



# WHAT IS REST API



@codechips

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example

You have a Website  
for your Pizza Shop

And Uber Eats want  
to list your resources



API enables an application or service  
to access a resource within another



APIs exchange commands and data, and this requires clear **protocols and architectures**

-- the rules, structures and constraints that govern an API's operation

3 categories of API  
protocols or architectures:





REST architecture is perhaps the most popular approach to building APIs





# What defines a REST API ?

## Representational State Transfer

### architectural constraints

#### Uniform interface

All API requests should look concise and the same

#### Client-server

Client & Server must be completely independent of each other

#### Stateless

Server aren't allowed to store any data related to a client request

#### Cache

Improve performance on the client , scalability on the server side

#### Layered system

allow for the introduction of proxies, gateways and firewalls

#### Code on demand

responses can also contain executable code



# How REST APIs work ?

REST APIs communicate via HTTP requests to perform **CRUD** operations within a resource

A request is made up of four things:

- 1.The endpoint
- 2.The method
- 3.The headers
- 4.The data (or body)



provide information such as authentication , body content



contains information you want to be sent to the server





# Endpoint

The endpoint (or route) is the url you request for



## Method

Create

Read

Update

Delete

POST

GET

PUT

DELETE



A call is made from a client to a server, and data is received back over the HTTP protocol

GET

<https://api.codynos/pizzas>

Lists all  
pizza infos

POST

<https://api.codynos/order>

create a  
new order

body

```
{  
  "order_no" : "1",  
  "items" : "margherita"  
}
```

PUT

<https://api.codynos/sales>

update  
daily sales

body

```
{  
  "date" : "28-12-2021",  
  "order_no" : "1",  
  "price" : "$53.67"  
}
```

DELETE

<https://api.codynos/offers/1>

remove  
an offer





# Why REST ?



Works with XML, JSON,  
HTTP and plain text



provide a great  
deal of flexibility



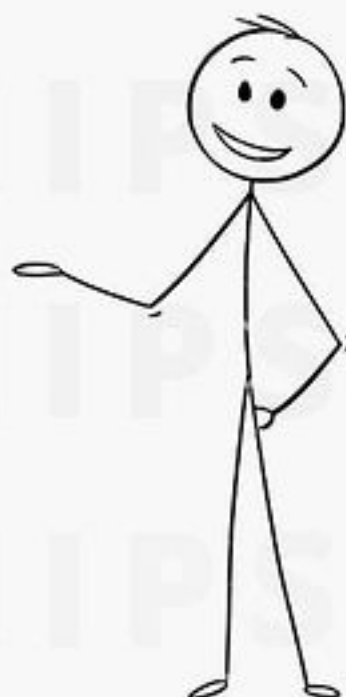
easier to  
work with



Caching  
is Easier



highly  
scalable



try making call to PUT  
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