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API TESTING USING POSTMAN

Δ API: Set of functions / procedures.

Δ Types of API:

- SOAP
- JSON RPC
- XML RPC
- REST

Δ What we test in API Testing?

→ We test response when we request send an invalid request.

→ KEYS validation etc.

Δ SOAP: Simple Object Access Protocol.

→ messaging protocol

→ that allows programs to communicate with server.

→ SOAP envelopes

Δ SOAP

v/s

REST

1) XML based messaging protocol.

1) Uses WSDL for commun. b/w consumer & provider

WSDL: Web Service Definition Language

3) invokes services by calling RPC method.

1) Architectural style.

2) Uses XML/JSON to send & receive data.

3) calls services via URL path.

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~~SOAP~~

SOAP

is

REST

4) does not return human readable result

5) Transfer over HTTP ^{or} SMTP, FTP etc

6) Difficult to call from JS

7) Performance is low

4) result is readable

5) only HTTP.

6) Easily called from JS

7) Performance is better than SOAP.

Δ Stateless constraint of REST API

→ Server don't remember anything about the user who uses the API.

Δ Cacheable constraint

→ Servers response should be specified to be cacheable/non-cacheable.

→ ~~do~~ done using version number.

Δ Client-server

→ both should be independently evolved, replaced, developed and altered.

Δ Layered System constraint

→ Client & Server can have any number of layers b/w them.

Δ Code On demand (optional)

→ code / logic can be stored in server & transfer it when demanded

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POSTMAN (IDE for API testing).

- Collection -
 - flow of requests
 - having multiple requests
- Prescripts - scripts runs before collection.
- Tests - after running collections: we can run tests.
- URLs - REST API works with URLs.
- reqres.in gives fake data
 - copy url from here
 - then, use it in POSTMAN
- we can also modify type of format, we want data in.
 - JSON
 - XML
 - HTML
 - Text
 - Auto