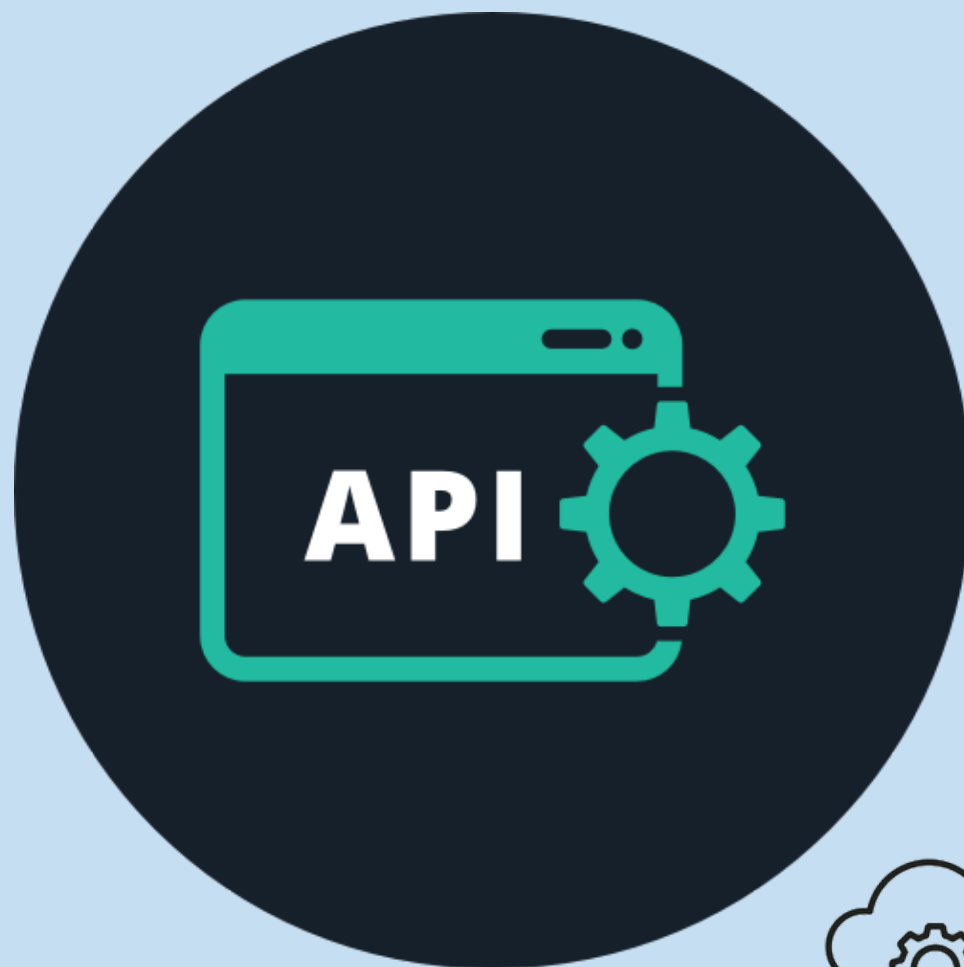# API Cheat Sheet

Common API Test Cases

1. **Response Validation**

- Verify that the API response status code is 200 OK upon successful request

- 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 response headers are correct.

- Verify that the API response contains a specific error message when the request fails due to validation errors

- Verify that the API response contains a specific error message when the request fails due to server-side errors
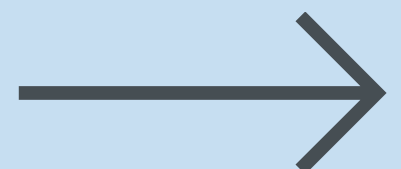
2. **Request Validation**

- 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 API response headers is correct

- Verify API returns error message for missing request payload

- Verify API returns error message for missing API request method
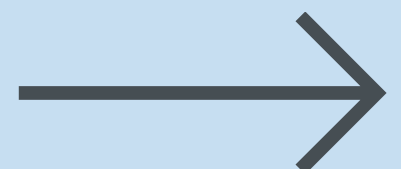
3. Error Handling

- Verify API returns error message for forbidden access

- Verify API returns error message for server-side validation failure

- Verify API returns error message for invalid authentication credentials

- Verify API returns a specific error message for invalid data format in request

- Verify API returns error message and status code for invalid authentication credentials
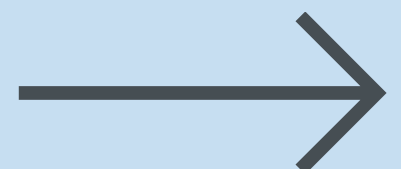
4. **Success Handling**

- 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 a success message if the resource is retrieved successfully

5. **Negative Scenarios**

- Verify API response for invalid request method

- Verify API response for exceeded payload size

- Verify API response for malformed request URL

- Verify API response for non-existent resource

- Verify API response for expired authentication token

- Verify API response for incorrect content type

- Verify API response for unexpected server errors

- Verify API response for invalid authentication credentials

Types of Authentication

1. Basic Authentication

2. Pre-emptive Authentication

3. Digest Authentication

4. OAuth2 Authentication

5. OAuth Authentication

Request Structure

1. HTTP Method

- GET
- POST
- PUT
- DELETE
- PATCH

2. URL

- The URL identifies the location of the API endpoint that the client wants to access. e.g., https://www.alphabin.co/

3. **Request Header**

- Content-Type
- Authorization
- Accept

4. **Request Parameters**

- Query Parameters
- Path Parameters
- Request Body

5. **Request Body**

- For HTTP methods like POST, PUT, and PATCH, the request body contains the data that the client wants to send to the server.
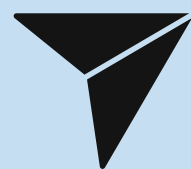
6. **Authentication**

- If the API requires authentication, the client must include authentication credentials (e.g., API keys, OAuth tokens)

Was This Helpful

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