

what are all the types of status code in postman api testing and its meaning

In **Postman API testing**, status codes are HTTP response codes returned by the server to indicate the result of a request. These codes follow the **HTTP standard** and are grouped into five major categories based on the **first digit** of the status code.

Here's a detailed breakdown of all **types of HTTP status codes** and their meanings:

✓ 1xx – Informational Responses

These indicate that the request was received and understood. They are provisional responses.

| Status Code | Meaning |
|--------------------------------|--|
| 100 Continue | The client should continue with the request. |
| 101 Switching Protocols | The server agrees to switch protocols. |
| 102 Processing | The server is processing the request, but no response is available yet (WebDAV). |

✓ 2xx – Success

These codes mean the request was successfully received, understood, and accepted.

| Status Code | Meaning |
|--|--|
| 200 OK | Request succeeded, and the server returned the requested data. |
| 201 Created | Resource successfully created (e.g., after a POST). |
| 202 Accepted | Request accepted but processing not complete. |
| 203 Non-Authoritative Information | Returned meta-information is from a third party. |

| | |
|----------------------------|---|
| 204 No Content | Request succeeded, but no content to return. |
| 205 Reset Content | Request succeeded, client should reset the document view. |
| 206 Partial Content | Partial GET request successful (used in range requests). |

3xx – Redirection

These codes indicate further action needs to be taken to complete the request.

| Status Code | Meaning |
|-------------------------------|--|
| 300 Multiple Choices | Multiple options for the resource. |
| 301 Moved Permanently | Resource has been permanently moved to a new URL. |
| 302 Found | Temporarily moved to a different URL. |
| 303 See Other | Response can be found under a different URL. |
| 304 Not Modified | Resource not modified; use cached version. |
| 307 Temporary Redirect | Temporarily redirect to another URL (same method). |
| 308 Permanent Redirect | Permanently redirect to another URL (same method). |

4xx – Client Errors

These indicate the client sent an invalid request.

| Status Code | Meaning |
|-------------------------|---|
| 400 Bad Request | The server couldn't understand the request due to bad syntax. |
| 401 Unauthorized | Authentication is required and has failed or not provided. |
| 403 Forbidden | Valid request, but server refuses to authorize it. |
| 404 Not Found | Requested resource could not be found. |

| | |
|--|---|
| 405 Method Not Allowed | The method is not allowed for the requested URL. |
| 406 Not Acceptable | Requested resource is not acceptable based on request headers. |
| 407 Proxy Authentication Required | Client must authenticate with a proxy. |
| 408 Request Timeout | The server timed out waiting for the request. |
| 409 Conflict | Request conflict with current state of the server. |
| 410 Gone | The resource is no longer available. |
| 411 Length Required | Content-Length header is missing. |
| 412 Precondition Failed | Preconditions in request headers failed. |
| 413 Payload Too Large | Request entity is too large. |
| 414 URI Too Long | Requested URI is too long for the server to handle. |
| 415 Unsupported Media Type | Media format of the request is not supported. |
| 417 Expectation Failed | Server cannot meet the requirements of the Expect request header. |
| 429 Too Many Requests | User has sent too many requests in a given amount of time. |

5xx – Server Errors

These codes indicate the server failed to fulfill a valid request.

| Status Code | Meaning |
|----------------------------------|---|
| 500 Internal Server Error | The server encountered an unexpected condition. |
| 501 Not Implemented | The server does not support the request method. |
| 502 Bad Gateway | Invalid response from the upstream server. |
| 503 Service Unavailable | Server is currently unavailable (overloaded or down). |
| 504 Gateway Timeout | Server didn't receive a timely response from the upstream server. |

505 HTTP Version Not Supported

HTTP version used in the request is not supported.

In Postman API Testing:

- You can **verify status codes** using test scripts like:

```
pm.test("Status code is 200", function () {  
    pm.response.to.have.status(200);  
});
```

- You often check:
 - 200 (OK) for GET
 - 201 (Created) for POST
 - 204 (No Content) for DELETE
 - 400, 401, 403, 404 for client error handling
 - 500 series for backend/server issues
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Would you like a **cheat sheet PDF** version of this table or examples with test validations in Postman?