

# Sample API Test Cases for API Testing



- Verify that the API response status code is 200 OK.
- Verify that the API response is in the expected format (e.g., JSON, XML).
- Verify that the API response contains all the expected fields.
- Verify that the API response contains the correct data for each field.
- Verify that the API response time is within acceptable limits.
- Verify that the API request parameters are correctly passed to the API.
- Verify that the API request method is correct (e.g., GET, POST, PUT, DELETE).
- Verify that the API endpoint URL is correct.
- Verify that the API response headers are correct.
- Verify that the API response payload size is within acceptable limits.



- Verify that the API returns an error message if the request is malformed.
- Verify that the API returns an error message if the authentication fails.
- Verify that the API returns an error message if the request payload is missing.
- Verify that the API returns an error message if the requested resource does not exist.
- Verify that the API returns an error message if the requested resource is not authorized.
- Verify that the API returns an error message if the request payload exceeds the allowed limit.
- Verify that the API returns an error message if the request payload contains invalid data.



- Verify that the API returns an error message if the request method is not allowed for the resource.
- Verify that the API returns a success message if the resource is created successfully.
- Verify that the API returns a success message if the resource is updated successfully.
- Verify that the API returns a success message if the resource is deleted successfully.
- Verify that the API returns a success message if the resource is retrieved successfully.
- Verify that the API returns the correct resource based on the provided resource identifier.



- Verify that the API returns the correct resource based on the provided search parameters.
- Verify that the API response contains the correct pagination information.
- Verify that the API response contains the correct sorting order based on the provided sort parameter.
- Verify that the API response contains the correct filtering information based on the provided filter parameters.
- Verify that the API returns the correct results when searching for a partial string.
- Verify that the API returns the correct results when searching for a case-insensitive string.
- Verify that the API returns the correct results when searching for a string with special characters.



- Verify that the API returns the correct results when searching for a string with multiple words.
- Verify that the API returns the correct results when searching for a string with a combination of letters and numbers.
- Verify that the API returns the correct results when searching for a string with spaces.
- Verify that the API returns the correct results when searching for a string with non-ASCII characters.
- Verify that the API returns the correct results when searching for a string with mixed character types (e.g., letters, numbers, symbols).
- Verify that the API returns the correct results when searching for a string with HTML tags.



- Verify that the API returns the correct results when searching for a string with escape characters.
- Verify that the API response contains the correct resource representation based on the provided content type.
- Verify that the API response is compressed when the client sends a request with the "Accept-Encoding" header set to "gzip."
- Verify that the API response is not compressed when the client does not send the "Accept-Encoding" header.
- Verify that the API response is not compressed when the client sends a request with the "Accept-Encoding" header set to a value other than "gzip."
- Verify that the API response contains the correct resource representation based on the specified language (e.g., English, Spanish, French).



- Verify that the API response contains the correct resource representation based on the specified locale (e.g., en-US, fr-FR).
- Verify that the API response contains the correct resource representation based on the specified time zone.
- Verify that the API response contains the correct resource representation when the resource contains nested objects or arrays.
- Verify that the API returns a response within a specified timeout period.
- Verify that the API handles concurrent requests correctly.
- Verify that the API returns a response with a custom HTTP header when a specific request header is sent.
- Verify that the API correctly handles file uploads and downloads.





- Verify that the API response contains the correct resource representation based on the specified currency.
- Verify that the API correctly handles rate limiting and returns the correct HTTP status code.
- Verify that the API correctly handles retries and returns the correct HTTP status code.
- Verify that the API correctly handles redirects and returns the correct HTTP status code.
- Verify that the API correctly handles cookies and returns the correct HTTP status code.
- Verify that the API correctly handles caching and returns the correct HTTP status code.
- Verify that the API correctly handles CSRF tokens and returns the correct HTTP status code.



- Verify that the API correctly handles cross-site scripting (XSS) attacks and returns the correct HTTP status code.
- Verify that the API correctly handles SQL injection attacks and returns the correct HTTP status code.
- Verify that the API correctly handles cross-site request forgery (CSRF) attacks and returns the correct HTTP status code.
- Verify that the API correctly handles input validation and returns the correct HTTP status code.
- Verify that the API correctly handles output encoding and returns the correct HTTP status code.
- Verify that the API correctly handles SSL/TLS certificates and returns the correct HTTP status code.
- Verify that the API correctly handles content negotiation and returns the correct HTTP status code.



- Verify that the API correctly handles authentication and authorization and returns the correct HTTP status code.
- Verify that the API correctly handles request rate limiting and returns the correct HTTP status code.
- Verify that the API correctly handles retry attempts and returns the correct HTTP status code.
- Verify that the API correctly handles timeouts and returns the correct HTTP status code.
- Verify that the API correctly handles network failures and returns the correct HTTP status code.
- Verify that the API correctly handles race conditions and returns the correct HTTP status code.
- Verify that the API correctly handles caching and returns the correct HTTP status code.



- Verify that the API correctly handles versioning and returns the correct resources for each version.
- Verify that the API correctly handles version negotiation and returns the correct HTTP status code.
- Verify that the API correctly handles content negotiation and returns the correct HTTP status code.
- Verify that the API correctly handles partial updates and returns the correct HTTP status code.
- Verify that the API correctly handles error conditions and returns the correct HTTP status code and error message.
- Verify that the API correctly handles various types of requests, such as GET, POST, PUT, DELETE, OPTIONS, HEAD, and PATCH.



- Verify that the API correctly handles various types of data, such as strings, numbers, dates, and binary data.
- Verify that the API correctly handles various types of authentication, such as basic authentication, token authentication, and OAuth.
- Verify that the API correctly handles various types of authorization, such as role-based.
- Verify that the API returns the correct HTTP status code for requests that are not supported (e.g., HTTP 405 Method Not Allowed).
- Verify that the API returns the correct HTTP status code for invalid requests (e.g., HTTP 400 Bad Request).
- Verify that the API returns the correct HTTP status code for unauthorized requests (e.g., HTTP 401 Unauthorized).



- Verify that the API returns the correct HTTP status code for forbidden requests (e.g., HTTP 403 Forbidden).
- Verify that the API returns the correct HTTP status code for resource not found (e.g., HTTP 404 Not Found).
- Verify that the API correctly handles pagination and returns the correct resources for each page.
- Verify that the API correctly handles sorting and filtering of resources.
- Verify that the API correctly handles searching for resources based on specific criteria.
- Verify that the API correctly handles batch requests and returns the correct resources for each batch.
- Verify that the API correctly handles web hooks and delivers the correct events to subscribed clients.



- Verify that the API correctly handles server-side validation and returns the correct HTTP status code and error message.
- Verify that the API correctly handles client-side validation and returns the correct HTTP status code and error message.
- Verify that the API correctly handles field-level validation and returns the correct HTTP status code and error message.
- Verify that the API correctly handles database transactions and returns the correct HTTP status code and error message.
- Verify that the API correctly handles database backups and restores and returns the correct HTTP status code and error message.



- Verify that the API correctly handles encryption and decryption of data.
- Verify that the API correctly handles compression and decompression of data.
- Verify that the API correctly handles rate limiting based on user account or IP address.
- Verify that the API correctly handles authentication based on user account or API key.
- Verify that the API correctly handles authorization based on user roles or permissions.
- Verify that the API correctly handles cross-origin resource sharing (CORS) and returns the correct HTTP status code and error message.
- Verify that the API correctly handles input sanitization and returns the correct HTTP status code and error message.

