**RESOURCE ADDRESSING**

HTTP resource are identified using URLs (Uniform Resource Locator) or more HTTP URLs

* Scheme
* Authority
* Host - Domain Name (resolved to an IP Address using DNS) of the server where the resource resides.
* Path to resource – Resolved relative to the document root on the server. It may refer to a static or dynamic resource.
* Query – Typically provided as key value pairs with ampersand (&) separator between the key value pairs.
* Fragment Identifier - #addr, serves as the bookmark.

**HTTP REQUEST METHOD**

Standard Method

* Transfer a current selected representational GET of the target resource, the retrieved resource is returned in the message body of the response as an ENTITY.
* Must be supported by all compliant HEAD to retrieved META DATA.

**POST** – Processing of the representation enclosed in the message body if the request.

* Submitting HTML form data.
* Chrome handles URL even if it is long.
* Information will not display at URL and using lag.
* Search Friendly URL – query part can’t be generated.

**PUT** – Creates or replace the state of the target resource with state defined by the representation enclosed in the request message payload.

**DELETE** – Remove the association between the target resource and it’s current functionality.

**OPTION** – Allows you to query

* Communication option available for the target resource.
* Request target may be \*, in which case the request applies to the server in general rather than a specific resource.

**TRACE** – It echoes back whatever the server sends.

* Application-level loop-back of the request message.
* Used for testing/troubleshooting of the real response chain.

**CONNECT** – Request the establishment of a tunnel to the destination origin server.

* Commonly used to create an end-to-end virtual connection through on or more proxies which can be secured using TLS.

**METHOD PROPERTIES**

Safe Method – Does not expect if the effect is read-only effect

* + GET, HEAD, OPTION, TRACE

Idempotent – Make several or multiple identical request with the method is the same as he effect of a single such request.

* + GET, HEAD, OPTION, TRACE, PUT, DELETE

Cacheable – Indicated that the response to method can be stored for future reuse.

* + GET, HEAD, POST
  + Aware of specification.
* Note: POST is not safe nor idempotent method.