add_customer(self, name, contact):
    with self.db.conn:
        self.db.conn.execute("INSERT INTO customers (name, contact) VALUES (?, ?)", (name, contact))

def list_customers(self):
    with self.db.conn:
    return self.db.conn.execute("SELECT * FROM customers").fetchall()
```