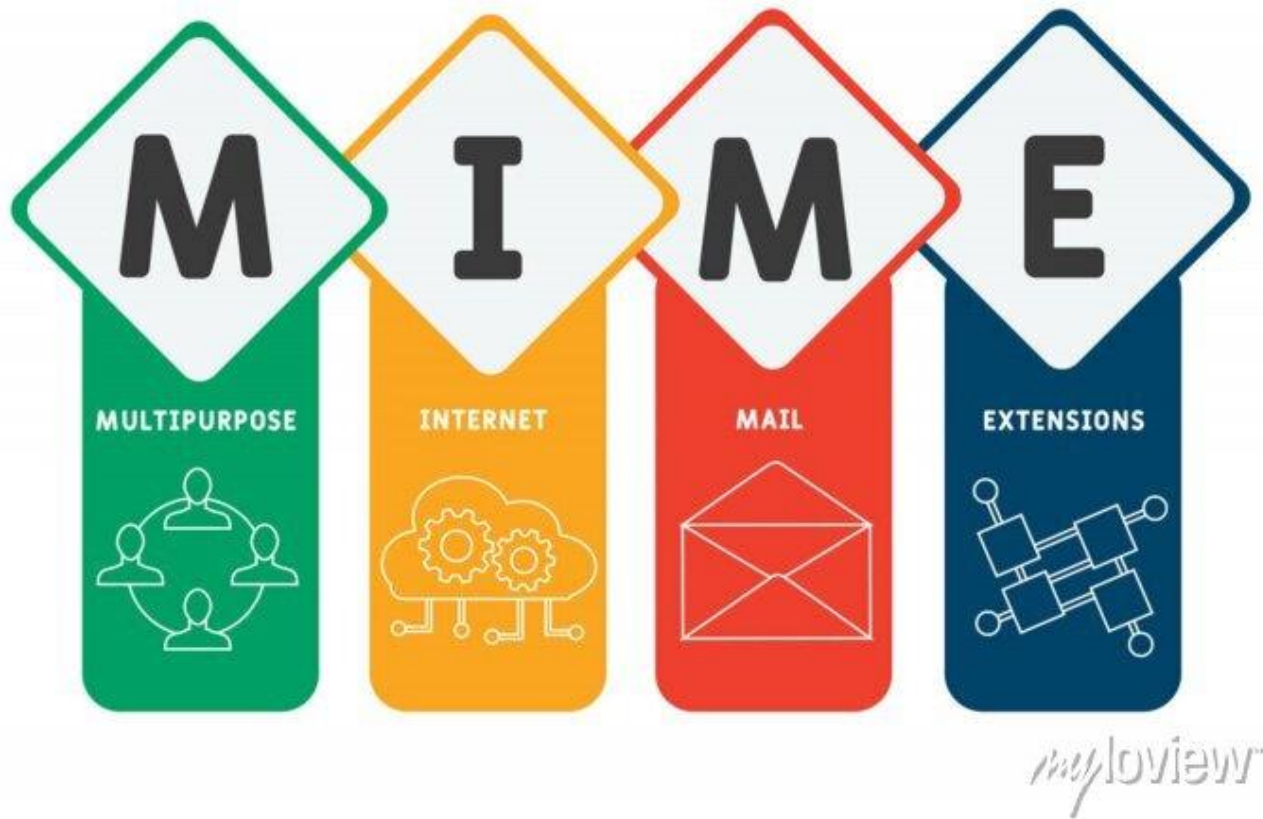


Some concepts related with Web and HTTP



GDSE – AAD

Thanura Silva



A **media type** (also known as a **Multipurpose Internet Mail Extensions or MIME type**) indicates the nature and format of a document, file, or assortment of bytes.

Browsers consider only MIME types not the file extension to process URL

Safe methods

- No alter the state of server
- Read only operations

A blue rounded rectangular button with the text "GET" in white capital letters.

GET

An orange rounded rectangular button with the text "HEAD" in white capital letters.

HEAD

A green rounded rectangular button with the text "OPTIONS" in white capital letters.

OPTIONS

Non-Safe methods

- Alter the state of server
- Write operations

POST

DELETE

PUT

Idempotent

GET

DELETE

PUT

HEAD



vs

Non -Idempotent

POST

..All safe methods are also idempotent,
but **not all idempotent methods are safe**.
For example, PUT and DELETE are both
idempotent but unsafe.

<https://developer.mozilla.org/en-US/docs/Glossary/Safe/HTTP>

Headers

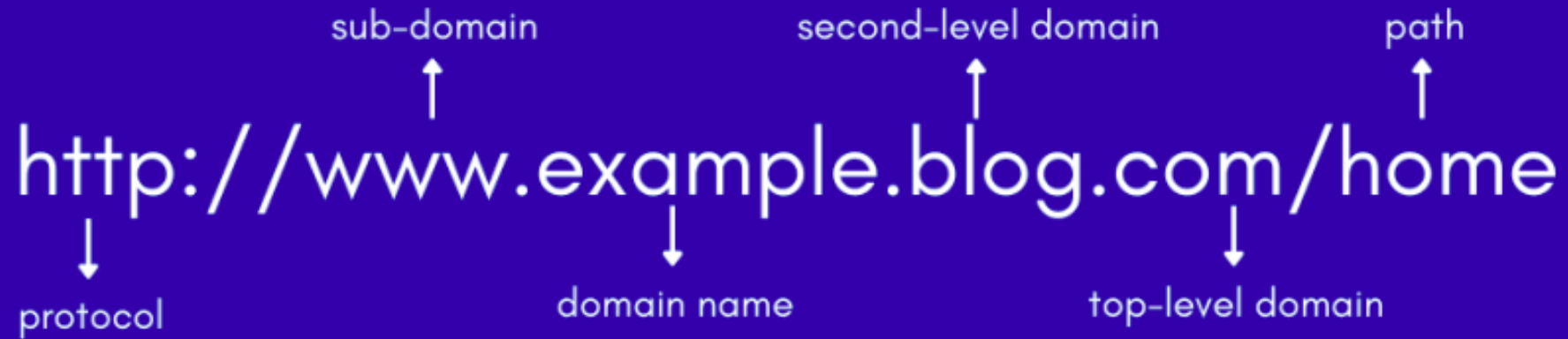
Additional information that pass client and server may in both request and response

method	path	protocol
GET	/tutorials/other/top-20-mysql-best-practices/	HTTP/1.1

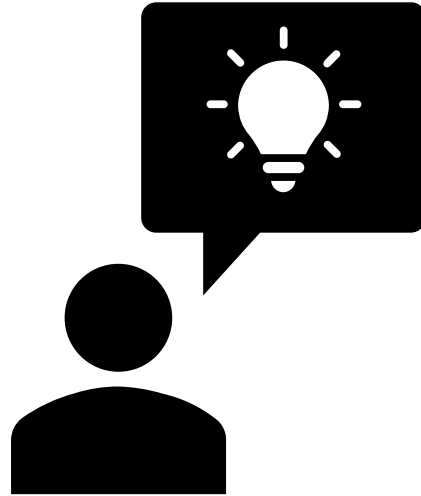
```
Host: net.tutsplus.com
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 300
Connection: keep-alive
Cookie: PHPSESSID=r2t5uvjq435r4q7ib3vtdjq120
Pragma: no-cache
Cache-Control: no-cache
```

HTTP headers as Name: Value

Structure of URL



Simple request



<https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS>

Preflight request

- CORS related
- Check the eligibility for use some headers and data
- OPTION request
- Most probably automatically done by browser

OPTIONS /resource/foo

Access-Control-Request-Method: DELETE

Access-Control-Request-Headers: origin, x-requested-with

Origin: https://foo.bar.org

Preflight request – cont.

Request:

OPTIONS /resource/foo

Access-Control-Request-Method: DELETE

Access-Control-Request-Headers: origin, x-requested-with

Origin: http://localhost:4200

Response:

HTTP/1.1 204 No Content

Connection: keep-alive

Access-Control-Allow-Origin: http://localhost:4200

Access-Control-Allow-Methods: POST, GET, OPTIONS, DELETE

Access-Control-Max-Age: 86400