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1  =====TestRestTemplate.java=====
   =====
2  package com.ameya.test;
3
4  import java.util.HashMap;
5  import java.util.List;
6  import java.util.Map;
7
8  import org.springframework.core.ParameterizedTypeReference;
9  import org.springframework.http.HttpHeaders;
10 import org.springframework.http.HttpMethod;
11 import org.springframework.http.ResponseEntity;
12 import org.springframework.web.client.RestTemplate;
13
14 import com.ameya.models.Topic;
15
16 public class TestRestTemplate {
17
18     public static void main(String[] args) {
19         final String getByIdUri="http://localhost:9001/topics/{id}";
20         final String postUri="http://localhost:9001/topics/create";
21         final String getAllUri="http://localhost:9001/topics";
22
23         RestTemplate restTemplate=new RestTemplate();
24
25         Map<String,Integer> params=new HashMap<>();
26         params.put("id", 102);
27         String strTopic=restTemplate.getForObject(getByIdUri,String.class,params);
28         System.out.println("String => "+strTopic);
29
30         System.out.println("-----");
31         Topic topic=restTemplate.getForObject(getByIdUri,Topic.class,params);
32         System.out.println("Topic => "+topic);
33
34         System.out.println("-----");
35         ResponseEntity<Topic> topicResponse=restTemplate.getForEntity(getByIdUri,
36 Topic.class,params);
37         Topic topic1=topicResponse.getBody();
38         System.out.println(topic1);
39
40         System.out.println("-----");
41
42         Topic newTopic=new Topic(104,"Spring Boot","Introducing Spring Boot 2 Days");
43
44         String postResult=restTemplate.postForObject(postUri,newTopic,String.class);
45         System.out.println("Result => "+postResult);

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45      System.out.println("-----");
46      ResponseEntity<List<Topic>>
response=restTemplate.exchange(getAllUri,HttpMethod.GET,null,
47          new ParameterizedTypeReference<List<Topic>>({});
48      List<Topic>topics=response.getBody();
49      for(Topic t : topics) {
50          System.out.println(t);
51      }
52      System.out.println("-----");
53
54      HttpHeaders headers1=response.getHeaders();
55      System.out.println("Headers1 => "+headers1);
56
57      HttpHeaders headers2=topicResponse.getHeaders();
58      System.out.println("Headers2 => "+headers2);
59  }
60
61 }
62
```