ReqRes User Client

This is a simple Java application that demonstrates how to consume a RESTful API using Java's built-in HTTP client and Google's Gson library. It fetches and displays paginated user data from the ReqRes API (https://reqres.in/), a free API for testing and prototyping.

\* This README.md file is created by AI.

\* Code is built for learning and demonstration purposes.

# Dependencies

- Java 11+

- Gson for JSON parsing

# Project Structure (basic)

src/  
├── main/  
│ ├── java/  
│ │ └── com/example/reqresclient/  
│ │ ├── UserDTO.java  
│ │ └── UserClient.java  
│ └── resources/  
│ └── config.properties

# Features

- Connects to a REST API endpoint to fetch users page-by-page.

- Deserializes JSON responses into Java objects using Gson.

- Supports debug mode to print detailed user info.

- Handles errors gracefully and provides descriptive error messages.

# How to Run

## Build and Run

**Using Maven:**

Open your terminal or command prompt and navigate to the reqres-client directory, which contains your pom.xml file.

mvn clean compile

mvn package

cd target java -jar reqres-client-1.0-SNAPSHOT.jar

**Without Using Maven:**

To build your Java code without Maven, you'll need to manually handle compilation, dependency management, and JAR creation using command-line tools like javac and jar that come with your Java Development Kit (JDK).

**Windows (Command Prompt/Powershell):**

javac -d target\classes -cp lib\gson-2.10.1.jar src\main\java\com\example\reqresclient\\*.java

copy src\main\resources\config.properties target\classes\config.properties

jar -c -v -f reqres-client.jar -m MANIFEST.MF -C target/classes .

java -jar reqres-client.jar

**Linux (Bash):**

javac -d target/classes -cp lib/gson-2.10.1.jar src/main/java/com/example/reqresclient/\*.java

cp src/main/resources/config.properties target/classes/config.properties

jar -cvfm reqres-client.jar MANIFEST.MF -C target/classes .

java -jar reqres-client.jar

# 📘 Example Output

Using API Base URL from config: https://reqres.in/api/users  
Debugging Enabled: true  
  
--- Fetching All Users Across Pages ---  
  
--- Users on Page 1 ---  
Name: George Bluth  
 Debug Info: UserDTO{id=1, email='george.bluth@reqres.in', firstName='George', lastName='Bluth'}  
...