

RestTemplate HTTP Methods Example Code

```
import org.springframework.http.ResponseEntity;

import org.springframework.web.client.RestTemplate;


import java.util.HashMap;

import java.util.Map;


public class RestTemplateHttpMethodsExample {


    public static void main(String[] args) {

        RestTemplate restTemplate = new RestTemplate();

        String baseUrl = "https://jsonplaceholder.typicode.com/posts";


        // 1. GET Request

        String getUrl = baseUrl + "/1";

        ResponseEntity<String> getResponse = restTemplate.getForEntity(getUrl,
String.class);

        System.out.println("GET Response: " + getResponse.getBody());


        // 2. POST Request

        String postUrl = baseUrl;

        Map<String, String> postRequest = new HashMap<>();

        postRequest.put("title", "foo");

        postRequest.put("body", "bar");

        postRequest.put("userId", "1");
```

```
        ResponseEntity<String> postResponse = restTemplate.postForEntity(postUrl,
postRequest, String.class);

        System.out.println("POST Response: " + postResponse.getBody());

// 3. PUT Request

String putUrl = baseUrl + "/1";

Map<String, String> putRequest = new HashMap<>();

putRequest.put("id", "1");

putRequest.put("title", "foo updated");

putRequest.put("body", "bar updated");

putRequest.put("userId", "1");

restTemplate.put(putUrl, putRequest);

System.out.println("PUT completed");

// 4. DELETE Request

String deleteUrl = baseUrl + "/1";

restTemplate.delete(deleteUrl);

System.out.println("DELETE completed");

// 5. PATCH Request (for partial updates, requires external library support in
RestTemplate)

// Note: RestTemplate does not support PATCH directly. Use WebClient for better
support.

// 6. Exchange (Generic Method)

// You can use exchange() to specify any HTTP method along with headers and
body.
```

```
String exchangeUrl = baseUrl + "/1";

    ResponseEntity<String> exchangeResponse = restTemplate.exchange(exchangeUrl,
org.springframework.http.HttpMethod.GET, null, String.class);

    System.out.println("Exchange (GET) Response: " + exchangeResponse.getBody());

}

}
```