Marivellisse Garcia

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Task 1 - API Consumption via Command Line (curl)

1. Objective

This task focuses on learning how to consume data from a RESTful API using the command-line tool 'curl'. The goal is to understand how to perform HTTP requests, interpret API responses, and utilize curl options.

2. Installing and Verifying curl

To verify if curl is installed, run:

```
curl --version
```

This command outputs the installed curl version and supported protocols. If curl is not installed, install it using your system's package manager (e.g., apt for Debian/Ubuntu, brew for macOS).

3. Fetching a Web Page

Command:

```
curl http://example.com
```

This fetches the raw HTML content of the specified web page.

4. Fetching Data from JSONPlaceholder API

Command:

```
curl https://jsonplaceholder.typicode.com/posts
```

This command retrieves a JSON array containing posts from the public JSONPlaceholder API.

5. Fetching Only Headers

Command:

```
curl -I https://jsonplaceholder.typicode.com/posts
```

This command retrieves only the headers of the response. Useful for checking status codes and metadata.

6. Sending a POST Request

Command:

```
curl -X POST -d "title=foo&body=bar&userId=1"
https://jsonplaceholder.typicode.com/posts
```

This command sends a POST request to create a new post. JSONPlaceholder simulates creation and returns the post with an id of 101.

7. Summary

In this task, we used curl to interact with a REST API. We performed GET and POST requests, fetched headers, and reviewed the API's responses. These operations demonstrated how curl can be used for testing and debugging APIs efficiently.