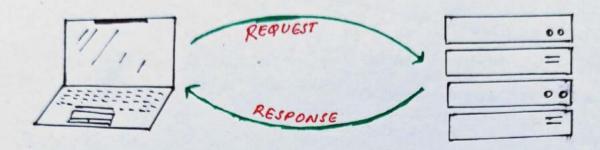
REST API

REST APIS OPERATE ON A SIMPE REQUEST/RESPONSE SYSTEM



USING HTTP METHODS

THESE METHODS ARE:

GET, POST, PUT, PATCH, DELETE, HEAD, TRACE, OPTIONS, CONNECT.

HTTP REQUEST CONTAINS

REQUEST HITP BODY MEADERS

SERVER RETURNS A RESPONSE WITH AN HTTP STATUS CODE

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

HTTP RESPONSE CONTAINS

STATUS CODE HTTP RESPONSE BODY.

* REST API CONSTRAINTS *

CLIENT-SERVER ARCHITECTURE

. NO THIRD PARTY INTERPRETATION.

· TECEGRAY- NOTES GALLERY.

UNIFORM INTERFACE

. FOLLOW A COMMON PROTOCOL

LAYERING

• MULTIPLE INTERMEDIARIES BETWEEN CLIENT AND SERVER.

CACHEABILITY

• RESPONSE CAN BE CACHEABLE STATELESSNESS

• 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 MITP MEADERS.

DIVIDED INTO POUR PARTS

REQUEST HEADERS

· CLIENT TO SERVER.

RESPONSEHENDERS

· SERVER TO CLIENT.

REPRESENTATION HEADERS

• INFORMATION ABOUT THE BODY OF THE RESPONSE. PAY LOAD HEADERS

· INPORMATION ABOUT THE PAYLOAD DATA.

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- WIDELY USED HTTP HEADERS

Accept

TYPE OF DATA CLIENT CAN UNERSTAND.

Accept - Encoding

WHICH ENCODING METHOD CHENT CAN UNDERSTAND.

Authorization

USED TO PASS CREDENTIALS SO THAT SERVERS 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.

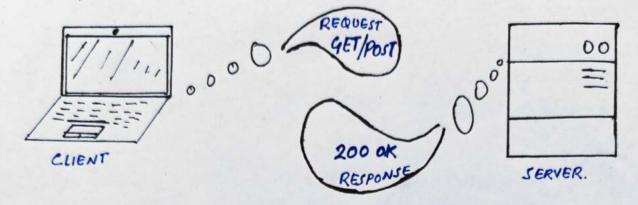
Access - Control -4110W - Origin.

WHICH ORIGIN IS ALLOWED TO ACCESS
THE RESOURCES.

Access - Control -Allow - Methods.

WHICH METHODS ARE ALLOWED TO ACCESS THE CROSS-ORIGIN RESOURCES.

HTTP STATUS CODE



* 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 MAS BEEN MOVED
PERMANENTLY TO THE NEW URL.

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Cherchoo

400 BAD REQUEST INVALID SYNTAX.

· TELEGRAM- NOTES GALLERY 401 UNAUTHORIZED CREDENTIALS ARE INCORRECT.

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

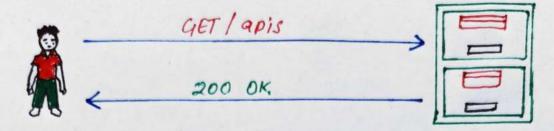
404 NOT FOUND INVALID URL

429 TOO MANY REQUESTS USER MAS SENT TOO MANY REQUESTS IN A GIVEN AMOUNT OF TIME.

SERVER ERROR

SERVER DOES NOT KNOW YOW TO HANDLE THE UNEXPECTED SITUATION.

HTTP REQUEST METHODS





THE GET method is the most common of all these request methods.

It is used to fetch the desired resources from the server.

The Postmethod is used to submit the information to the server.

As we're submitting the data, the Post method 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 dara or response.

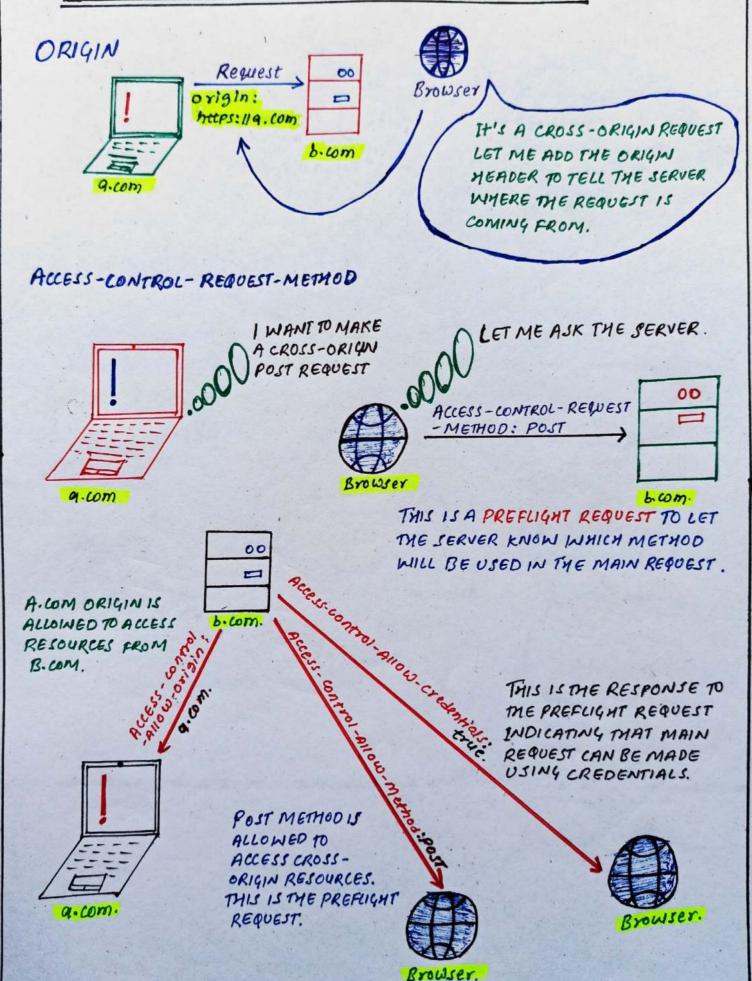
The PATCH method doesn't modify the entire response.

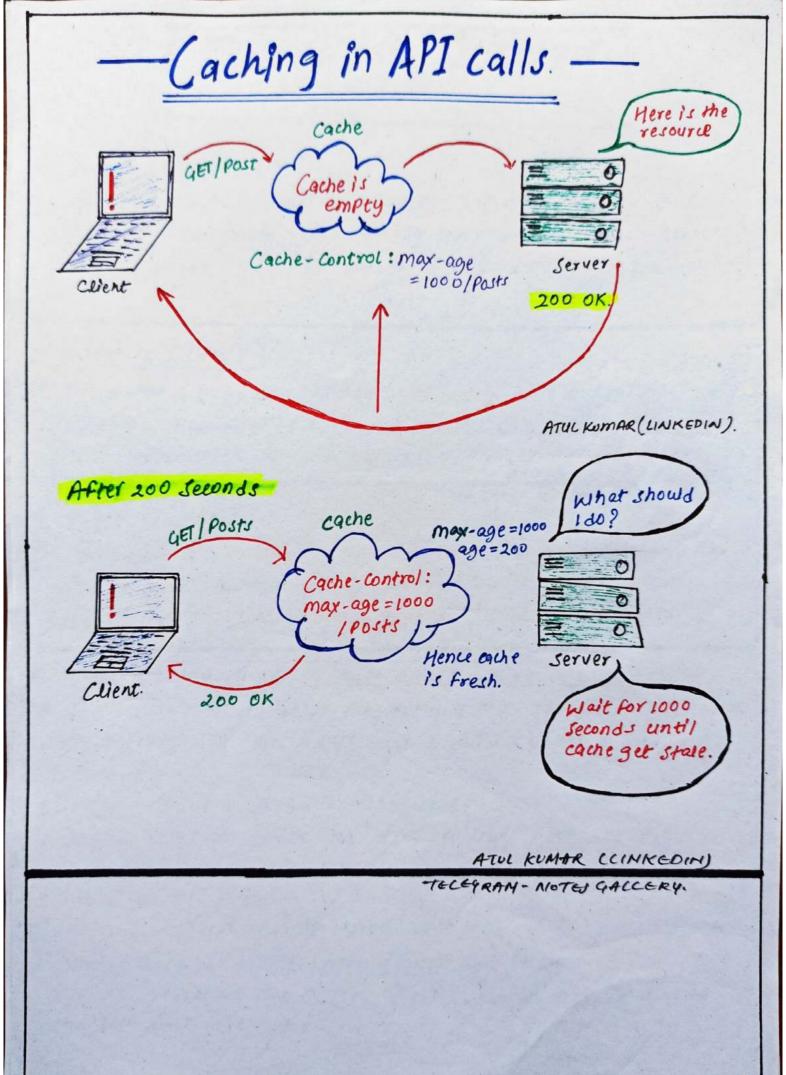


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As the name says, the DELETE request method is used to selete the specified resource. It requests that the origin server delete the resource identified by the Request-URL.

Access Control HTTP Headers





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