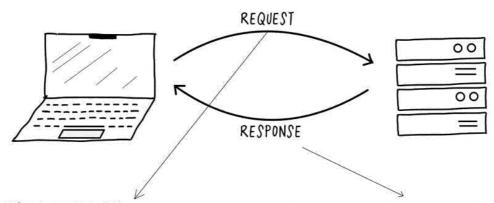
# REST STANDS FOR REPRESENTATIONAL STATE TRANSFER REST APIS OPERATE ON A SIMPLE REQUEST/RESPONSE SYSTEM



CLIENT CAN MAKE A REQUEST USING HTTP METHODS

THESE METHODS ARE:
GET, POST, PUT, PATCH, DELETE, HEAD,
TRACE, OPTIONS, CONNECT

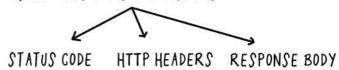
HTTP REQUEST CONTAINS

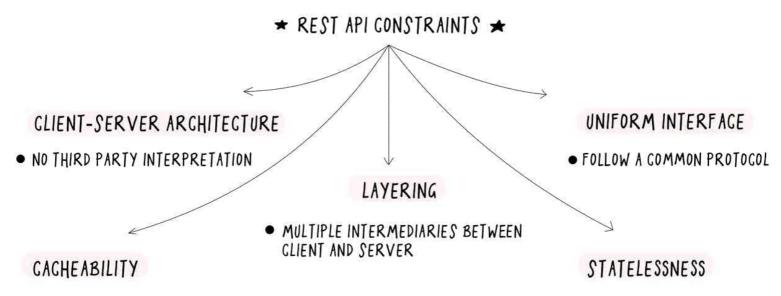


SERVER RETURNS A RESPONSE WITH AN HTTP STATUS CODE

POPULAR HTTP STATUS CODE: EX, 200, 202, 403, 404, 500 ETC

HTTP RESPONSE CONTAINS



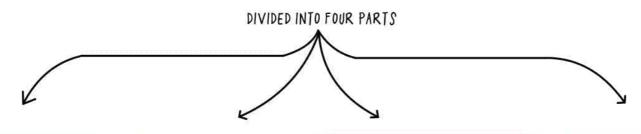


• RESPONSE CAN BE CACHEABLE

 THERE IS NO STATE. CLIENT AND SERVER ARE COMPLETELY SEPARATED

## HTTP HEADERS

CLIENT AND SERVER CAN PASS THE EXTRA BIT OF INFORMATION WITH THE REQUEST AND RESPONSE USING HTTP HEADERS



REQUEST HEADERS

RESPONSE HEADERS

REPRESENTATION HEADERS

PAYLOAD HEADERS

· CLIENT TO SERVER

SERVER TO CLIENT

 INFORMATION ABOUT THE BODY OF THE RESOURCE

 INFORMATION ABOUT THE PAYLOAD DATA



## WIDELY USED HTTP HEADERS

## Accept

TYPE OF DATA CLIENT CAN UNDERSTAND

## Accept-Encoding

WHICH ENCODING METHOD CLIENT CAN UNDERSTAND

#### Authorization

USED TO PASS GREDENTIALS SO THAT SERVER CAN AUTHENTICATE

### Accept-Language

CLIENT IS EXPECTING THE RESPONSE IN THE MENTIONED LANGUAGE

## Content-Type

SPECIFIES THE MEDIA TYPE OF THE RESOURCE

#### Host

SPECIFIES THE DOMAIN NAME

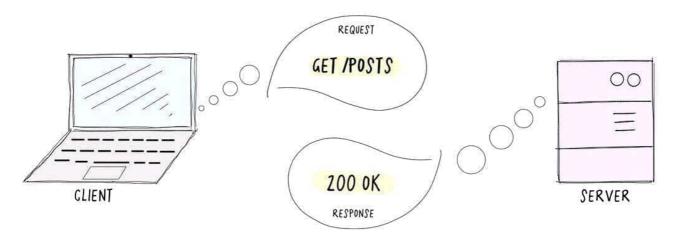
## Access-Control-Allow-Origin

WHICH ORIGIN IS ALLOWED TO ACCESS
THE RESOURCES

### Access-Control-Allow-Methods

WHICH METHODS ARE ALLOWED TO ACCESS
THE CROSS-ORIGIN RESOURCES

## HTTP STATUS CODES



\* SERVER ALWAYS RETURNS HTTP STATUS CODE WITH THE RESPONSE \*

#### SUCCESSFUL RESPONSES

200 OK EVERYTHING IS FINE

201 CREATED NEW RESOURCE WAS CREATED

#### REDIRECTION MESSAGES

301 MOVED PERMANENTLY THE RESOURCE HAS BEEN MOVED PERMANENTLY TO THE NEW URL

400 BAD REQUEST INVALID SYNTAX

401 UNAUTHORIZED CREDENTIALS ARE INCORRECT

403 FORBIDDEN YOU DON'T HAVE PERMISSION TO ACCESS THE RESOURGES

404 NOT FOUND

429 TOO MANY REQUESTS

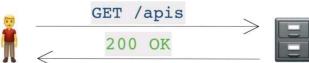
USER HAS SENT TOO MANY REQUESTS IN A INVALID URL

GIVEN AMOUNT OF TIME

#### SERVER ERROR

500 INTERNAL SERVER ERROR SERVER DOES NOT KNOW HOW TO HANDLE THE UNEXPECTED SITUATION

## HTTP Request Methods





The POST method is used to submit the The GET method is the most common of all these request methods. It is used to fetch the desired resources from As we're submitting data, the POST method often changes the state of the server. the server.



POST

PATCH



The PUT method is used whenever you need to change the resource. The resource, which is already a part of resource collection.

The PATCH request method is used to modify only the necessary part of the data or response. The PATCH method doesn't modify the

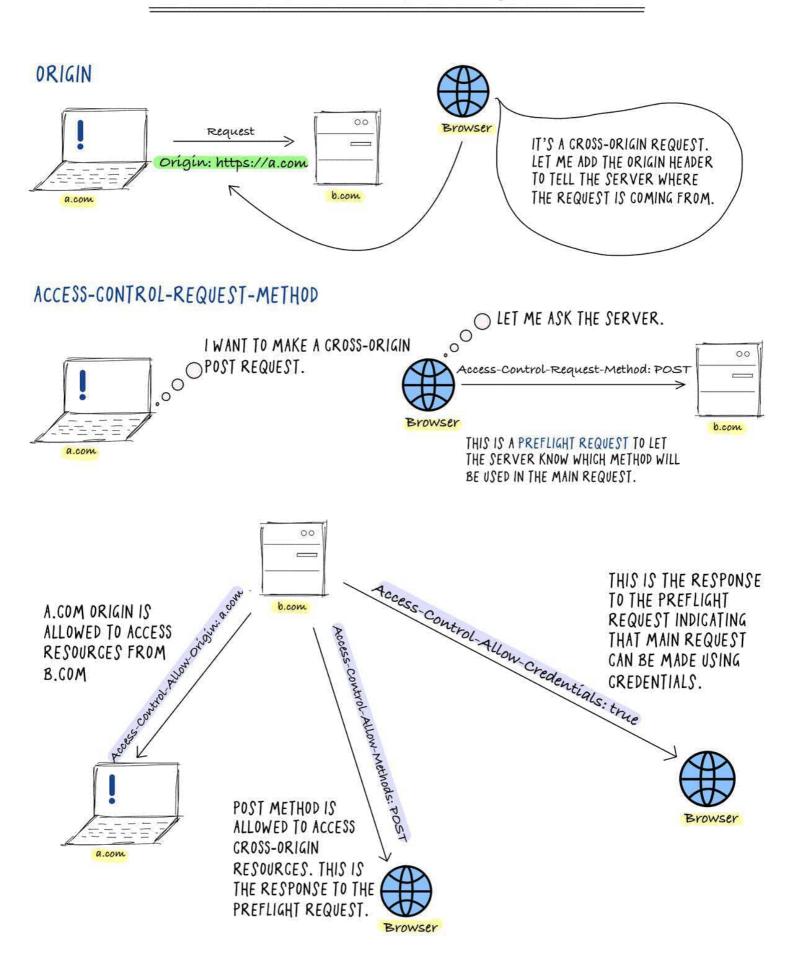
entire response.

information to the server.

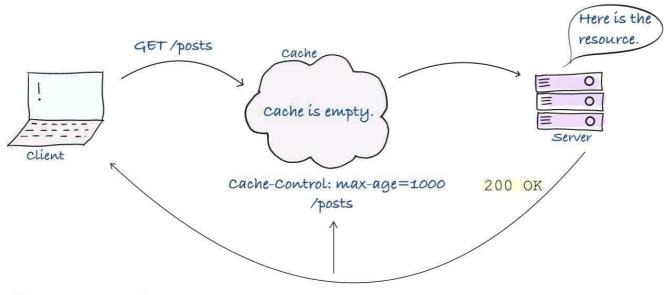


As the name says, the DELETE request method is used to delete the specified resource. It requests that the origin server delete the resource identified by the Request-URL.

# Access Control HTTP Headers



# Caching in API calls



After 200 Seconds

CODING BUGS NOTES GALLERY

