

# ITINTERVIEW 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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## 2. 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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### **3. 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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