Common API Test Cases

1. Verify that the API response status code is 200 OK.

2. Verify that the API response is in the expected format (e.g. JSON, XML).

3. Verify that the API response contains all the expected fields.

4. Verify that the API response contains the correct data for each field.

5. Verify that the API response time is within acceptable limits.

6. Verify that the API request parameters are correctly passed to the API.

7. Verify that the API request method is correct (e.g. GET, POST, PUT, DELETE).

8. Verify that the API endpoint URL is correct.

9. Verify that the API response headers are correct.

10. Verify that the API response payload size is within acceptable limits.

11. Verify that the API returns an error message if the request is malformed.

12. Verify that the API returns an error message if the authentication fails.

13. Verify that the API returns an error message if the request payload is missing.

14. Verify that the API returns an error message if the requested resource does not exist.

15. Verify that the API returns an error message if the requested resource is not authorized.

16. Verify that the API returns an error message if the request payload exceeds the allowed limit.

17. Verify that the API returns an error message if the request payload contains invalid data.

18. Verify that the API returns an error message if the request method is not allowed for the resource.

19. Verify that the API returns a success message if the resource is created successfully.

20. Verify that the API returns a success message if the resource is updated successfully.

21. Verify that the API returns a success message if the resource is deleted successfully.

22. Verify that the API returns a success message if the resource is retrieved successfully.

23. Verify that the API returns the correct resource based on the provided resource identifier.

24. Verify that the API returns the correct resource based on the provided search parameters.

25. Verify that the API response contains the correct pagination information.

26. Verify that the API response contains the correct sorting order based on the provided sort parameter.

27. Verify that the API response contains the correct filtering information based on the provided filter parameters.

28. Verify that the API returns the correct results when searching for a partial string.

29. Verify that the API returns the correct results when searching for a case-insensitive string.

30. Verify that the API returns the correct results when searching for a string with special characters.

31. Verify that the API returns the correct results when searching for a string with multiple words.

32. Verify that the API returns the correct results when searching for a string with a combination of letters and numbers.

33. Verify that the API returns the correct results when searching for a string with spaces.

34. Verify that the API returns the correct results when searching for a string with non-ASCII characters.

35. Verify that the API returns the correct results when searching for a string with mixed character types (e.g. letters, numbers, symbols).

36. Verify that the API returns the correct results when searching for a string with HTML tags.

37. Verify that the API returns the correct results when searching for a string with escape characters.

38. Verify that the API response contains the correct resource representation based on the provided content type.

39. Verify that the API response is compressed when the client sends a request with the "Accept-Encoding" header set to "gzip".

40. Verify that the API response is not compressed when the client does not send the "Accept-Encoding" header.

41. 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".

42. Verify that the API response contains the correct resource representation based on the specified language (e.g. English, Spanish, French).

43. Verify that the API response contains the correct resource representation based on the specified locale (e.g. en-US, fr-FR).

44. Verify that the API response contains the correct resource representation based on the specified time zone.

45. Verify that the API response contains the correct resource representation when the resource contains nested objects or arrays.

46. Verify that the API returns a response within a specified timeout period.

47. Verify that the API handles concurrent requests correctly.

48. Verify that the API handles partial updates correctly (e.g. PATCH requests).

49. Verify that the API returns a response with a custom HTTP header when a specific request header is sent.

50. Verify that the API correctly handles file uploads and downloads.

51. Verify that the API response contains the correct resource representation based on the specified currency.

52. Verify that the API correctly handles rate limiting and returns the correct HTTP status code.

53. Verify that the API correctly handles retries and returns the correct HTTP status code.

54. Verify that the API correctly handles redirects and returns the correct HTTP status code.

55. Verify that the API correctly handles cookies and returns the correct HTTP status code.

56. Verify that the API correctly handles caching and returns the correct HTTP status code.

57. Verify that the API correctly handles CSRF tokens and returns the correct HTTP status code.

58. Verify that the API correctly handles cross-site scripting (XSS) attacks and returns the correct HTTP status code.

59. Verify that the API correctly handles SQL injection attacks and returns the correct HTTP status code.

60. Verify that the API correctly handles cross-site request forgery (CSRF) attacks and returns the correct HTTP status code.

61. Verify that the API correctly handles input validation and returns the correct HTTP status code.

62. Verify that the API correctly handles output encoding and returns the correct HTTP status code.

63. Verify that the API correctly handles SSL/TLS certificates and returns the correct HTTP status code.

64. Verify that the API correctly handles content negotiation and returns the correct HTTP status code.

65. Verify that the API correctly handles authentication and authorization and returns the correct HTTP status code.

66. Verify that the API correctly handles request rate limiting and returns the correct HTTP status code.

67. Verify that the API correctly handles retry attempts and returns the correct HTTP status code.

68. Verify that the API correctly handles timeouts and returns the correct HTTP status code.

69. Verify that the API correctly handles network failures and returns the correct HTTP status code.

70. Verify that the API correctly handles race conditions and returns the correct HTTP status code.

71. Verify that the API correctly handles caching and returns the correct HTTP status code.

72. Verify that the API correctly handles versioning and returns the correct HTTP status code.

73. Verify that the API correctly handles version negotiation and returns the correct HTTP status code.

74. Verify that the API correctly handles content negotiation and returns the correct HTTP status code.

75. Verify that the API correctly handles partial updates and returns the correct HTTP status code.

76. Verify that the API correctly handles error conditions and returns the correct HTTP status code and error message.

77. Verify that the API correctly handles various types of requests, such as GET, POST, PUT, DELETE, OPTIONS, HEAD, and PATCH.

78. Verify that the API correctly handles various types of data, such as strings, numbers, dates, and binary data.

79. Verify that the API correctly handles various types of authentication, such as basic authentication, token authentication, and OAuth.

80. Verify that the API correctly handles various types of authorization, such as role-based

81. Verify that the API returns the correct HTTP status code for requests that are not supported (e.g. HTTP 405 Method Not Allowed).

82. Verify that the API returns the correct HTTP status code for invalid requests (e.g. HTTP 400 Bad Request).

83. Verify that the API returns the correct HTTP status code for unauthorized requests (e.g. HTTP 401 Unauthorized).

84. Verify that the API returns the correct HTTP status code for forbidden requests (e.g. HTTP 403 Forbidden).

85. Verify that the API returns the correct HTTP status code for resource not found (e.g. HTTP 404 Not Found).

86. Verify that the API correctly handles pagination and returns the correct resources for each page.

87. Verify that the API correctly handles sorting and filtering of resources.

88. Verify that the API correctly handles searching for resources based on specific criteria.

89. Verify that the API correctly handles batch requests and returns the correct resources for each batch.

90. Verify that the API correctly handles web hooks and delivers the correct events to subscribed clients.

91. Verify that the API correctly handles server-side validation and returns the correct HTTP status code and error message.

92. Verify that the API correctly handles client-side validation and returns the correct HTTP status code and error message.

93. Verify that the API correctly handles field-level validation and returns the correct HTTP status code and error message.

94. Verify that the API correctly handles database transactions and returns the correct HTTP status code and error message.

95. Verify that the API correctly handles database backups and restores and returns the correct HTTP status code and error message.

96. Verify that the API correctly handles encryption and decryption of data.

97. Verify that the API correctly handles compression and decompression of data.

98. Verify that the API correctly handles rate limiting based on user account or IP address.

99. Verify that the API correctly handles authentication based on user account or API key.

100. Verify that the API correctly handles authorization based on user roles or permissions.

101. Verify that the API correctly handles cross-origin resource sharing (CORS) and returns the correct HTTP status code and error message.

102. Verify that the API correctly handles input sanitization and returns the correct HTTP status code and error message.

103. Verify that the API correctly handles output sanitization and returns the correct HTTP status code and error message.

104. Verify that the API correctly handles SQL injection prevention and returns the correct HTTP status code and error message.

105. Verify that the API correctly handles cross-site scripting (XSS) prevention and returns the correct HTTP status code and error message.

106. Verify that the API correctly handles cross-site request forgery (CSRF) prevention and returns the correct HTTP status code and error message.

107. Verify that the API correctly handles broken links and returns the correct HTTP status code and error message.

108. Verify that the API correctly handles CORS preflight requests and returns the correct HTTP status code and error message.

109. Verify that the API correctly handles multi-language support and returns the correct resources for each language.

110. Verify that the API correctly handles multi-currency support and returns the correct resources for each currency.

111. Verify that the API correctly handles multi-timezone support and returns the correct resources for each timezone.

112. Verify that the API correctly handles multi-locale support and returns the correct resources for each locale.

113. Verify that the API correctly handles multi-region support and returns the correct resources for each region.

114. Verify that the API correctly handles multi-tenant support and returns the correct resources for each tenant.

115. Verify that the API correctly handles multi-environment support and returns the correct resources for each environment.

116. Verify that the API correctly handles multi-platform support

117. Verify that the API returns the correct response time for different types of requests (e.g. GET, POST, PUT, DELETE).

118. Verify that the API correctly handles large payloads and returns the correct HTTP status code and error message.

119. Verify that the API correctly handles small payloads and returns the correct HTTP status code and error message.

120. Verify that the API correctly handles concurrent requests and returns the correct resources for each request.

121. Verify that the API correctly handles slow requests and returns the correct HTTP status code and error message.

122. Verify that the API correctly handles high traffic and returns the correct HTTP status code and error message.

123. Verify that the API correctly handles low traffic and returns the correct HTTP status code and error message.

124. Verify that the API correctly handles error recovery and returns the correct HTTP status code and error message.

125. Verify that the API correctly handles failover and returns the correct HTTP status code and error message.

126. Verify that the API correctly handles load balancing and returns the correct HTTP status code and error message.

127. Verify that the API correctly handles server clustering and returns the correct HTTP status code and error message.

128. Verify that the API correctly handles versioning and returns the correct resources for each version.

129. Verify that the API correctly handles API documentation and returns the correct resources for each API endpoint.

130. Verify that the API correctly handles API change logs and returns the correct resources for each API change.

131. Verify that the API correctly handles API testing and returns the correct resources for each API test.

132. Verify that the API correctly handles API monitoring and returns the correct resources for each API metric.

133. Verify that the API correctly handles API security and returns the correct resources for each API vulnerability.

134. Verify that the API correctly handles API performance and returns the correct resources for each API performance metric.

135. Verify that the API correctly handles API scalability and returns the correct resources for each API scalability metric.

136. Verify that the API correctly handles API availability and returns the correct resources for each API availability metric.

137. Verify that the API correctly handles API reliability and returns the correct resources for each API reliability metric.

138. Verify that the API correctly handles API maintainability and returns the correct resources for each API maintainability metric.

139. Verify that the API correctly handles API usability and returns the correct resources for each API usability metric.

140. Verify that the API correctly handles API accessibility and returns the correct resources for each API accessibility metric.

141. Verify that the API correctly handles API localization and returns the correct resources for each API localization metric.

142. Verify that the API correctly handles API internationalization and returns the correct resources for each API internationalization metric.

143. Verify that the API correctly handles API compliance and returns the correct resources for each API compliance metric.

144. Verify that the API correctly handles API analytics and returns the correct resources for each API analytic metric.

145. Verify that the API correctly handles API audit logs and returns the correct resources for each API audit log.

146. Verify that the API correctly handles API error logs and returns the correct resources for each API error log.

147. Verify that the API correctly handles API debug logs and returns the correct resources for each API debug log.

148. Verify that the API correctly handles API performance logs and returns the correct resources for each API performance log.

149. Verify that the API correctly handles API security logs and returns the correct resources for each API security log.

150. Verify that the API correctly handles API usage logs and returns the correct resources for each API usage log.

151. Verify that the API correctly handles API event logs and returns the correct resources for each API event log.

152. Verify that the API correctly handles API version