

OpenAI API V2.3.0 API Results

The OpenAI REST API. Please see <https://platform.openai.com/docs/api-reference> for more details.

<https://api.openai.com/v1>

110 endpoints

D | 63

Overall API Score

AI Ready

2 Issues

D

60

Design

6 Issues

D

60

Performance

2 Issues

D

68

Security

4 Issues

D

68



AI Ready

Fail

Parameter Descriptions

Checks if each parameter has descriptions

Fail

Schema Types or Descriptions

Checks if each schema has descriptions or types

Pass

Response Descriptions

Checks if each response has descriptions

Pass

Operation ID

Checks if each operation has an id



Design

Fail

Rate Limiting

Rate limiting is crucial for API security as it helps prevent abusive or malicious behavior by limiting the number of requests a client can make within a specified time. It mitigates the risk of unauthorized access, DDoS attacks, and resource exhaustion, ensuring fair and controlled usage of API resources while maintaining system stability and security. This test checks for the `x-ratelimit-limit` or `x-rate-limit` headers in the response payload to see if you use rate limiting.

Fail

Robust Responses

A robust API will return response codes that help users understand what happened, even when the response is successful. This test checks to ensure your schema describes more than just (200) HTTP_OK responses.

Fail

Examples Exist

Checks for presence of `value` or `externalValue` for examples.

Fail

Unused Models

Checks for the presence of data models defined but not used.

Fail

Consistent Pluralization

The base API endpoint provides the location of a group of resources (nouns). Therefore, your base endpoints should be described as plural nouns. For example: `/users` vs. `/user`

Fail

Consistent Noun Usage

API functionality is defined by the HTTP verb (method) and convey actions or a state of a resource (noun). Therefore, your endpoints should be described as nouns instead of verbs. For example: POST method for endpoint `/user/{id}` vs. `/postUser/{id}`

Pass

Operation Descriptions or Summaries

All operations must contain either a description or summary

Pass

JSON Support

When designing APIs that send and receive JSON data, you should always declare the `content-type` header as `application/json`. This test checks to make sure the `content-type` header is `application/json`.

Pass

Multiple HTTP Methods

A robust API should be designed methodically, allowing users to perform multiple functions. This test checks if your schema describes more than just GET response methods.

Pass

Versioning

Good API design provides a way manage changes that is transparent to API consumers and other API producers. We recommend using url-based versioning, either v or V followed by a number (`/v2`) or numeric based (`/1`).

Pass

Information Description

Check to ensure all operations contain either a description or summary.

Pass

Contact Information

Checks for presence of contact name, email, or URL.



Performance

Fail

Cache Support

The cache-control header is used to specify browser caching policies, including how a resource is cached, where it is cached, and its expiration.

Fail

Compression Support

Compression speeds up the transmission of data and reduces packet loss. This test checks to see if compression content-encoding header exists.

Skipped

Response size

Checks if size of response is less than 100KB.

Pass

CDN Usage

Checks the base URL of the first entry in the servers section for responses of common CDN suppliers.

Pass

HTTP2 Usage

Checks the base URL of the first entry in the servers section for version of the HTTP server.

Pass

Load Time

Load time is the time it takes for an API to process a request and return a response. While several factors affect load time, users expect a response in 500ms or less. This test checks for load times of API responses.



Security

Fail

Operation Enforces Security Scheme

Checks to ensure operation security field is defined. If not anyone can access the API without any authentication.

Fail

iFrame Embedding

The X-Frame-Options header indicates whether a browser can render a page in a `<frame>` or `<iframe>`. If not set to DENY, sites can manipulate user's activity via clickjacking attacks. This test check if the X-Frame-Options header exists and its value is set to DENY.

Fail

Insecure Direct Object Reference (IDOR) Risks

Checks for Insecure Direct Object Reference (IDOR) risks which can allow malicious users to access or modify objects by manipulating identifiers used in the API parameters. This test checks each path parameter's definition: they must be of type string and format UUID or type string with a valid UUID/ULID/Mongo ObjectID example present.

Fail

Content Security Policy

The Content-Security-Policy header allows you to restrict which resources can be loaded and what URLs they can be loaded from. This test checks to see if the Content-Security-Policy header exists.

Pass

Global Security Field is Defined

Checks if security field is defined

Pass

Content Type Options

The X-Content-Type-Options header plays a vital role in protecting the API from MIME sniffing attacks. By setting the value of this header to nosniff, it instructs the browser to strictly adhere to the declared Content-Type and prevents it from attempting to sniff or interpret the response data based on its content. This test checks to see if the X-Content-Type-Options header exists and if its value is set to nosniff.

Pass

Security Field Contains a Scheme

Check to ensure there is no empty object in the security field.

Pass

Authorization

API Authorization is crucial for ensuring secure access and protecting sensitive data. This tests checks to ensure the securitySchemes object is present and is not empty.

Pass

Secure URLs (HTTPS)

Good API design ensures that all data is transferred via an encrypted protocol. This test checks whether requests require HTTPS.

Pass

Strict Transport Security

The **Strict-Transport-Security** (HSTS) header is crucial for enforcing secure communication over HTTPS. When a server includes the HSTS header in its response, it instructs the browser to always connect to the API using HTTPS, even if the user enters an HTTP URL. This prevents potential downgrade attacks and ensures that all communication remains encrypted. This test checks for the **Strict-Transport-Security** header in your API responses.