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from flask import Flask, request, jsonify
import sqlite3

app = Flask(__name__)

# Initialize the database and create the 'users' table if it
doesn't exist
def init_db():
    with sqlite3.connect("users.db") as conn:
        conn.execute('''CREATE TABLE IF NOT EXISTS users
                        (id INTEGER PRIMARY KEY
AUTOINCREMENT,
                        username TEXT UNIQUE NOT NULL,
                        password TEXT NOT NULL)''')
        conn.commit()

# Endpoint for user registration
@app.route('/register', methods=['POST'])
def register():
    data = request.get_json() # Get data from the client
    username = data.get("username")
    password = data.get("password")

    # Check for missing fields
    if not username or not password:
        return jsonify({"error": "Username and password are
required"}), 400

    try:
        with sqlite3.connect("users.db") as conn:
            cursor = conn.cursor()
            # Insert the new user into the database
            cursor.execute("INSERT INTO users (username,
password) VALUES (?, ?)", (username, password))
            conn.commit()
            return jsonify({"message": "User registered

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successfully"}), 201
    except sqlite3.IntegrityError:
        # Handle case where username already exists
        return jsonify({"error": "Username already
exists"}), 409

# Endpoint for user login
@app.route('/login', methods=['POST'])
def login():
    data = request.get_json() # Get login data from the
client
    username = data.get("username")
    password = data.get("password")

    with sqlite3.connect("users.db") as conn:
        cursor = conn.cursor()
        # Check if username and password are in the database
        cursor.execute("SELECT * FROM users WHERE username=?
AND password=?", (username, password))
        user = cursor.fetchone()

        if user:
            return jsonify({"message": "Login successful"})
        else:
            return jsonify({"error": "Invalid
credentials"}), 401

# Initialize the database when the server starts
if __name__ == '__main__':
    init_db()
    app.run(host='0.0.0.0', port=5000)

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