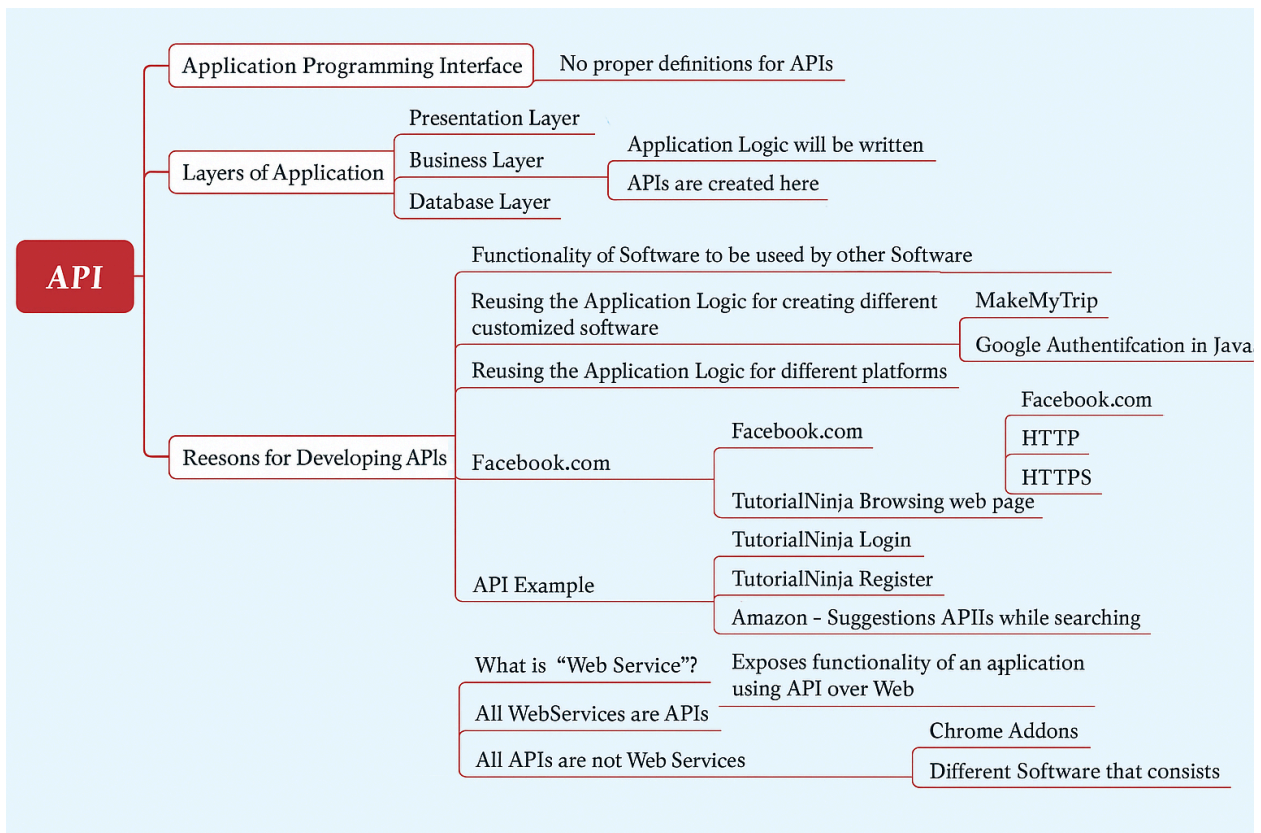


ChatGPT response for “make this image more clarity”



**1. Which of the following is NOT typically a layer of an application?**

- A. Presentation Layer
- B. Business Layer
- C. Database Layer
- D. Networking Layer

**Answer:** D. Networking Layer

Write, press 'space' for AI, '/' for commands...

**2. One key reason to perform API testing is to:**

- A. Ensure the API works independently of the UI
- B. Check the alignment of text on the page
- C. Reduce the size of the application
- D. Improve screen resolution

**Answer:** A. Ensure the API works independently of the UI

**3. What is a common advantage of using APIs in software development?**

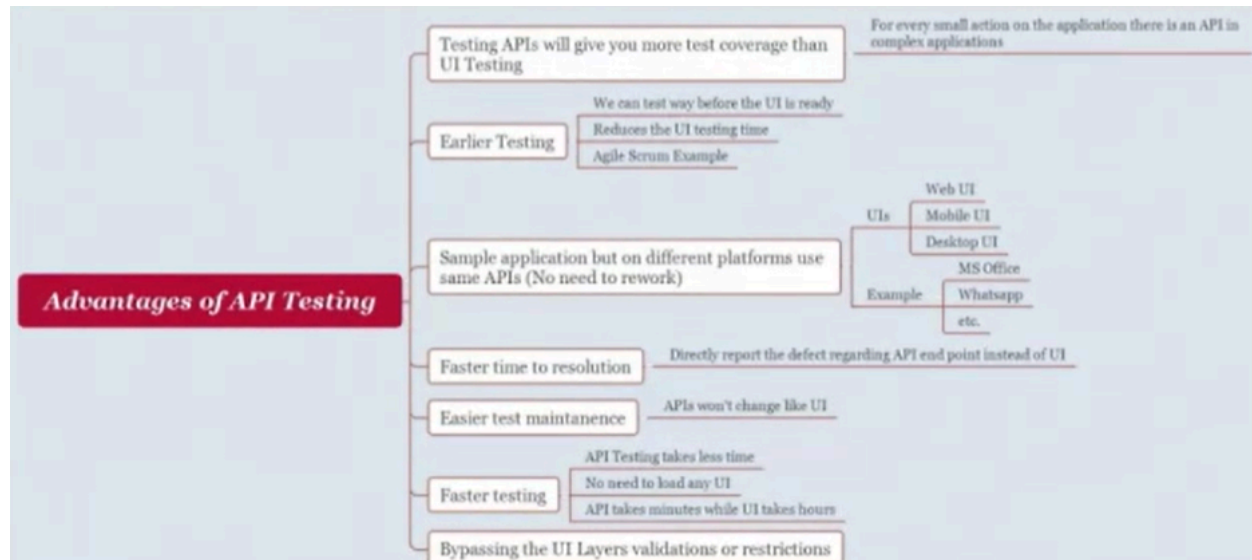
- A. They slow down development
- B. They help in integrating with external services
- C. They reduce security
- D. They increase application size

**Answer:** B. They help in integrating with external services

**4. In a typical application architecture, how many main layers are there?**

- A. 2
- B. 3
- C. 4
- D. 5

**Answer:** B. 3



## 1xx – Informational

These are rare in APIs. They indicate that a request was received and the process is continuing.

- 100 Continue – Request looks good so far; continue sending.
- 101 Switching Protocols – Server is switching protocols (e.g., HTTP to WebSocket).

## 2xx – Success

The request was successfully received, understood, and accepted.

- 200 OK – The request was successful.
- 201 Created – A resource was successfully created.
- 202 Accepted – Request accepted, but not yet processed.
- 204 No Content – Success, but nothing to return (e.g., DELETE request).

## 3xx – Redirection

The client must take additional action to complete the request.

- 301 Moved Permanently – Resource has been permanently moved.
- 302 Found – Resource temporarily located elsewhere.
- 304 Not Modified – Client can use cached version.

## ● 4xx – Client Errors

The request contains bad syntax or cannot be fulfilled.

- **400 Bad Request** – Malformed syntax or invalid request.
- **401 Unauthorized** – Authentication required or failed.
- **403 Forbidden** – Authenticated but not allowed.
- **404 Not Found** – Resource doesn't exist.
- **405 Method Not Allowed** – HTTP method not supported.
- **409 Conflict** – Resource conflict (e.g., duplicate).
- **422 Unprocessable Entity** – Valid data, but semantically wrong (often in validation errors).
- **429 Too Many Requests** – Rate limiting kicked in.

## ● 5xx – Server Errors

The server failed to fulfill a valid request.

- **500 Internal Server Error** – Generic server error.
- **501 Not Implemented** – Method not supported.
- **502 Bad Gateway** – Invalid response from upstream server.
- **503 Service Unavailable** – Server is down or overloaded.
- **504 Gateway Timeout** – Upstream server failed to respond in time.

## HTTP

- Not secure
  - Info is sent as-is
  - Used for simple websites
- 

## HTTPS

- Secure
  - Info is **encrypted**
  - Used for **banking, shopping, logins, etc.**
- 

Just remember:

**"S" in HTTPS = Secure**

1. What does a 200 HTTP status code indicate in API testing?

- A. Resource not found
- B. Internal server error
- C. Request was successful
- D. Unauthorized access

 **Correct Answer:** C. Request was successful

---

2. What is the main difference between HTTP and HTTPS?

- A. HTTPS is slower than HTTP
- B. HTTP uses a secure SSL/TLS connection, HTTPS does not
- C. HTTPS encrypts data during transmission, HTTP does not
- D. HTTP is more secure than HTTPS

 **Correct Answer:** C. HTTPS encrypts data during transmission, HTTP does not

3. Which status code typically indicates that the requested resource was not found?

A. 200

B. 403

C. 404

D. 500

 **Correct Answer:** C. 404

---

4. In API testing, what does a 401 status code represent?

A. Request was successful

B. Unauthorized – Authentication is required

C. Forbidden – Server refuses to respond

D. Internal server error

 **Correct Answer:** B. Unauthorized – Authentication is required