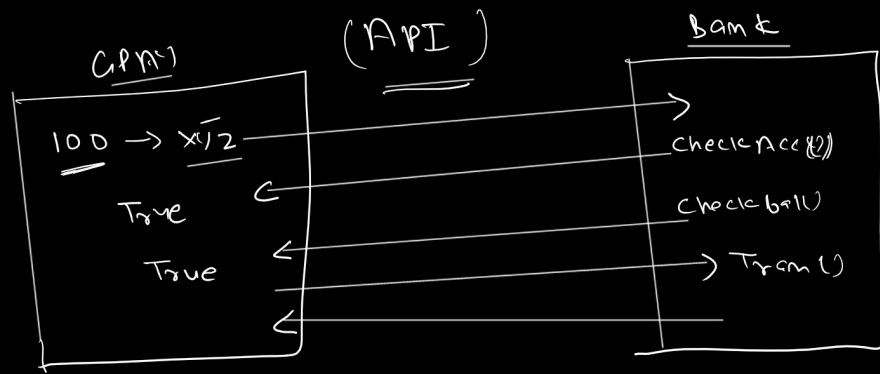


WEB APPS



Diff between API & web API

TCP/IP, HTTP

① Gmail Application

② Google

Rest
↓

HTTP
↓

Put, Get, Post, Delete.

SOAP Archi
↓

XML →

↓

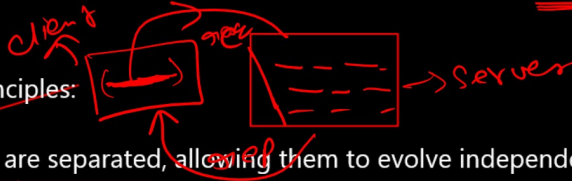
(WSDL) → HTTP, SMTP, TCP/IP

{ Simple
Scalability.
Flexibility. }

Restful Services

RESTful services, also known as RESTful APIs, are web services that follow the REST architectural style. REST stands for Representational State Transfer, which is a set of principles for building web services that use HTTP (Hypertext Transfer Protocol) as the communication protocol.

RESTful services are based on the following principles:



Client-server architecture: The client and server are separated, allowing them to evolve independently.

Stateless: Each request sent to the server contains all the information needed to complete the request. The server does not maintain any client context between requests.

Cacheable: Responses from the server can be cached to improve performance.

Uniform interface: RESTful services use a uniform interface consisting of resources, HTTP verbs (GET, POST, PUT, DELETE), and hypermedia links.



Layered system: RESTful services can be composed of multiple layers, allowing for scalability, flexibility, and security.

✓ ✓

