# Handling PUT Requests

# **Assignment: Implement AppController to Send PUT Request**

## **Objective**

Your task is to implement a Spring Boot REST API controller named AppController that sends a PUT request to an external API using RestTemplate. Your implementation should pass all functional and structural tests.

#### **Provided Files**

- 1. ApiDataUpdaterApplication.java: Spring Boot main class.
- 2. AppConfig.java: Configuration class providing a RestTemplate bean.
- 3. Blank AppController.java: You need to implement this file.
- 4. Pre-written test cases (ApiControllerTest) to validate your implementation.

#### **Task Details**

- 1. Class must be annotated with RestController annotation.
- 2. Constructor-based injection for RestTemplate must be used.
- 3. Implement a method named sendPutRequest of type public.
- 4. Method must be annotated with PUT type with value as /updateResource.
- 5. Method must accept two parameters:
  - request parameter named apiUrl using annotation.
  - request body named requestData using annotation.
- 6. Method must return String as "Data to update: " + requestData + "\nResponse from API: " + response.
- 7. Use RestTemplate.exchange(apiUrl, HttpMethod.PUT, entity, String.class) to send a PUT request to the provided API URL and return the response.

**Note:** You can use the endpoint **https://jsonplaceholder.typicode.com/posts/1** in Postman and pass it into the **127.0.0.1/updateResource** URL parameter for testing with body as:

```
{
"name": "John Doe"
"email": "john.doe@example.com"
}
```

## **Execution Steps to Follow**

- All actions like build, compile, running application, running test cases will be through Command Terminal.
- 2. To open the command terminal the test takers need to go to the Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal.
- 3. cd into your backend project folder.
- 4. To build your project use command:

mvn clean package -Dmaven.test.skip

5. To launch your application, move into the target folder (cd target). Run the following command to run the application:

java -jar <your application jar file name>

- To test any Restful application, the last option on the left panel of IDE, you can find
   ThunderClient, which is the lightweight equivalent of POSTMAN. Please use 127.0.0.1 instead
   of localhost to test rest endpoints.
- 7. Mandatory: Before final submission run the following command:

mvn test

8. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.