Author: Wiktor Markowicz

Source: <a href="https://reqres.in">https://reqres.in</a>

## Testing API in Postman

I chose three endpoints:

- /api/users
- /api/login
- /api/register

with different HTTP method like GET, POST, PUT, DELETE.

I defined in variables of my collection one variable:

baseUrl = https://regres.in

To get a valid response from the server, every request requires an API key in the header:

Header: "API-Key: regres-free-v1"

# Test cases

#### Test 1: Get all users

Method: GET

Purpose of the test: Retrieve the list of all users in the system

Endpoint: /api/users (see Figure 1)

Input: none

Expected result: HTTP Status Code: 200 - Success

Actual result: as expected

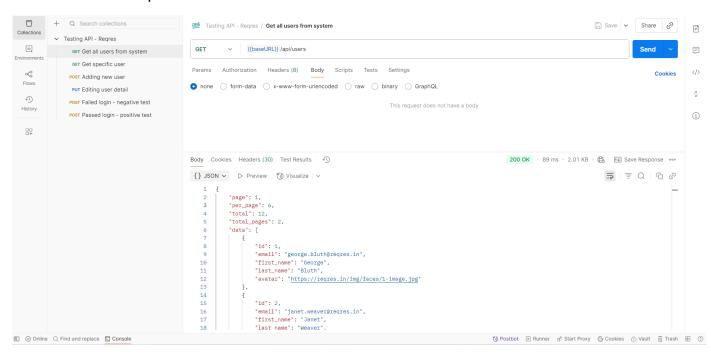


Figure 1 Get all users from the system

*Description:* This endpoint returns a list of users available in the system, including fields such as: id, email, first\_name, last\_name, and avatar.

#### Test 2: Get user by ID (positive)

Method: GET

Purpose of the test: Retrieve information about a specific user by ID

Endpoint: /api/users/{id} (see Figure 2)

Input: none

Expected result: HTTP Status Code: 200 - Success

Actual result: as expected

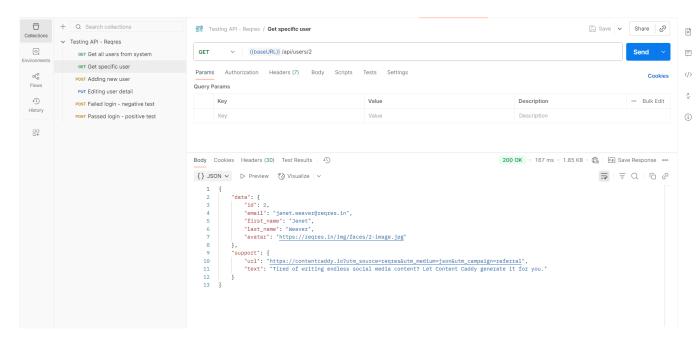


Figure 2 Get particular user

*Description:* It works similar to previous endpoint, but the difference is that the user must provide the ID as a path parameter at the end of the URL. It returns information such as id, email, first\_name, last\_name, avatar.

#### Test 3: Get user by id (negative)

Method: GET

Purpose of the test: Attempt to retrieve information about a user that does not exist

Endpoint: /api/users/{id} (see Figure 3)

Input: none

Expected result: HTTP Status Code: 404 - Not Found

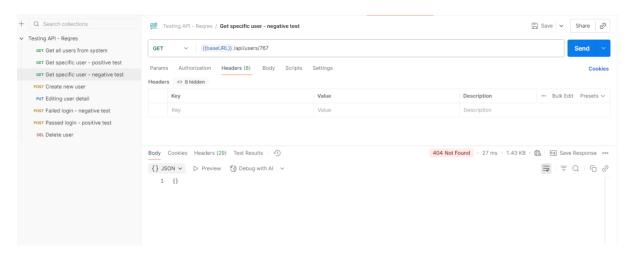


Figure 3 Get particular user, which isn't in the system

*Description:* If the ID provided in the path does not exist, the API responds with HTTP 404 and no content.

### Test 4: Register user

Method: POST

Purpose of the test: Creating a user account

Endpoint: /api/register (see Figure 4)

```
Input:
{
    "email": "eve.holt@reqres.in",
    "password": "pistol"
}
```

*Expected result:* HTTP Status Code: 200 – Success. The user get an id and generated token in the response.

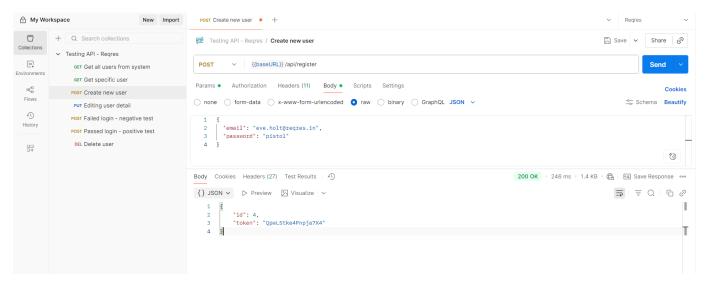


Figure 4 Relevant data that will enable you to create an account

Description: The endpoint works only for a few predefined accounts, which are defined in the system. You can't enter any email address. If you try give the data, which are not in the system, Postman throws status code: 400 (Bad request)

```
Body Cookies Headers (26) Test Results | 1.39 KB | 223 ms | 1.39 KB |
```

Figure 5 Response of API, if user uses data which aren't in the system

#### Test 5: Edit user detail – positive test

Method: PUT

Purpose of the test: Modification of user's detail

Endpoint: /api/users/{id} (see Figure 6)

Input:

}

{
 "job": "QA Manual Engineer"

Expected result: HTTP Status Code: 200 – Success. User data have been updated.

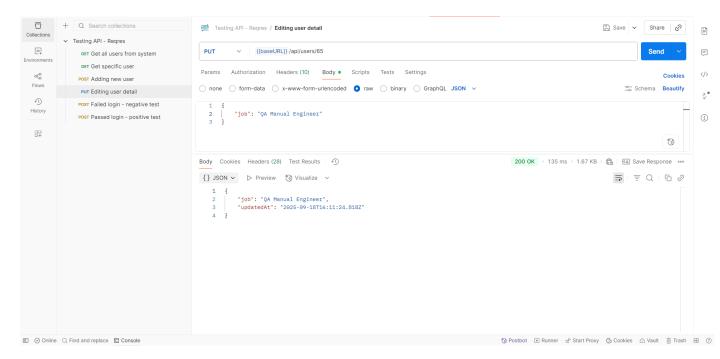


Figure 6 Editing user detail

*Description:* In RAW, in JSON format, specify the occupation for which the user wishes to update the relevant field. When the update is successful, the response will show the job title and the time of the update.

## Test 6: Edit user detail – Sending empty body in PUT request.

Method: PUT

Purpose of the test: Modification of user's detail when the request body is empty

Endpoint: /api/users/{id} (see Figure 7)

Input: none

Expected result: API should still return 200 (success) and provide an updatedAt field.

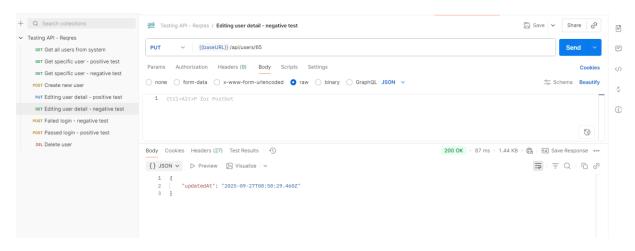


Figure 7 Editing user detail – empty body

*Description:* Unlike many APIs, reqres.in accepts empty body for PUT requests and still responds with 200. This is a predefined mock behavior of the demo API.

### Test 7: Login – positive test

Method: POST

Purpose of the test: Verify successful login with valid credentials

Endpoint: /api/login (see Figure 8)

Input:

{

}

"email": "eve.holt@reqres.in",

"password": "cityslicka"

\_ .

Expected result: HTTP Status Code: 200 – Success. Token has been created.

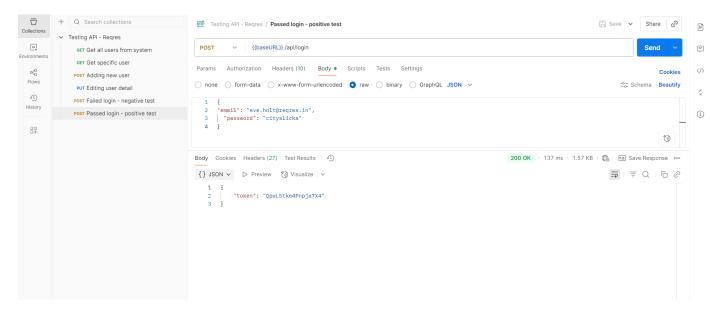


Figure 8 Logging - positive test

*Description:* The login endpoint only works for predefined test accounts. Other email/password combinations are rejected.

#### Test 8: Login – negative test

Method: POST

Purpose of the test: Verify login fails when only the email is provided without a password

```
Endpoint: /api/login (see Figure 9)
Input:
{
    "email": "eve.holt@reqres.in"
}
```

*Expected result:* HTTP Status Code: 400 – Bad Request. Token isn't generated. The user receives an appropriate message about the missing password.

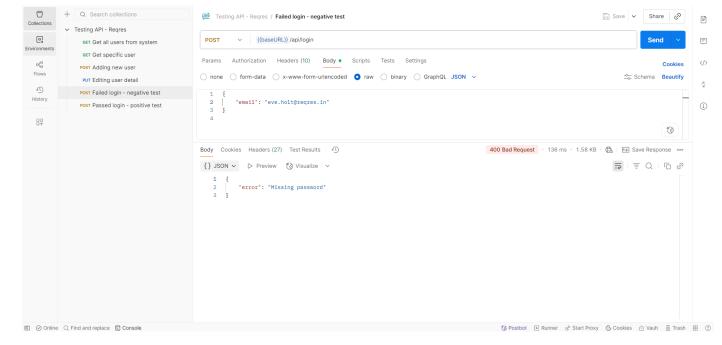


Figure 9 Logging - negative test

### Test 9: Delete user from system

Method: DELETE

Purpose of the test: Delete a user account by ID

Endpoint: /api/users/{id} (see Figure 10)

Input: none

Expected result: HTTP Status Code: 204 – Success.

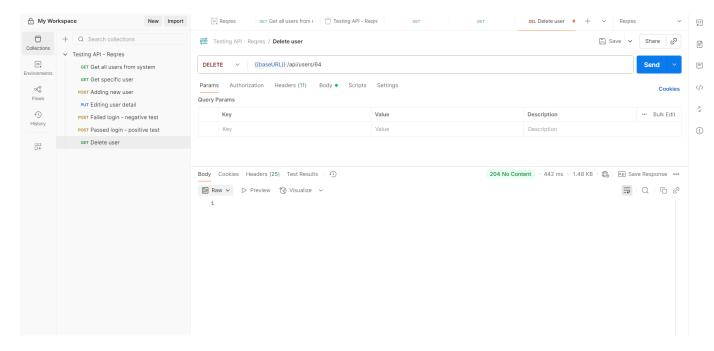


Figure 10 Delete user

*Description:* This endpoint deletes the specified user. Even if the user does not exist, the API still returns HTTP 204 with no content.