

Práctica Google Gson

Código:

```
//package com.mkyong.java11.jep321;

import java.io.IOException;
import java.net.URI;
import java.net.http.HttpClient;
import java.net.http.HttpRequest;
import java.net.http.HttpResponse;
import java.time.Duration;
import java.net.URLEncoder;
import java.nio.charset.StandardCharsets;
import com.google.gson.*;

public class HttpClientSynchronous {
private static final HttpClient httpClient = HttpClient.newBuilder()
.version(HttpClient.Version.HTTP_1_1)
.connectTimeout(Duration.ofSeconds(10))
.build();

public static void main(String[] args) throws IOException, InterruptedException {
// Obtener 3 citas
HttpRequest citasRequest = HttpRequest.newBuilder()
.uri(URI.create("https://api.breakingbadquotes.xyz/v1/quotes/3"))
.build();

HttpResponse<String> citasResponse = httpClient.send(citasRequest,
HttpResponse.BodyHandlers.ofString());
System.out.println(citasResponse.body());
System.out.println("\n\n");

// Convertir la respuesta a JSONArray
JSONArray citasArray = JsonParser.parseString(citasResponse.body()).getAsJsonArray();

// Procesar cada cita
for (int i = 0; i < citasArray.size(); i++) {
JsonObject citaObject = citasArray.get(i).getAsJsonObject();
String citaOriginal = citaObject.get("quote").getAsString();
String author = citaObject.get("author").getAsString();
}
```

```
// Traducir la cita al español
String citaTraducida = translateText(citaOriginal);
// Mostrar resultados
System.out.println("Autor: " + author);
System.out.println("Cita: " + citaOriginal);
System.out.println("Traducción: " + citaTraducida);
System.out.println();
}

}

private static String translateText(String text) throws IOException, InterruptedException {
// Codificar el texto para URL
String encodedText = URLEncoder.encode(text, StandardCharsets.UTF_8);
// Crear la petición a Google Translate API
HttpRequest request = HttpRequest.newBuilder()
.uri(URI.create("https://translation.googleapis.com/language/translate/v2?
target=es&key=AIzaSyFDn7L2OEP5xsQbdk80qXwQhCfNDi1D8&q=" + encodedText))
.setHeader("User-Agent", "Java 17 HttpClient Bot")
.build();

HttpResponse<String> response = httpClient.send(request, HttpResponse.BodyHandlers.ofString());

// Extraer el texto traducido de la respuesta JSON
JsonObject responseJson = JsonParser.parseString(response.body()).getAsJsonObject();
JsonObject data = responseJson.getAsJsonObject("data");
JsonArray translations = data.getAsJsonArray("translations");
String translatedText = translations.get(0).getAsJsonObject().get("translatedText").getAsString();

return translatedText;
}
}
```

Captura de pantalla:

```
mikles64@mikles64:~/Documentos/Distribuidos/Clase23$ javac -cp .:gson-2.10.1.jar HttpClientSynchronous.java
mikles64@mikles64:~/Documentos/Distribuidos/Clase23$ java -cp .:gson-2.10.1.jar HttpClientSynchronous
[{"quote": "We're all on the same page. The one that says, if I can't kill you, you'll sure as shit wish you were dead.", "author": "Jesse Pinkman"}, {"quote": "Yo, yo yo, 148-3 to the 3 to the 6 to the 9, representing the ABQ, what up biatch? Leave it at the tone.", "author": "Jesse Pinkman"}, {"quote": "I do not believe fear to be an effective motivator. I want investment. For now, I'm simply interested in time frame.", "author": "Gustavo Fring"}]

Autor: Jesse Pinkman
Cita: We're all on the same page. The one that says, if I can't kill you, you'll sure as shit wish you were dead.
Traducción: Estamos todos de acuerdo. El que dice: si no puedo matarte, seguro que desearás estar muerto.

Autor: Jesse Pinkman
Cita: Yo, yo yo, 148-3 to the 3 to the 6 to the 9, representing the ABQ, what up biatch? Leave it at the tone.
Traducción: Yo, yo, yo, 148-3 elevado a 3 elevado a 6 elevado a 9, representando el ABQ, ¿qué pasa, zorra? Déjalo en el tono.

Autor: Gustavo Fring
Cita: I do not believe fear to be an effective motivator. I want investment. For now, I'm simply interested in time frame.
Traducción: No creo que el miedo sea un motivador eficaz. Quiero inversión. Por ahora, simplemente me interesa el plazo.

mikles64@mikles64:~/Documentos/Distribuidos/Clase23$
```