# HTTP request

An HTTP request is **a protocol used for sending and receiving information over the internet**

A standard HTTP request is **a message that a client (usually a web browser) sends to a server**, **requesting action or data**.

The basic structure of an HTTP request consists of a **request line, a set of headers, and an optional message body**.

The **request line** **contains**

* **the method** (e.g. GET, POST, PUT, DELETE), **the resource being requested** (e.g. a URL), and the **HTTP version being used**.

The headers provide additional information about the request,

* such as the user-agent,
* content type, and
* authorization credentials.

The message body,

* if present, contains data that is sent along with the request.

Here's an example of a basic HTTP request:

GET /example HTTP/1.1

Host: www.example.com

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110 Safari/537.36

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,\*/\*;q=0.8

In this example, the client is requesting the resource located at "/example" on the server "www.example.com" using the GET method and the HTTP/1.1 protocol. The headers provide additional information about the request, such as the user-agent, which identifies the client software being used, and the Accept header, which specifies the types of data that the client can accept in response.

## What has a http request to do with an API

An api request is a tailored http request to request action/data from an API

## Post request

request.getlist(

request.GET.get

this is used to fetch query parameters

ex: in this url <http://localhost:8000/api/scenario_planner/selection?create_from_date=2021-11-11&create_to_date=2021-12-29> create\_from\_date and create\_to\_date can be fetched using the above method

ex1: request.GET.get(‘create\_from\_date’,None) will fetch create\_from\_date from the request URL, the None will be useful when you don’t have any values passed in the url, see ex2

ex2: for the same above URL if you try a=request.GET.get(‘promo\_id’,None) then a will have no value assigned because promo\_id is not passed in URL, it will assign nothing to a

request.data

request.object\_list

## Get request