GLA 5: HTTP Requests

OBJECTIVE

Students will use their JavaScript and/or jQuery knowledge to create a dynamic web page to display data obtained from an API and explore the functionalities of GET, POST, PUT, and DELETE HTTP requests.

TASKS

Students must use data available on the JSONPlaceholder API.
Visit https://jsonplaceholder.typicode.com/guide/ for more information.

1. GET user data. (5 marks)
Fetch all users' information from this URL: https://jsonplaceholder.typicode.com/users/
You may store the information any way you want. Data must be fetched via JavaScript code.

2. Display the fetched user data on the browser. (5 marks)
Using the user data fetched in step 1, create HTML elements and display the following information for each user: "name", "email", "city", "company name". Display the elements with clear distinction between users. (Examples: Wrap each user inside of a container with a border/create individual user cards/display one result per line).

3. Using POST, create a new user. (5 marks)
Using Postman, send a POST request to create a new user.
Use the following information in the request body (use raw JSON):
```
{
   "name": "Android",
   "email": "Android18@dbz.com",
   "city": "Toki Toki",
   "company": {
      "name": "Capsule Corp"
   }
}
```
Take a screenshot of the Postman screen. Include request and response bodies (JSON).

4. Using PUT, edit a user. (5 marks)
Using Postman, send a PUT request to update the user whose "id" is 5. Change this user's name to your own name. Tip: each user's URI is formatted as:
https://jsonplaceholder.typicode.com/users/id (replace id with the id number)
Take a screenshot of the Postman screen. Include request and response bodies (JSON).

School of Technology

5. Using DELETE, delete a user. (5 marks)

Using your JavaScript file and the fetch method, send a DELETE request to delete the user with id=10.

- Declare the id in a variable (const id=10) and pass it to your URI using the template strings. (Ex.: `${id}`). (2 marks)
  https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Template_literals
- If the response code equals to 200 or 204, log the message `User ${id} successfully deleted!`. (2 marks)
- If the response code is anything other than those, display an error message on the console. (1 mark)

Grading

If your code does not work, you won't receive marks for that step. Your GLA will be graded based on a total of 25 marks.

Submission

Submit your GLA folder inside of a .zip file to GLA 5's Dropbox.

Include the Postman screenshots and your code. The screenshots must show:

- The HTTP method used
- The API endpoint (URI or URL)
- Request Body
- Response Body
- Status Code, Time, and Size.

School of Technology