## TOC

# LAB : Specify Request body and Response HTTP status code/body in methods

In this lab you will -

a) Specify Request body

b) Specify Response HTTP Status code and body

c) Specify HTTP Status code and body for Error Responses

## Step 1 – Specify Request body for POST and PATCH methods

### POST method

1. For Collection resources, we have POST methods defined. In the POST method, we are expecting request body as it will be used to create the resource. So we need to define request body for POST method of Registrations (/registrations), Hotels(/hotels) and Bookings (/bookings)

2. In RAML specs, specify the request body for the POST method of Registrations resource (/registrations) as follows :-

   a.
   ```
   /registrations:
     get:
     post:
       body:
   ```

3. Specify the request body for the POST method of Hotels resource (/hotels) and Bookings Resource (/bookings) in the same way.

### PATCH method

1. For Nested resources, we have PATCH methods defined. In the PATCH method, we are expecting request body as it will be used to update the resource. So we need to define request body for PATCH method of Registration (/registrations/{registrationId}), Hotel (/hotels/{hotelId}) and Booking (/bookings/{bookingId}).

2. In RAML specs, specify the request body for the PATCH method of Registration resource (/registrations/{registrationId) as follows :-

   ```
   /registrations:
     get:
     post:
       body:
     /{registrationId}:
       get:
       delete:
       patch:
         body:
   ```

3. Specify the request body for the PATCH method of Hotel (/hotels/{hotelId}) and Booking (/bookings/{bookingId}) in the same way

Congratulations, you have completed step 1

## Step 2 – Specify Response HTTP Status code and body

Following HTTP Status codes are chosen for the specified methods :-

```
200 OK - for GET
201 Created - for POST
204 No Content - for PATCH
200 OK - for DELETE
```

### GET method of all resources

1. We will Specify 200 HTTP status code with body in the response of GET method. GET method is specified in all the resources.

2. For Registrations resource (/registrations) GET method, response with HTTP status code 200 is specified as shown below (specify **responses:** and under it **200:** ). Also specify **body:** under the 200 HTTP status code as we intend to return response body along with this HTTP status code-

   a.
   ```
   /registrations:
     get:
       responses:
         200:
           body:
   ```

3. Do the same for the GET method of all the resources.

### POST method of Collection Resources

1. We will Specify HTTP status code **201** in the response of POST method. POST method is defined for collection Resources. We won't be returning body in the response along with 201 HTTP status code.

2. For Registrations resource (/registrations) POST method, response with HTTP status code **201** is specified as shown below (specify **responses:** and under it **201:** ).

   a.
   ```
   /registrations:
     get:
       responses:
         200:
           body:
     post:
       body:
       responses:
         201:
   ```

b. Notice the indentation and make sure you take care of indentation

3. For Hotels resource (/hotels) and Bookings resource (/bookings), specify the response of POST method in the same way.

### DELETE method of Nested resources

1. We will Specify 200 HTTP status code and body in the response of Delete method. Delete method is defined for Nested resources.

2. For Registration resource (/registrations/{registrationId}) DELETE method, response with HTTP status code **200** is specified as shown below (specify **responses:** and under it **200:** ). We will also be returning response body so **body:** is also specified-

```
/registrations:
  get:
    responses:
      200:
        body:
  post:
    body:
    responses:
      201:
  /{registrationId}:
    get:
      responses:
        200:
          body:
    delete:
      responses:
        200:
          body:
    patch:
      body:
```

a.

3. For Hotel resource (/hotels/{hotelId}) and Booking resource (/bookings/{bookingId}), specify the response body for DELETE method in the same way.

### PATCH method of Nested Resources

1. We will Specify **204** HTTP status code in the response section of Patch method. Patch method is defined for Nested resources.

2. For Registration resource (/registrations/{registrationId}) PATCH method, response with HTTP status code **204** is specified as shown below (specify **responses:** and under it **204:** ). We won't be returning response body with this HTTP status code of 204-

```
/registrations:
  get:
    responses:
      200:
        body:
  post:
    body:
    responses:
      201:
  /{registrationId}:
    get:
      responses:
        200:
          body:
    delete:
      responses:
        200:
          body:
    patch:
      body:
      responses:
        204:
```

3. For Hotel resource (/hotels/{hotelId}) and Booking resource (/bookings/{bookingId}), specify the response body for PATCH method in the same way.

**Congratulations, you have completed step 2.**

## Step 3 – Specify HTTP Status code and body for Error Responses

### HTTP Status code 404 Not Found for GET and DELETE methods

1. We will Specify **404** HTTP status code in the response section of GET method of all resources and DELETE method of Nested Resources

2. For Registration resource (/registrations/{registrationId}) GET and DELETE methods, response with HTTP status code 404 is specified as shown below ( we will also be returning response body with this HTTP status code):

```
/registrations:
  get:
    responses:
      200:
        body:
      404:
        body:
  post:
    body:
    responses:
      201:
  /{registrationId}:
    get:
      responses:
        200:
          body:
        404:
          body:
    delete:
      responses:
        200:
          body:
        404:
          body:
```

3. For all other resources – GET and DELETE methods, please mention the HTTP status code 404 with body. As mentioned above GET method is available in all resources and DELETE method is specified only in nested resources, please make changes accordingly.

4. Please make sure that indentation is proper as shown in the screenshot above

### HTTP Status code 500 for POST , PATCH

1. We will Specify **500** HTTP status code in the response section of **POST** method of collection resources and **PATCH** method of Nested Resources

2. For Registrations resource (/registrations) POST  method, response with HTTP status code 500 is specified as shown below ( we will also be returning response body with this HTTP status code):

```
/registrations:
  get:
    responses:
      200:
        body:
      404:
        body:
  post:
    body:
    responses:
      201:
      500:
        body:
```

3.  For Registration resource (/registrations/{registrationId}) PATCH method, response with HTTP status code 500 is specified as shown below ( we will also be returning response body with the HTTP status code):

```
21    /{registrationId}:
22      get:
23        responses:
24          200:
25            body:
26          404:
27            body:
28      delete:
29        responses:
30          200:
31            body:
32          404:
33            body:
34      patch:
35        body:
36        responses:
37          204:
38          500:
39            body:
```

4.  For all other resources – POST and PATCH methods, please mention the HTTP status code 500 with body. Please make sure indentation is proper as shown in the screenshot above.

**Congratulations, you have completed step 3.**

Congratulations!! You have completed this exercise.