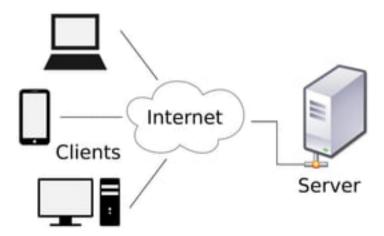
API Testing

Introduction

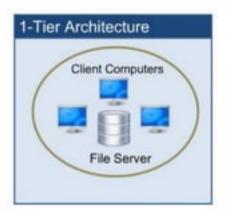
What is Client & Server?

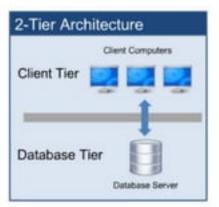
A client is a computer hardware device or software that accesses a service made available by a server. The server is often (but not always) located on a separate physical computer.

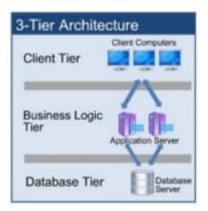
A server is a physical computer dedicated to run services to serve the needs of other computers. Depending on the service that is running, it could be a file server, database server, home media server, print server, or web server.

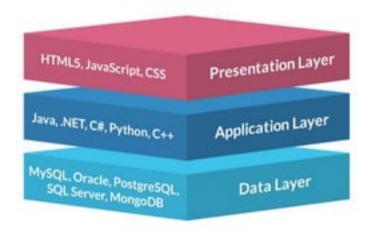


Client/Server Architecture



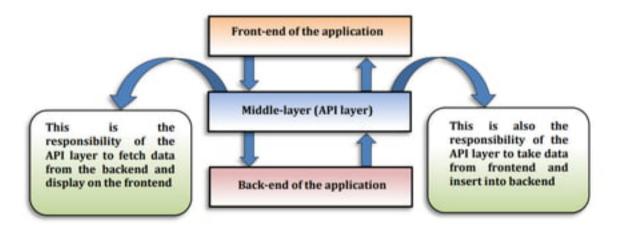






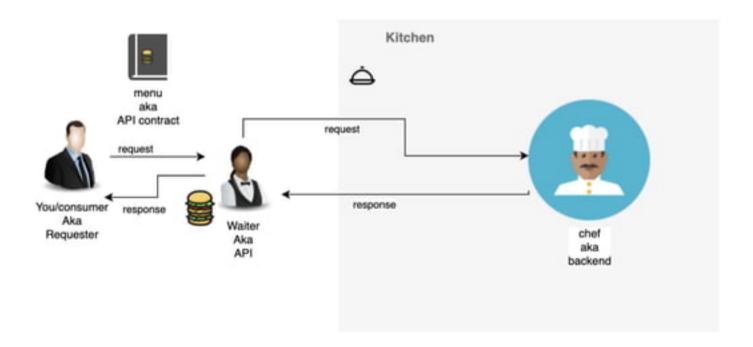
What is an API?

Application Program Interface (API): Is the way of communication between two applications where applications may differ in their platforms or in terms of technology.

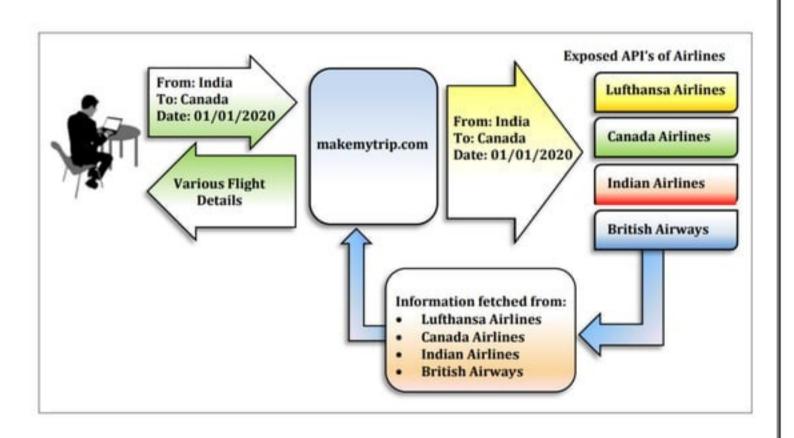


** API is a way of communication between two layers.

API - Restaurant analogy



Makemytrip example:



Types Of API

There are two types of API's,

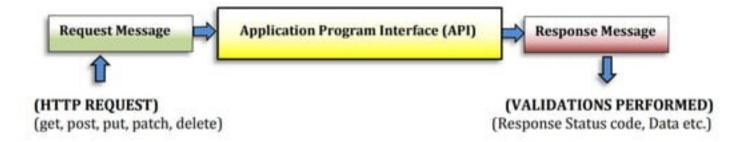
- Simple Object Access Protocol (SOAP)
- REST (Representational State Transfer).

Both are the web services.

API Vs Webservice

- Web Service is an API wrapped in HTTP.
- All Web Services are API but APIs are not Web Services.
- A Web Service needs a network while an API doesn't need a network for its operation.

Rest API HTTP Methods



REST API Methods GET POST PUT DELETE Receive information Create an API resource API resource API resource API resource

http Vs https





Terminologies

URI - Uniform Resource Identifier

URL - Uniform Resource Locator

URN - Uniform Resource Name

	URI,	/URL
		URI
		URN
SCHEME	HOST	PATH

https://google.com/articles/articlename

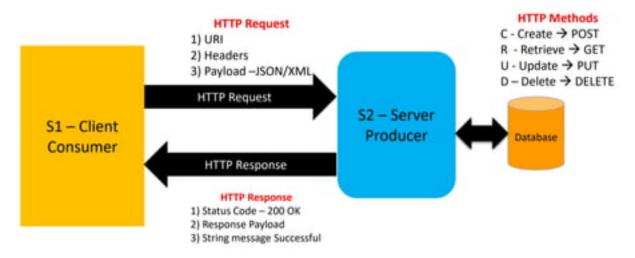
Feature & Resource

'Feature' is the term used in manual testing to test some functionality and similarly 'Resource' is the term used in API Automation testing referring some functionality.

Payload

payload means body in the HTTP request and response message.

- Request Payload
- Response Payload



Rest API Examples

- 1. Payment Gateways
- 2. Google Maps
- 3. Twitter
- 4. Facebook
- 5. Linked-In
- 6. GitHub