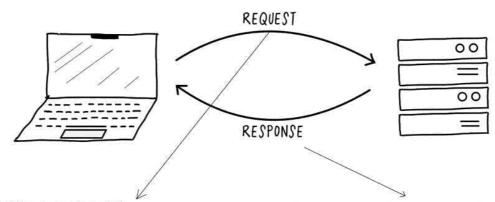
REST API

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

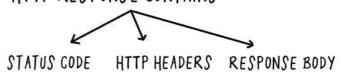
HTTP REQUEST CONTAINS

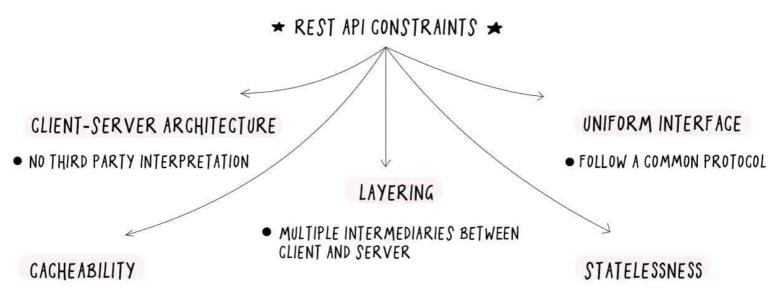


SERVER RETURNS A RESPONSE WITH AN HTTP STATUS CODE

POPULAR HTTP STATUS GODE: EX, 200, 202, 403, 404, 500 ETG

HTTP RESPONSE CONTAINS



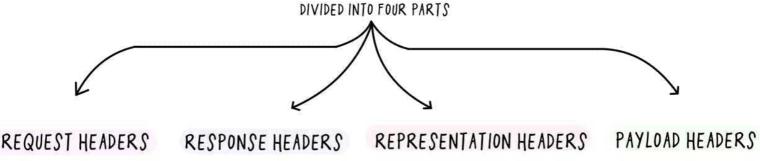


• RESPONSE CAN BE CACHEABLE

 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



- CLIENT TO SERVER
- SERVER TO CLIENT

- INFORMATION ABOUT
- INFORMATION ABOUT THE BODY OF THE RESOURCE
- THE PAYLOAD DATA

WIDELY USED HTTP HEADERS

Accept

TYPE OF DATA CLIENT CAN UNDERSTAND

Accept-Encoding

WHICH ENGODING METHOD CLIENT CAN UNDERSTAND

Authorization

USED TO PASS CREDENTIALS 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

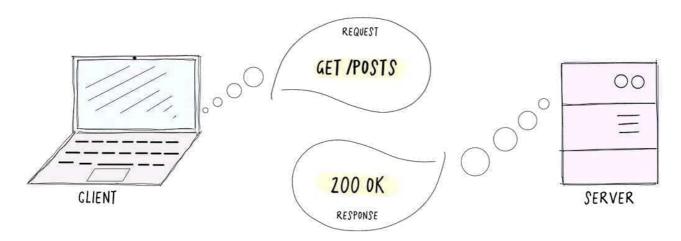
Access-Control-Allow-Origin

WHICH ORIGIN IS ALLOWED TO ACCESS THE RESOURCES

Access-Control-Allow-Methods

WHICH METHODS ARE ALLOWED TO ACCESS THE CROSS-ORIGIN RESOURCES

HTTP STATUS GODES



* SERVER ALWAYS RETURNS HTTP STATUS CODE WITH THE RESPONSE *

SUCCESSFUL RESPONSES

200 OK EVERYTHING IS FINE

201 GREATED

NEW RESOURCE WAS CREATED

REDIRECTION MESSAGES

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

CILEMI ER 208

400 BAD REQUEST
INVALID SYNTAX

401 UNAUTHORIZED
CREDENTIALS ARE INCORRECT

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

404 NOT FOUND

429 TOO MANY REQUESTS

INVALID URL

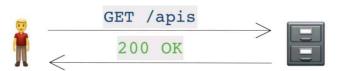
USER HAS SENT TOO MANY REQUESTS IN A

GIVEN AMOUNT OF TIME

SERVER ERROR

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

HTTP Request Methods



GET

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

The POST method is used to submit the information to the server. often changes the state of the server.





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

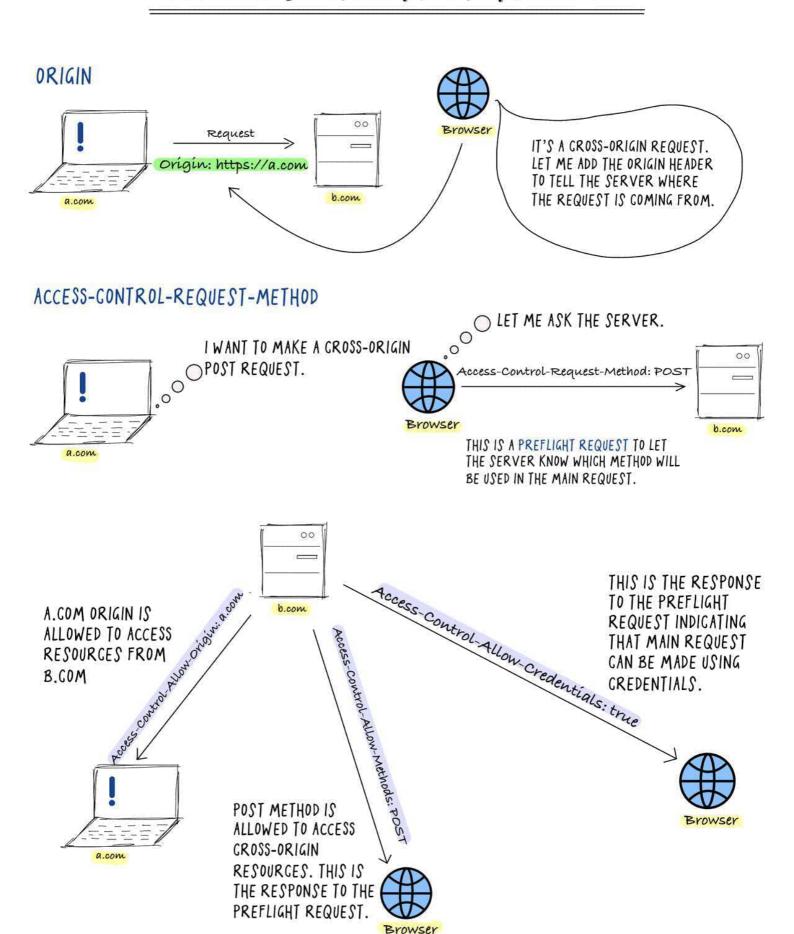
entire response.



DELETE

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

