**HTTP Status Codes Reference**

HTTP status codes are three-digit numbers returned by a server to indicate the result of a client’s request. They are grouped into five classes based on the first digit.

**1xx – Informational**

Meaning: The request has been received, and the process is continuing.

Typical Use: Rarely used in APIs, mostly in HTTP/1.1 communication.

|  |  |  |
| --- | --- | --- |
| Status Code | Meaning | Description |
| 100 | Continue | Client should continue with request. |
| 101 | Switching Protocols | Server switches protocols as requested by client. |
| 102 | Processing (WebDAV) | Server is processing the request but not finished. |

**2xx – Success**

Meaning: The request was successfully received, understood, and accepted.

|  |  |  |
| --- | --- | --- |
| Status code | Meaning | Description |
| 200 | Ok | Standard response for successful GET/POST requests. |
| 201 | Created | Request successful and a new resource was created. |
| 202 | Accepted | Request accepted but not yet processed. |
| 204 | No content | Request successful but no content returned. |

**3xx – Redirection**

Meaning: Client must take additional action to complete the request.

|  |  |  |
| --- | --- | --- |
| Status code | Meaning | Description |
| 301 | Moved Permanently | Resource has permanently moved to a new URL |
| 302 | Found | Resource temporarily located at a different URL |
| 304 | Not Modified | Resource has not been modified since last request. |

**4xx – Client Error**

Meaning: The request contains bad syntax or cannot be fulfilled by the client.

|  |  |  |
| --- | --- | --- |
| Status code | Meaning | Description |
| 400 | Bad Request | Server cannot process the request due to client error. |
| 401 | Unauthorized | Authentication required or failed. |
| 403 | Forbidden | Client is authenticated but does not have permission. |
| 404 | Not found | Requested resource does not exist. |
| 405 | Method not allowed | HTTP method not allowed for the resource. |
| 415 | Unsupported media type | Server does not support the format of the request body. |
| 429 | Too many requests | Client sent too many requests in a given time. |

**5xx – Server Error**

Meaning: The server failed to fulfil a valid request.

|  |  |  |
| --- | --- | --- |
| Status code | Meaning | Description |
| 500 | Internal Server Error | Generic server error: something went wrong. |
| 501 | Not Implemented | Server does not recognize or cannot perform the request method |
| 502 | Bad Gateway | Server received invalid response from upstream server. |
| 503 | Service Unavailable | Server temporarily overloaded or down. |
| 504 | Gateway Timeout | Server did not get a timely response from upstream server. |

**Common Types of Assertions**

|  |  |  |
| --- | --- | --- |
| **Assertion type** | **Purpose** | **Example code** |
| Status Code | Check if response status is correct | pm.response.to.have.status(200); |
| Response Time | Ensure response is fast enough | pm.expect(pm.response.responseTime).to.be.below(1000); |
| Header Check | Validate presence or value of headers | pm.response.to.have.header(\"Content-Type\"); |
| Body Content | Check specific values in JSON response | pm.expect(jsonData.name).to.eql(\"John\"); |
| Content-Type Check | Ensure correct content type | pm.response.to.have.header(\"Content-Type\", \"application/json\"); |
| Array Length | Validate number of items in a list | pm.expect(jsonData.length).to.eql(5); |