**ITNERVIEW QUESTION**

1. **How many kinds of HTTP methods? The meaning of each one?**

* **GET**: Request data
* **POST**: Send new data
* **PUT**: Update data
* **DELETE**: Delete data
* **HEAD**: Get header information
* **OPTIONS**: Get available communications options
* **PATCH**: Update a part of the data
* **TRACE**: Check the request
* **CONNECT**: Establish a two-way connection

These HTTP methods provide different ways to interact with web resources, supporting CRUD (Create, Read, Update, Delete) operations.

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1. **What elements do you test with an API?**

* HTTP Requests and Responses:
  + HTTP method (GET, POST, PUT, DELETE, etc.)
  + HTTP status codes (200 OK, 404 Not Found, 500 Internal Server Error, etc.)
  + Request and response headers
  + Request and response content (body)
* Data and Formatting:
  + Data formats (JSON, XML, form-data, etc.)
  + Data structure and content
  + Data validity and integrity
* Authentication and Authorization:
  + Authentication methods (API keys, OAuth, JWT, etc.)
  + Access rights and permissions.
* Performance and Stability:
  + Response time
  + Error rate
  + Availability and scalability
* Documentation and Support:
  + API documentation
  + Code Samples and examples
  + Installation and usage guides

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1. **Why do people need to test API when people done UI testing before?**

* It is necessary to test the API even after testing the UI because:
  + API and UI are two independent layers, an error in the API may not affect the UI and vice versa.
  + The API can be reused for many other applications, so it is necessary to ensure the API is functioning stably.
  + Testing the API helps evaluate the performance, latency, and error rate of the business logic.
  + Changes to the UI do not affect the API and vice versa.
  + Testing the API ensures good integration with other systems.
* In summary, testing the API is necessary to ensure the quality and reusability of the business logic, independent of the user interface.

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