

Language Independent API Access demonstration:

This was written for AssetCloud, but also applies to InventoryCloud. URLs for InventoryCloud are in the form: <https://firsttenant.waspinventorycloud.com>

but substitute your own tenant name in place of "firsttenant".

Prerequisites

1. Postman – Install Postman from <https://www.getpostman.com/>
2. API Token – Generate and Save the API token. Refer to https://firsttenant.waspassetcloud.com/Help/Std/Edit_User.htm
3. You must use your own tenant name in place of "firsttenant" in Steps 2, 4, and 5.
4. Application URL – AssetCloud URL - <https://firsttenant.waspassetcloud.com/>.
5. List of APIs - <https://firsttenant.waspassetcloud.com/Help/API>.

Note: You must use your own tenant name (or domain name). The tenant name will appear in place of "firsttenant" in the URL mentioned in Steps 2, 4, and 5.

- API Name - Example:



6. Request Format – JSON.

Note: POST APIs only support JSON input. Below shown is the sample JSON code.

Request Formats

application/json, text/json

Sample:

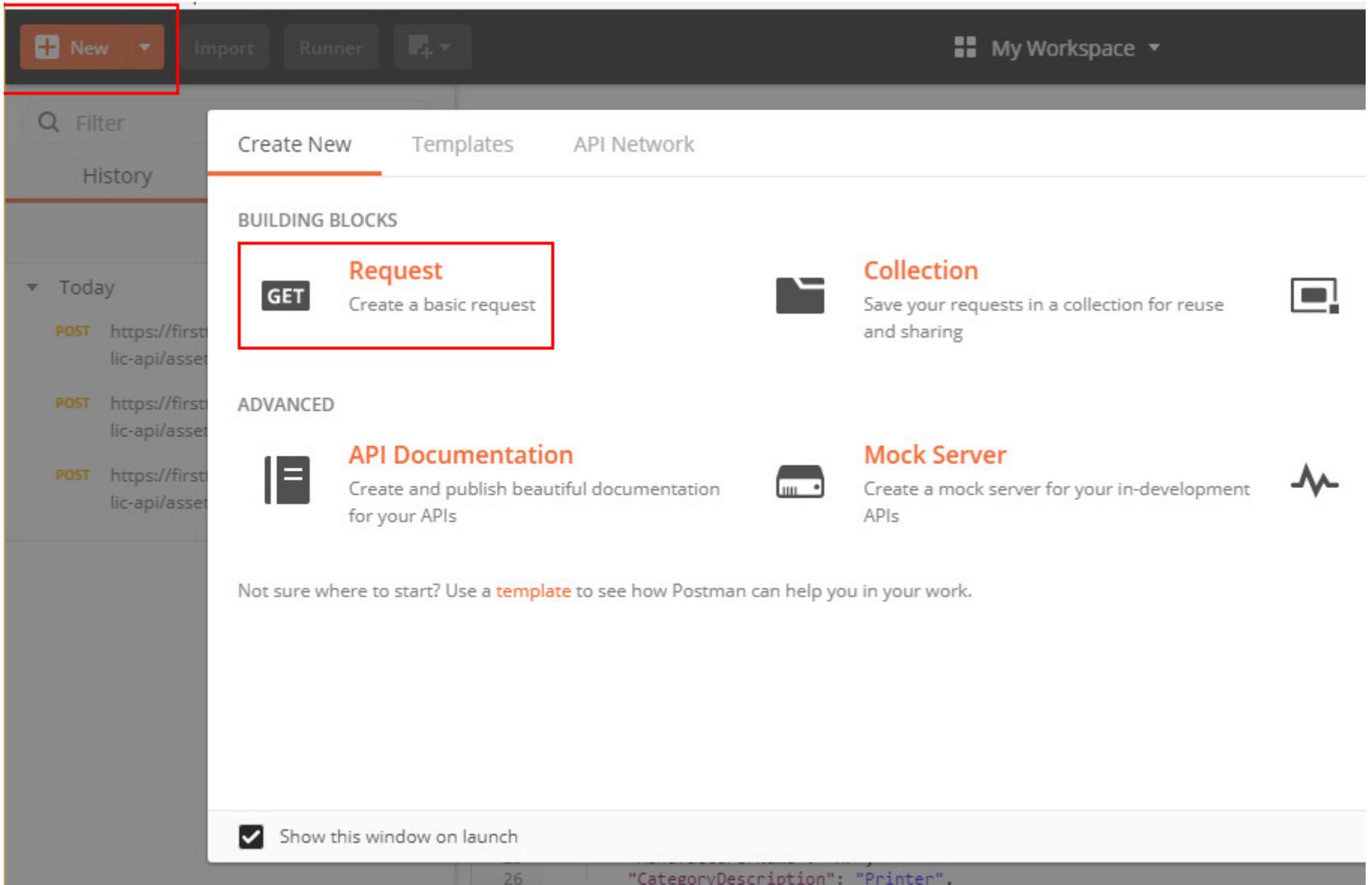
```
{  
  "SearchPattern": "sample string 1"  
}
```

Sending a POST Request

To send a POST Request, follow the steps below:

1. Launch the Postman Application.

2. **Create New Screen** will appear. Click on the [Request- Create a basic request](#) link. You can also Click on the **New button** as shown below:



3. **Save Request** Screen will appear.

4. Enter the Request & Collection details.
 - Enter the **Request Name**. For Example – assetInfosearch.
 - Enter the **Request Description** (optional).
 - Search for Collection or Folder or Click on the **+Create Collection** or **+Create Folder** button to create new collection or folder.

SAVE REQUEST ✕

Requests in Postman are saved in collections (a group of requests).
[Learn more about creating collections](#)

Request name

Request description (Optional)

```
The method returns all active assets whose asset tag or asset description contains the specified texts that are entered on the combo box. Note: This is a Post API to avoid limitations inherent to passing parameters on the URL.
```

Descriptions support Markdown

Select a collection or folder to save to:

✕

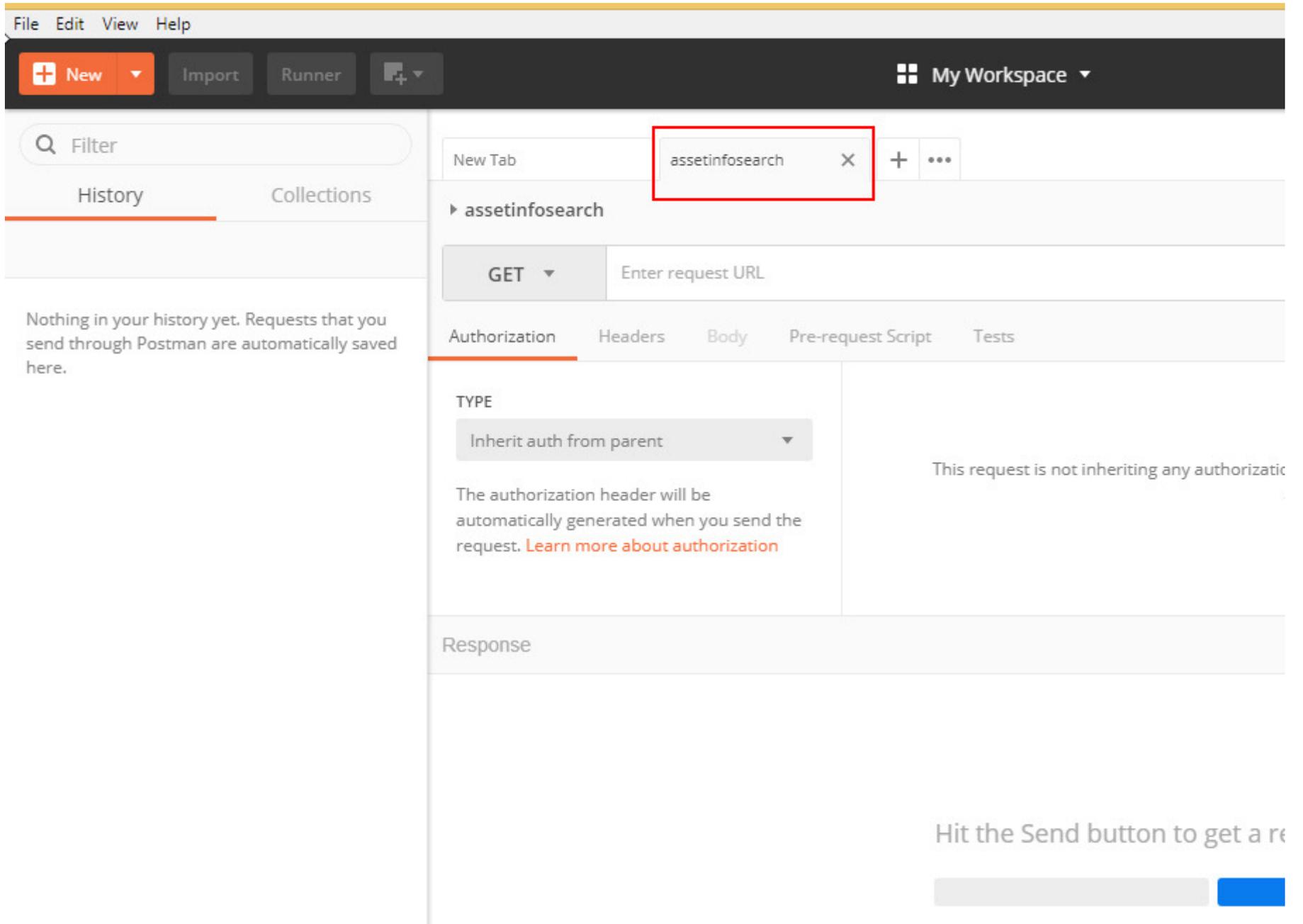
Search Results + Create Collection "Asset Public API"

- Asset Public API
- Asset Public API

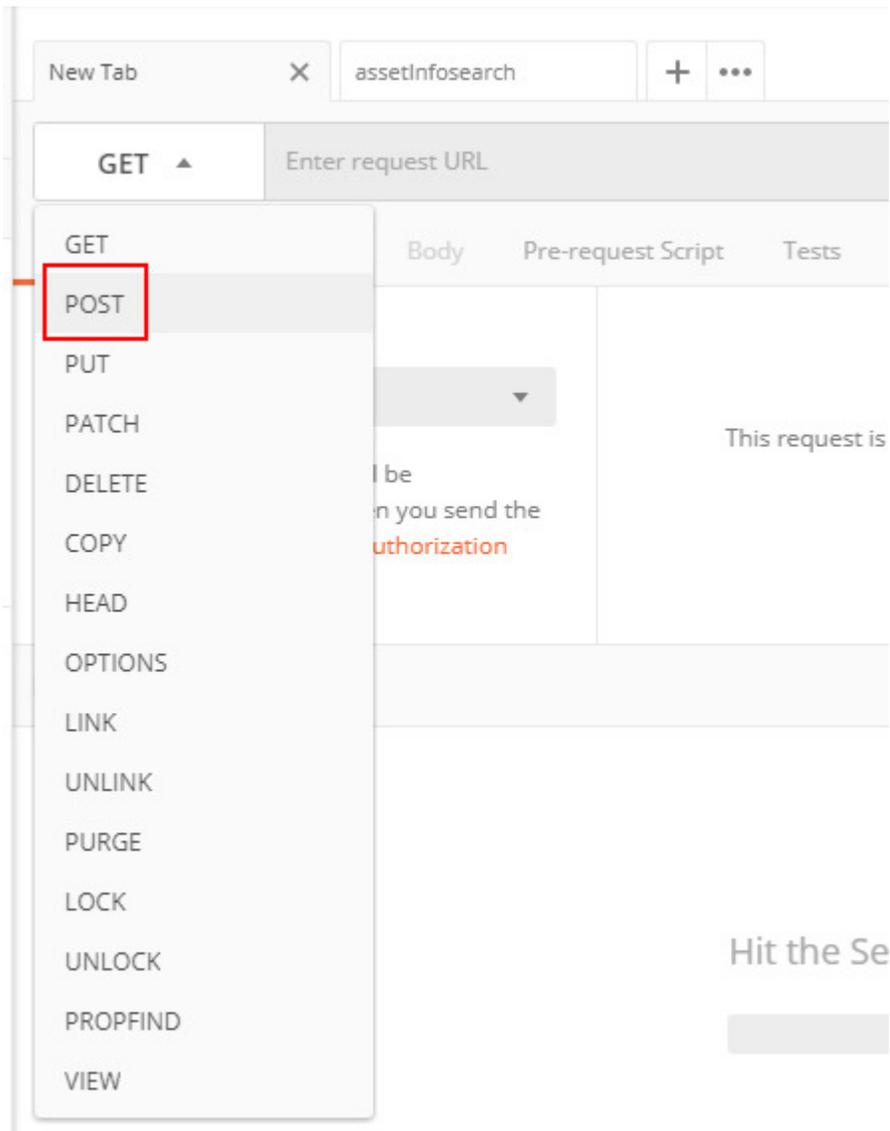
Cancel Save to API Public API

5. Click on the **Save to API Public API** button.

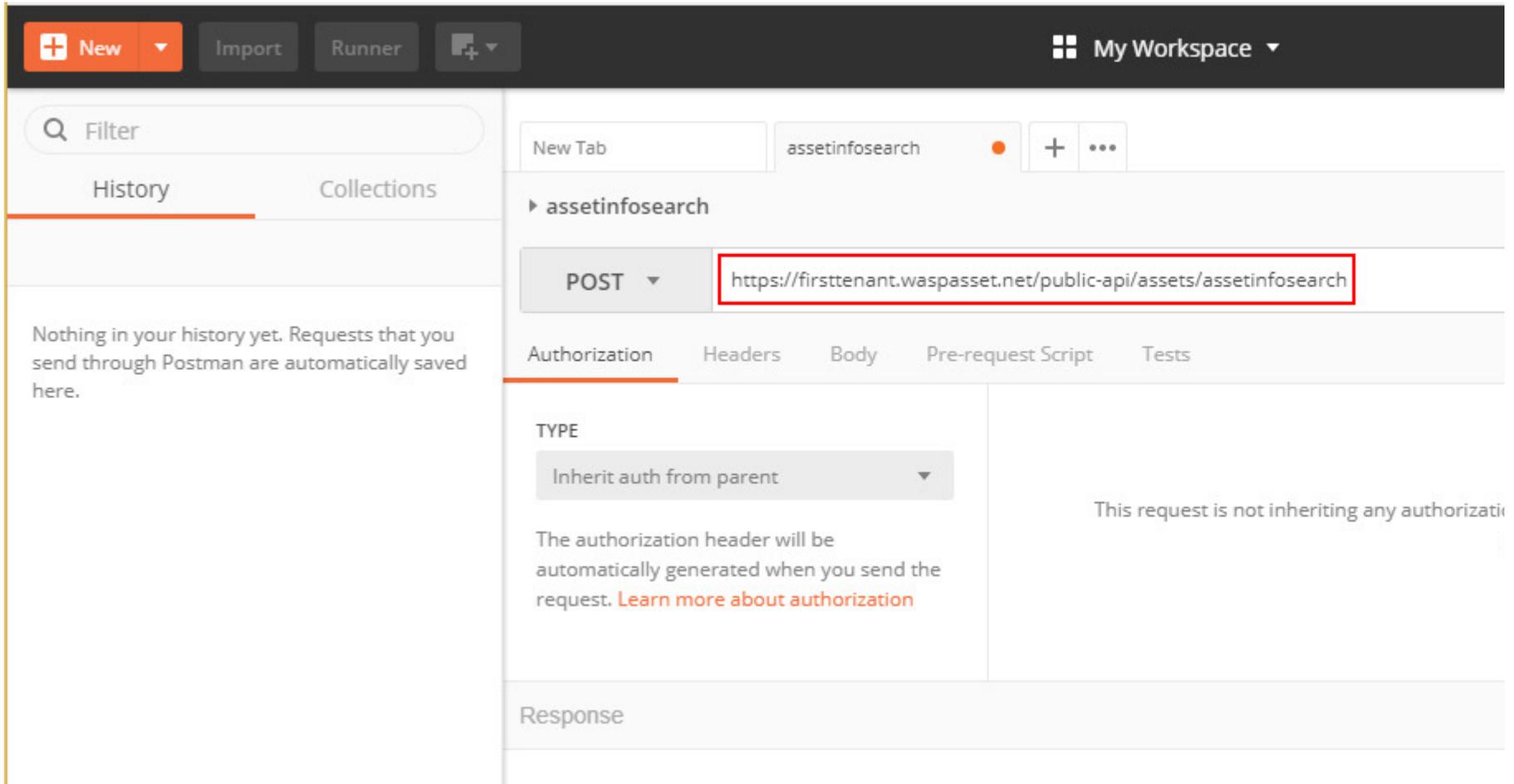
6. **My Workspace** screen will appear. The screen will have a tab – assetInfosearch (Request Name).



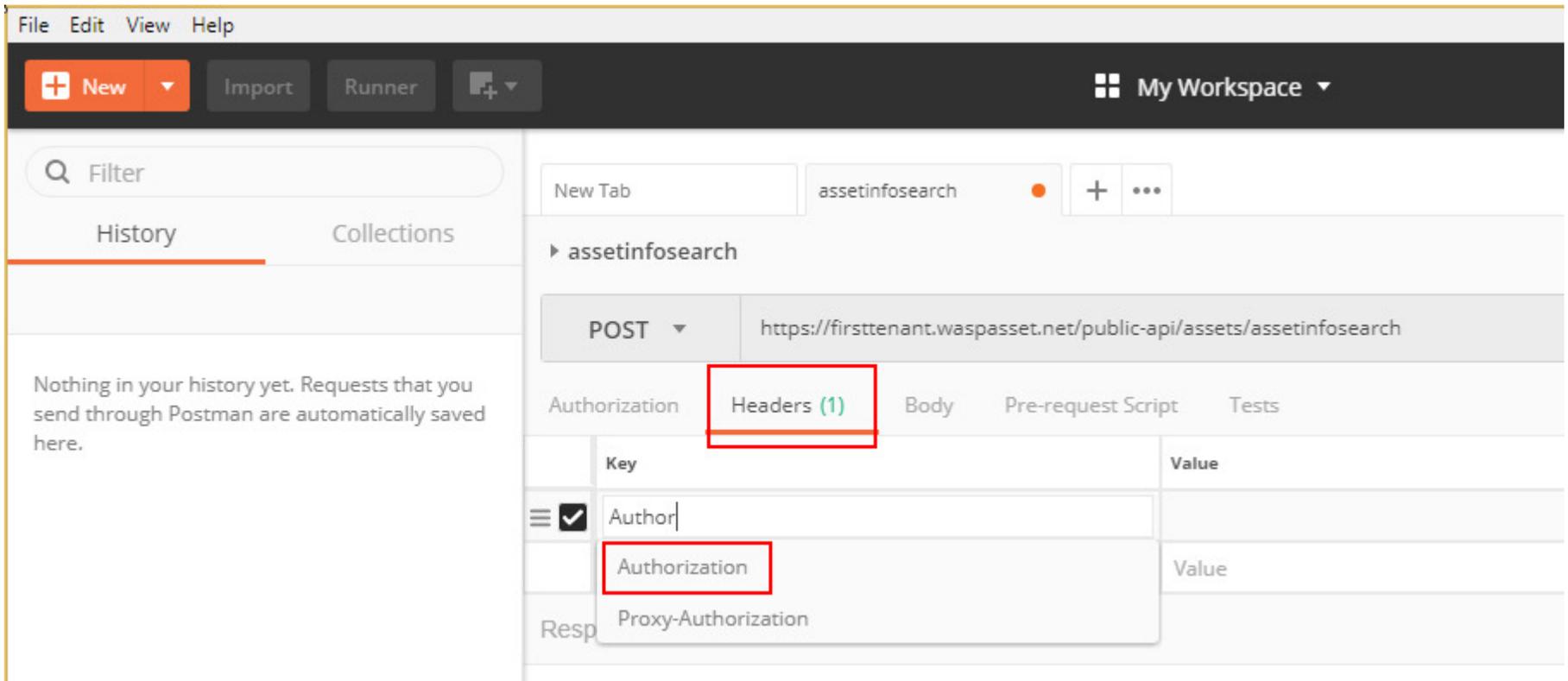
7. Select the HTTP Method. Choose **POST**.



8. Enter **Request URL**. The Request URL is the combination of your application URL and the API Name.



9. Click on the **Header** tab provided in the **My Workspace** screen.
 - Select the **Key**. Choose “Authorization”.



- Select the **Value**. Enter “Bearer”, insert a space and then paste the copied token. The Response will not appear if the token is pasted without space. Refer [Edit User](#) for downloading and copying the API token.

assetinfosearch

POST <https://firsttenant.waspasset.net/public-api/assets/assetinfosearch> Params Send

Authorization Headers (1) Body Pre-request Script Tests

Key	Value	Description
<input checked="" type="checkbox"/> Authorization	Bearer	
New key		Description

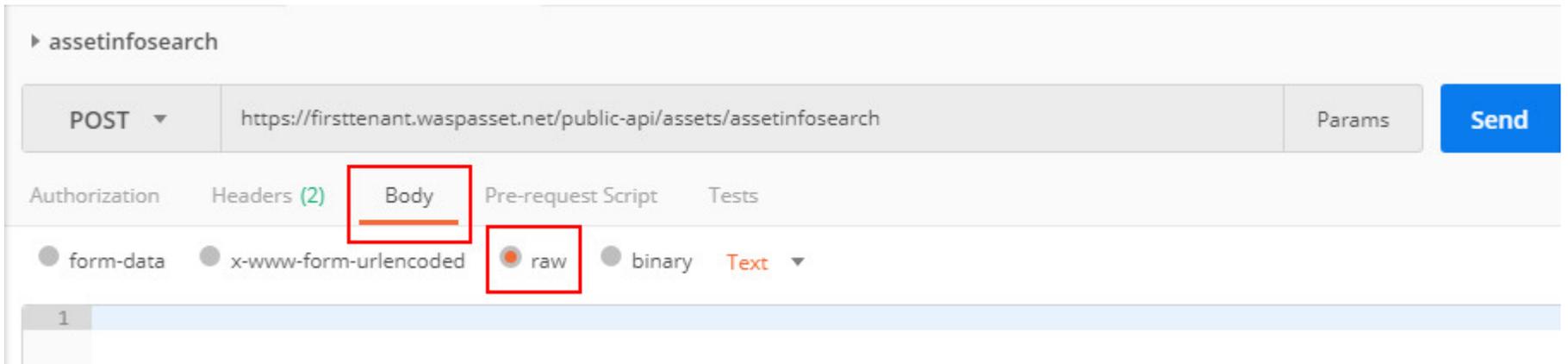
Response

```

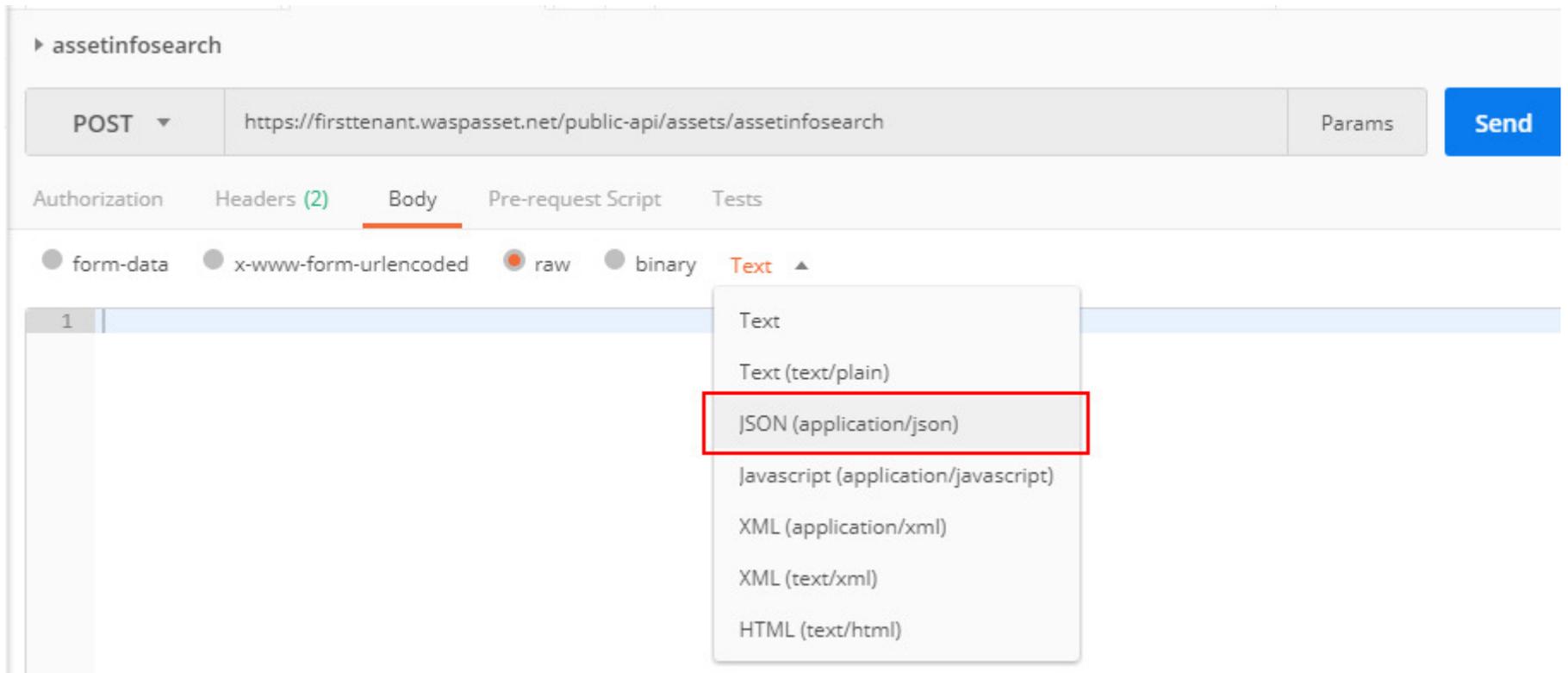
JlJlZnJlc2hfdG9rZW49TE1KNWhzUXRIRWJkd0pWdyRwSn
p4clhyN2dEXIZxji5pc3N1ZWQ9MDcvMTgvMjAxOCaAwNT
oxNDowNCYuZXhwaXJlc20wNy8yMC8yMDE4IDAwaWJAw
OjAwJlRva2VuPUhKb09pR3d1eEZzcGh1MDI1aVnjQ2VxZ
Ek1MUNxUUMtS2NzcDd4MCOyaVhDekd2U19HTmNae
Gt1ZTUyLXRBSnFZV0xIWNtN1NMSWJUUFJIZmpQdmVx
dUIZOTFiZHFSUDd5NI95SmRhLUgwRHF2T2xsY3c3SjJlDQ
WtNTHQ1dE51T2dmbi0tbG1WeEZTQ0FqOEQ5MjI2NnV
NaV9rNTVyU0xTa0dkSzhZb0VqQzlvUlk2b0pZT3d4cFRY
R1lrQ1I2cDZVRDhja25xUIE1MmJlc3JBdkwzNHZtUkphN
mhsMUJhT1ZpT0JJMkc5QXJsLV95N29WZWtyYTdXeUdzU
zZvWGikYXR1UUK4OFho5Fp2ZXlpQmpBUUY2TIFkaVJFT
XJDNuDMUjRETzdZc05mbXBBNDd0dVJJOVRnU19KOHB
6MU9PdnRnNjVnJmNsaWVudF9pZD1Nb2JpbGVbc3NidF
9maXJzdHRlbnFudCZVc2VySWQ9MTM0NTk1M2QtOTA
3NS00OGNiLWJjMjYtMjk1ZDEzNDc1Y2NijNjvbGVzPUFQS
SBMb2dpbiZodHRwOi8vc2NoZW1hcy54bWxzbnFwLm9
yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsYWltcy9uYW1l
PWxpamFuYWlyLmoyMkbnbWFpbC5jb20maHR0cDovL
3NjaGVtYXMueG1sc29hcC5vcmcvd3MvMjAwNS8wNS9p
ZGVudGI0eS9jbGFpbXZvbmFtZS50aW50aWZpZXI9MTM

```

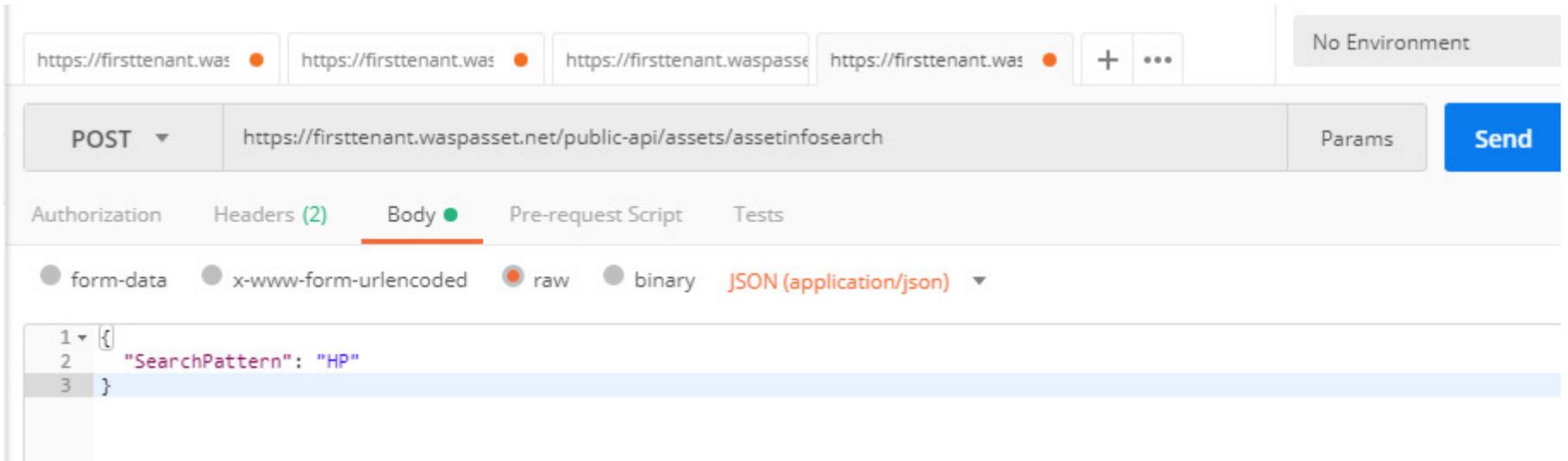
- Enter the **Description** (optional).
10. Click on the **Body** tab provided in the **My Workspace** screen.
- Choose the **“Raw”** radio button.



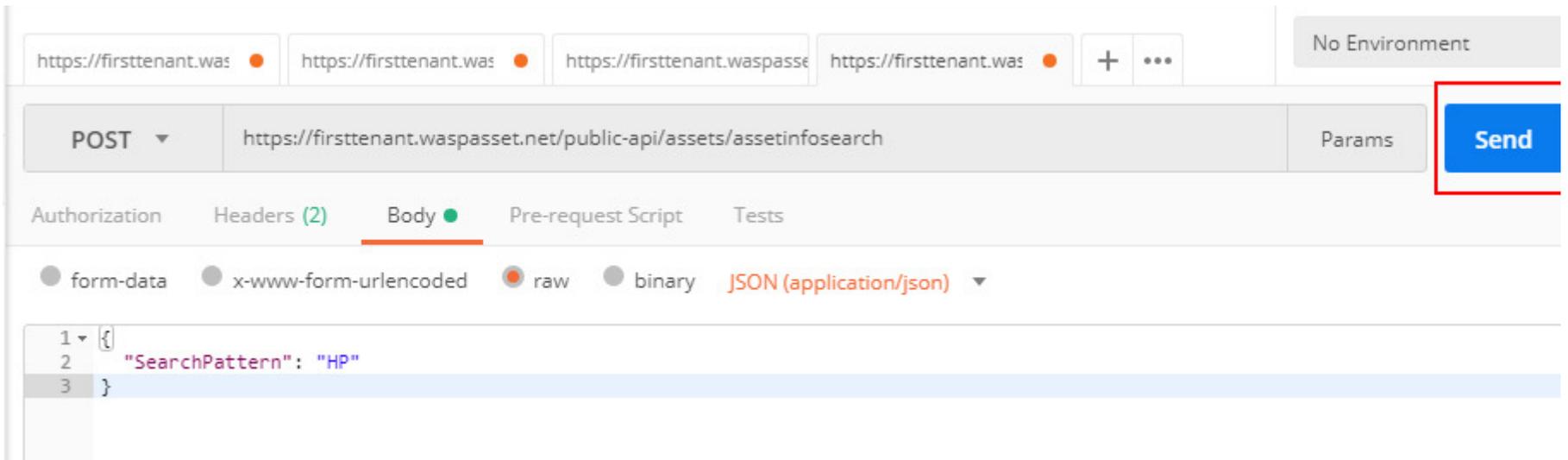
- Choose "JSON (application/json)" from the Content-Type drop-down menu. Once you select the content type, the Header tab will display the Content type (Key) as application/JSON (Value).



- Enter the **JSON Code**. Example – Below shown is the sample JSON Code for public-api/assets/assetinfosearch.



- Click on the **Send** button.



11. The **Response** will appear under **Body > Pretty**. Click on the **Save** button. Example – The response will display the search result of assets that have “HP” in it.

POST https://firsttenant.waspasset.net/public-api/assets/assetinfosearch Params Send

Body Cookies Headers (15) Test Results Status: 200 OK Time: 39

Pretty Raw Preview JSON

```
1 [
2   {
3     "RowNumber": 0,
4     "AssetTag": "10339",
5     "AssetDescription": "HP Officejet Pro X551dw Printer",
6     "AssetClassId": 1,
7     "AssetTypeNumber": "HP Officejet Pro X551dw",
8     "AssetTypeDescription": "HP Officejet Pro X551dw Printer",
9     "AssetSerialNumber": "1200909",
10    "AssetModelName": "Lazer",
11    "AssetRecordStatus": 0,
12    "HasAttachment": false,
13    "AssetTransQuantity": 0,
14    "CustomFields": [],
15    "AttachmentsToAdd": [],
16    "AttachmentsToDelete": []
17  },
18  {
19    "RowNumber": 1,
20    "AssetTag": "10342",
21    "AssetDescription": "HP Officejet Pro X551dw Printer",
22    "AssetClassId": 1,
23    "AssetTypeNumber": "HP Officejet Pro X551dw",
24    "AssetTypeDescription": "HP Officejet Pro X551dw Printer",
25    "AssetSerialNumber": "1200915",
26    "AssetModelName": "X551dw",
27    "AssetRecordStatus": 0,
28    "HasAttachment": false,
```

12. On Saving, a message will appear indicating that the “Response is saved in examples and you edited before saving. You can also add anew example with your custom response.”

assetinfosearch Untitled Example

Responses are now saved in Examples, which you can edit before saving. You can also add new examples with your own custom response. [Learn More](#)

NAME

assetinfosearch

EXAMPLE REQUEST

POST ▼ https://firsttenant.waspasset.net/public-api/assets/assetinfosearch

Headers (2) Body ●

	Key	Value	Description	⋮	Bulk Edit
<input checked="" type="checkbox"/>	Authorization	Bearer JJIJZnJlc2hfdG9rZW49TE1KNWhzUXRIRWJkd...			
<input checked="" type="checkbox"/>	Content-Type	application/json			
	New key	Value	Description		

EXAMPLE RESPONSE

Body Headers (15) Status 200 OK

Pretty Raw Preview JSON ▼ ≡

Note:

- If you use the Invalid token, following message will get displayed.

POST ▾ <https://firsttenant.waspasset.net/public-api/assets/assetinfosearch> Params [Send](#)

Could not get any response

There was an error connecting to <https://firsttenant.waspasset.net/public-api/assets/assetinfosearch>.

Why this might have happened:

- **The server couldn't send a response:** Ensure that the backend is working properly
- **Self-signed SSL certificates are being blocked:** Fix this by turning off 'SSL certificate verification' in *Settings > General*
- **Proxy configured incorrectly** Ensure that proxy is configured correctly in *Settings > Proxy*
- **Request timeout:** Change request timeout in *Settings > General*

- Status - **429 Too Many Requests** is returned by the API if there is too much API traffic. You must slow down sending API request when you encounter this type of error. Examine the **Wasp-OverloadProtection-Reset** value in the response headers to determine the number of seconds you need to wait before sending the new request. Make sure to wait for the time displayed in the response header. If you send a request before the value has elapsed, your request will not get processed and a new retry value will be returned.

Body Cookies **Headers (14)** Test Results Status: 429 Too Many Requests Time: 23

Connection → keep-alive

Content-Length → 0

Date → Mon, 23 Jul 2018 08:43:28 GMT

Expires → -1

Pragma → no-cache

Server → Microsoft-IIS/8.5

Server → Microsoft-IIS/8.5

WWW-Authenticate → Wasp-OverloadProtection-Reset 15.90639

X-AspNet-Version → 4.0.30319

X-Powered-By → ASP.NET

- Status – **415 Unsupported Media Type** is returned if the user sets the Content-Type which is not supported by the application for example – Text, Javascript, HTML.

Body Cookies **Headers (15)** Test Results Status: 422 Unprocessable Entity Time: 9

Cache-Control → no-cache, no-store

Connection → keep-alive

Content-Length → 1044

Content-Type → application/json

Date → Mon, 23 Jul 2018 08:51:39 GMT

Expires → -1

Pragma → no-cache

Server → Microsoft-IIS/8.5

Server → Microsoft-IIS/8.5

WaspResult → WaspResult

- Status – **500 Internal Server Error** is returned when an unexpected condition is encountered. For example – Error in Json code.

POST ▼ https://firsttenant.waspasset.net/public-api/asset-types/infosearch Params Send

Body Cookies Headers (14) Test Results Status: 500 Internal Server Error Time: 272

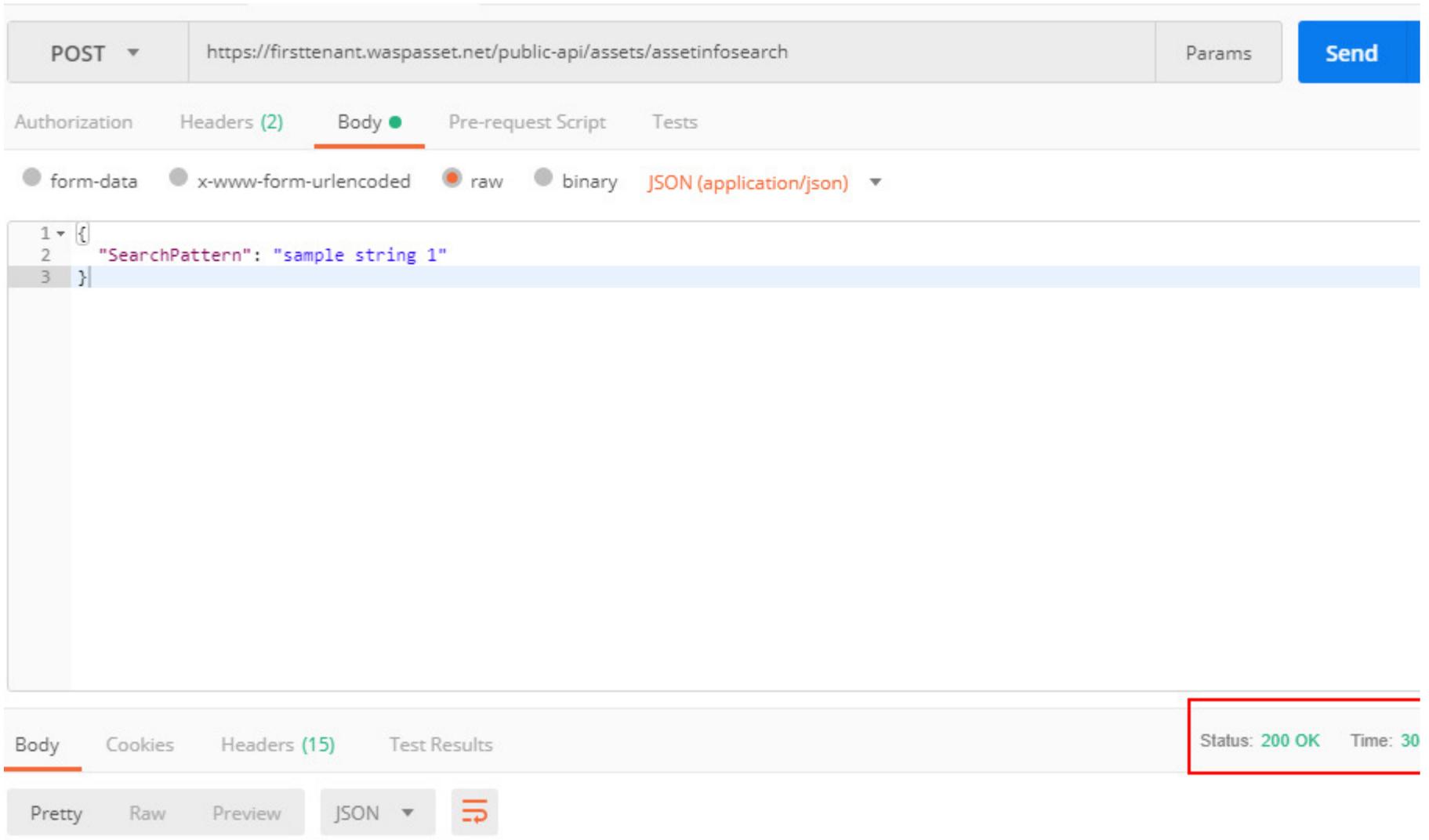
Pretty Raw Preview JSON ↻

```
1 {
2   "resultCode": -20000,
3   "message": "* Unexpected error occurred. Please contact tech support.",
4   "httpStatusCode": 500,
5   "fieldName": "Object reference not set to an instance of an object."
6 }
```

500 Internal Server Error

A generic error message, given when no more specific message is suitable.

- Status – **200 OK** is a standard response for any successful HTTP request.



13. The **History** tab will store all requests you sent using the POSTMAN application and **Collection** tab is a group of saved requests. Both History and Collection tab appears on the left-hand side of the Postman application.

History	Collections
Clear all	
▼ Today	
POST	https://firsttenant.waspasset.net/public-api/assets/assetinfosearch
POST	https://firsttenant.waspasset.net/public-api/asset-types/infosearch
POST	https://firsttenant.waspasset.net/public-api/asset-types/infosearch
POST	https://firsttenant.waspasset.net/public-api/asset-types/infosearch
POST	https://firsttenant.waspasset.net/public-api/assets/assetinfosearch

History	Collections
	
▼ 	API Public API 1 request
	GET assetadvancedinfosearch
▶ 	Asset Public API 2 requests
▶ 	Asset Public API 0 requests
▶ 	AssetTypeInfoSearchAPI 2 requests