

app.py

- `@app.route('/login', methods=['POST'])` defines the login route, which accepts only POST requests.
- `login()` function handles the login process.
- `data = request.json` retrieves the JSON data from the incoming request.
- `username = data.get('username')` gets the username from the JSON data.
- `password = data.get('password')` gets the password from the JSON data.
- `if not username or not password` checks if the username or password is missing.
- `return jsonify({"error": "Missing username or password"}), 400` returns an error response if either field is missing.
- `connection = connect_to_mysql()` establishes a connection to the MySQL database.
- `cursor = connection.cursor(dictionary=True)`: Creates a cursor object that fetches rows as dictionaries.
- `cursor.execute("SELECT * FROM users WHERE username = %s AND password = %s", (username, password))` executes a SQL query to select a user with the provided username and password.
- `user = cursor.fetchone()` fetches the first matching row from the result set.
- `cursor.close()` closes the cursor.
- `connection.close()` closes database connection.
- `if user` checks if a user was found.
- `return jsonify({"message": "Login successful", "user": user})` returns a success message with the user data if a user was found.
- `return jsonify({"error": "Invalid username or password"}), 401` returns an error message