

Today: Todoist | Master API Testing Postman(WC) | { API Testing } with Master API | What is API Testing? | Definition | Learning Postman Resources - | json-server - npm | API Testing : A Definitive Guide | +

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Agenda

- What is REST API?
- HTTP Requests
- HTTP Methods
- HTTP Headers
- HTTP Status Codes
- RESTful API

Why API Testing?

- What is API Testing?
- Why API Testing?
- How API Testing?
- API Testing Tools

Why API Testing?

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- Why API Testing?
- How API Testing?
- API Testing Tools

What is REST API?

- What is REST API?
- Why REST API?
- How REST API?



What is REST API?

- REST is an acronym for REpresentational State Transfer.
- The REST **architectural style** describes six constraints.
- These constraints, put on the architecture, were initially communicated by Roy Fielding in his doctoral dissertation and defines the basis of RESTful-style.

<https://sdet.live/notes>

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What is REST API?

- In Simple Terms REST API is nothing but a Design Pattern for Web API



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18 REST API Test



REST Constraints

- Uniform Interface
- Stateless
- Cacheable
- Client-Server

Layered System

Code on Demand

<https://scrolltest.com/rest/explained>

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communicate and agree to certain rules based on resources(they should communicate with same resource like json, xml, html , txt) and with proper encoding like UTF-8 extra.

Another point they should communicate with the Self-descriptive Messages e.g Use the same MIME types.

Stateless

APIs in REST is stateless and Client and server don't worry about the state of the request or response..

Cacheable

According to the World Wide Web, clients can cache responses. Responses should, therefore, implicitly or explicitly, define themselves as cacheable. It's up to server when they want the cache to expire etc.

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309

158

Client-Server

Client and Server are two different entity, It means that servers and clients may also be replaced and developed independently, as long as the interface is not altered.

Layered System.

It means that between client and server there can be any number of layered systems it does not matter.

Code on Demand

The server can store the Code or logic to themselves and transfer it whenever needed rather client-side logic.



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- Functional Testing.
- Integration Testing
- Regression Testing
- Security Testing
- Load Testing
- Penetration Testing
- Fuzz testing - discover coding errors

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18 REST
19 What to Test in APIs
20 Reason
21 Type of Testing in API Testing?
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Difference	SOAP	REST
Style	Protocol	Architectural style
Function	Function-driven: transfer structured information	Data-driven: access a resource for data
Data format	Only uses XML	Permits many data formats, including plain text, HTML, XML, and JSON
Security	Supports WS-Security and SSL	Supports SSL and HTTPS
Bandwidth	Requires more resources and bandwidth	Requires fewer resources and is lightweight
Data cache	Can not be cached	Can be cached
Payload handling	Has a strict communication contract and needs knowledge of everything before any interaction	Needs no knowledge of the API
ACID compliance	Has built-in ACID compliance to reduce anomalies	Lacks ACID compliance



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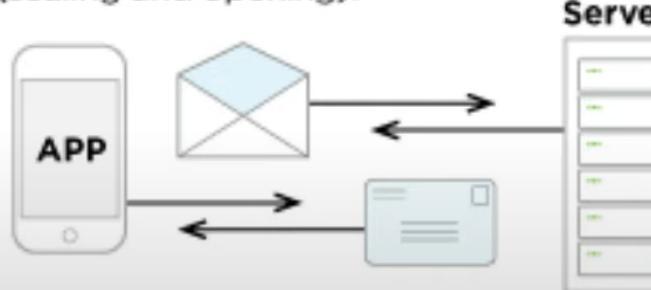
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SOAP vs. REST APIs

SOAP is like using an envelope

Extra overhead, more bandwidth required, more work on both ends (sealing and opening).



REST is like a postcard

Lighterweight, can be cached, easier to update.



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w3schools.com/xml/xml_whatis.asp

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XML Tutorial

XML HOME

XML Introduction

XML How to use

XML Tree

XML Syntax

XML Elements

XML Attributes

XML Namespaces

XML Display

XML XMLHttpRequest

XML Parser

XML DOM

XML XPath

XML XSLT

XML XQuery

What is XML?

- XML stands for eXtensible Markup Language
- XML is a markup language much like HTML
- XML was designed to store and transport data
- XML was designed to be self-descriptive
- XML is a W3C Recommendation

XML Does Not DO Anything

Maybe it is a little hard to understand, but XML does not DO anything.

This note is a note to Tove from Jani, stored as XML:

```
<note>
```

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Elements Console Sources Network Performance Memory Application Security Lighthouse

Preserve log Disable cache No throttling ▾ ↑ ↓

Filter Hide data URLs All XHR JS CSS Img Media Font Doc WS Manifest Other Has blocked cookies Blocked

500 ms 1000 ms 1500 ms 2000 ms 2500 ms 3000 ms 3500 ms 4000 ms 4500 ms

00 ms

Name

xml_whatis.asp

fontawesome.

source-code-.

21 requests 17.6

Headers Preview Response Initiator Timing

General

Request URL: https://www.w3schools.com/xml/xml_whatis.asp

Request Method: GET

Status Code: 304

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HTTP Status Codes

httpstatuses.com is an easy to reference database of HTTP Status Codes with their definitions and helpful code references all in one place. Visit an individual status code via <https://httpstatuses.com/code> or browse the list below.

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1xx Informational

[100 Continue](#)
[101 Switching Protocols](#)
[102 Processing](#)

2xx Success

[200 OK](#)
[201 Created](#)
[202 Accepted](#)
[203 Non-authoritative Information](#)
[204 No Content](#)
[205 Reset Content](#)
[206 Partial Content](#)
[207 Multi-Status](#)
[208 Already Reported](#)
[226 IM Used](#)

3xx Redirection

[300 Multiple Choices](#)
[301 Moved Permanently](#)
[302 Found](#)
[303 See Other](#)
~~[304 Not Modified](#)~~
[305 Use Proxy](#)
[307 Temporary Redirect](#)
[308 Permanent Redirect](#)

4xx Client Error

[400 Bad Request](#)
[401 Unauthorized](#)
[402 Payment Required](#)
[403 Forbidden](#)
~~[404 Not Found](#)~~



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What to Test in APIs? Reason Type of Testing in API Testing? SOAP vs. REST API HTTP Fundamentals HTTP Methods

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HTTP Methods

HTTP Method	Request Has Body	Response Has Body	Safe	Idempotent	Cacheable
GET	Optional	Yes	Yes	Yes	Yes
HEAD	No	No	Yes	Yes	Yes
POST	Yes	Yes	No	No	Yes
PUT	Yes	Yes	No	Yes	No
DELETE	No	Yes	No	Yes	
CONNECT	Yes	Yes	No	No	
OPTIONS	Optional	Yes	Yes	Yes	
TRACE	No	Yes	Yes	Yes	
PATCH	Yes	Yes	No	No	No



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