



API AUDIT CHECKLIST

Use this checklist to audit your API prototype or a ready-made API before publishing it to stakeholders, or, why not before buying an API. Now available for [REST](#) and [JSON-API](#)

Detailed guide related to APIGate Cyber group

API AUDIT

REST API CHECKLIST

PROTOTYPE IS READY WHEN...

- ☑ The API is based on clear business needs.
- ☑ API is designed for multiple backend data and shared use for multiple API-consuming applications.
- ☑ The API has a description that explains its business value and features.
- ☑ API has a consistent design with our other APIs.
- ☑ API and data naming uses good English (or other standard language)
- ☑ Mandatory fields are specified.
- ☑ Dates are in ISO standard date format including the time zone.
- ☑ All general data such as currency and language names, geographical coordinates etc. use standard values.
- ☑ Fields are described in full words avoiding acronyms.
- ☑ When creating new resources, an identifier is returned per item.

API DESIGN IS READY WHEN...

All items in the prototype checklist are fulfilled in addition to...

- ☑ Outpoint design contains maximum of two resource/endpoint resources in the endpoint path.
- ☑ All endpoints and attributes include examples.
- ☑ POST is used for creating and updating data (instead of PUT unless full resource)
- ☑ DELETE is used to remove or release.
- ☑ API consuming strings has been decided and it is supported by the API gateway in use.
- ☑ GET method doesn't have a request body and returns status 200 OK and some content in response.
- ☑ GET method returns status 204 when the resource body is empty.
- ☑ POST method returns 200 OK when the resource is updated.
- ☑ POST method returns status 201 Created and returns the

API IS IN MAINTAINABLE IN PRODUCTION WHEN...

All items in the prototype and API design checklist are fulfilled in addition to...

- ☑ API is published via API management.
- ☑ API is visible in a Developer portal.
- ☑ API can only be accessed via the API management gateway.
- ☑ Rate limits are enforced when requesting API.
- ☑ API documentation is generated automatically based on the specification, schema and examples.
- ☑ The specification is updated automatically by API gateway and documentation side if developer portal when changes are done to API.
- ☑ Specification for endpoints is validated on every change against standards.
- ☑ The specification contains the schema for the requests and responses.
- ☑ Request and response schema and examples pass schema validation.
- ☑ API uses HTTP(S), in special cases, other statuses protocols with appropriate.

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Lei Shi



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differentiate $y = \sin x \cos x$ solution $f'(x) = \sin x \cos x + f(x) \cos x \sin x$

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