**POSTMAN**

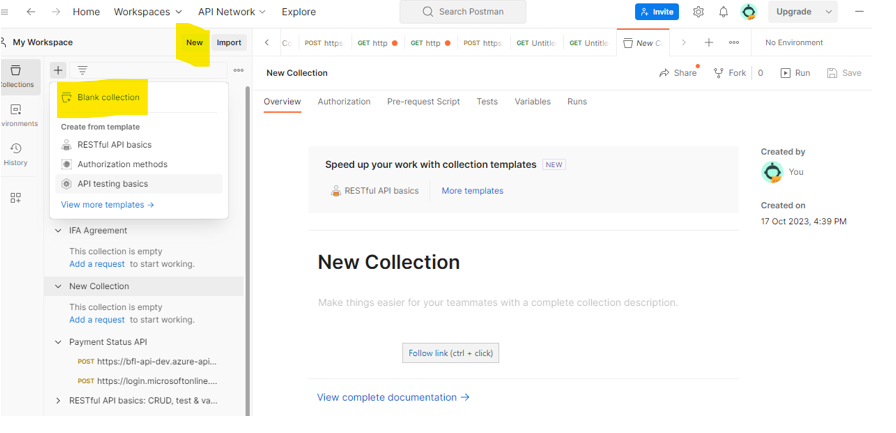
**Postman is an API platform that simplifies the API lifecycle and streamlines collaboration.**

**Create and send API requests in Postman**

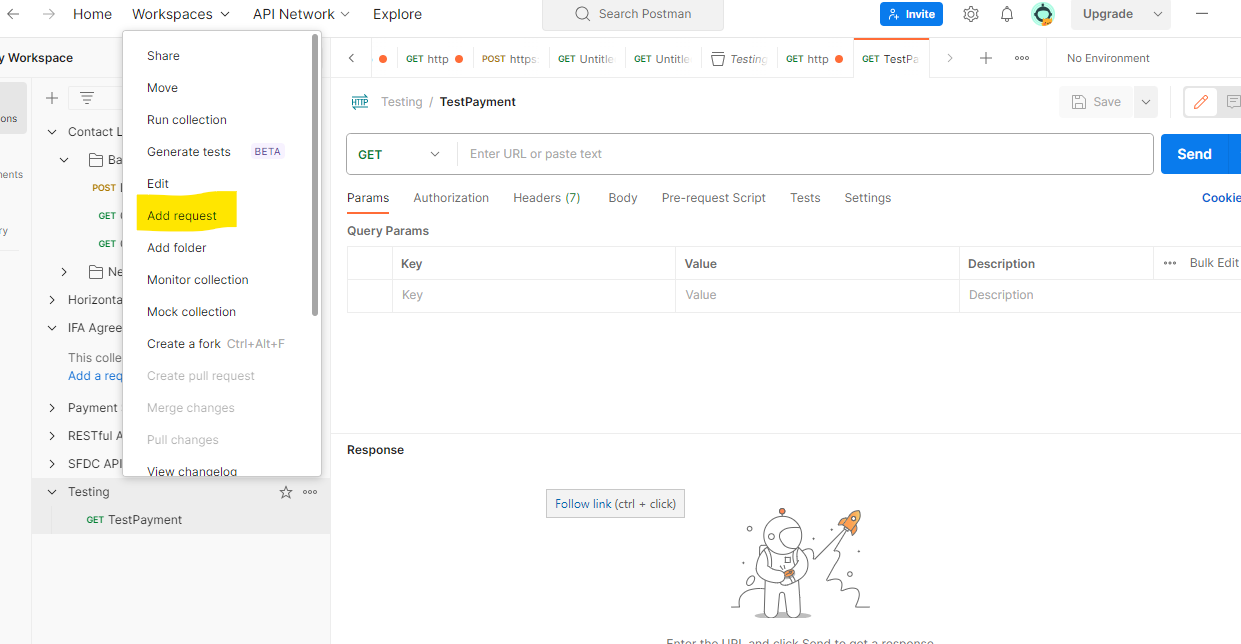
You can send requests in Postman to connect to APIs you are working with. Your requests can retrieve, add, delete, and update data. Whether you are building or testing your own API, or integrating with a third-party API, you can send your requests in Postman. Your requests can send parameters, authorization details, and anybody data you require.

When you send a request, Postman displays the response received from the API server in a way that lets you examine, visualize, and if necessary, troubleshoot it.

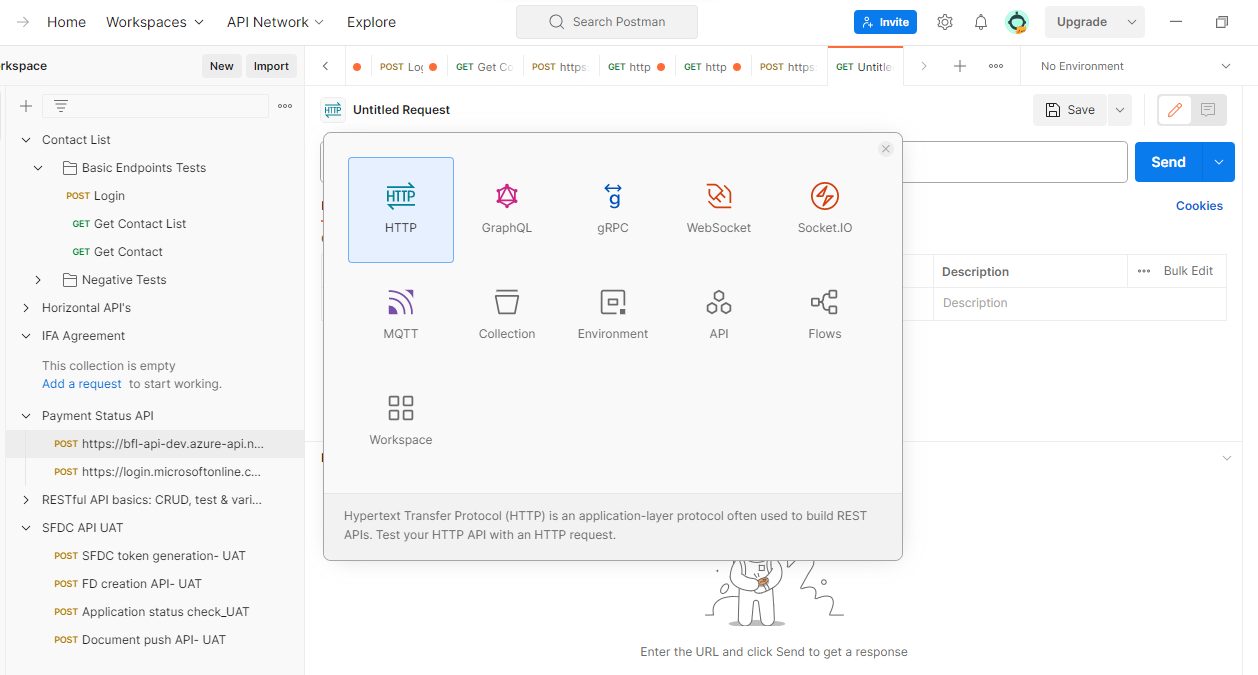
1. **Click on New and Select Blank Collection**



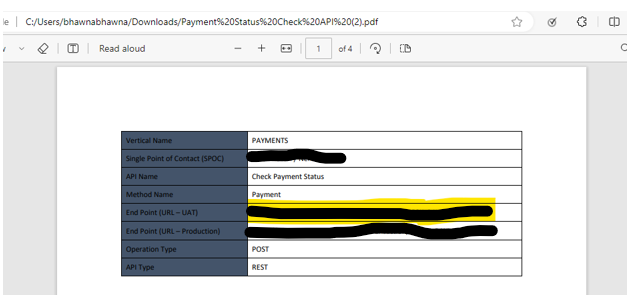
1. **Add Request -**



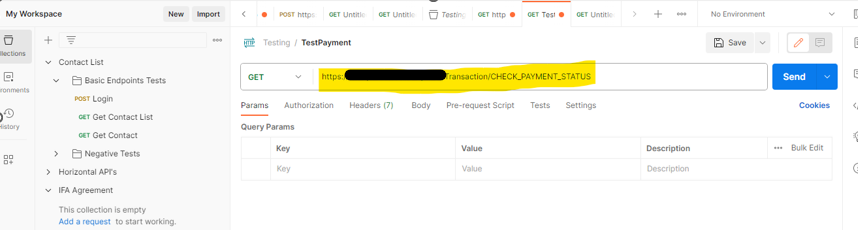
1. **Request should be in HTTP format-**



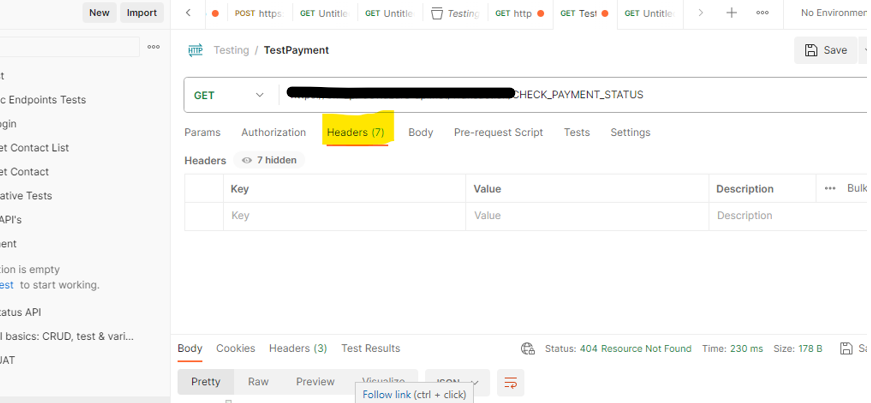
1. **In your API document, check for API link-**



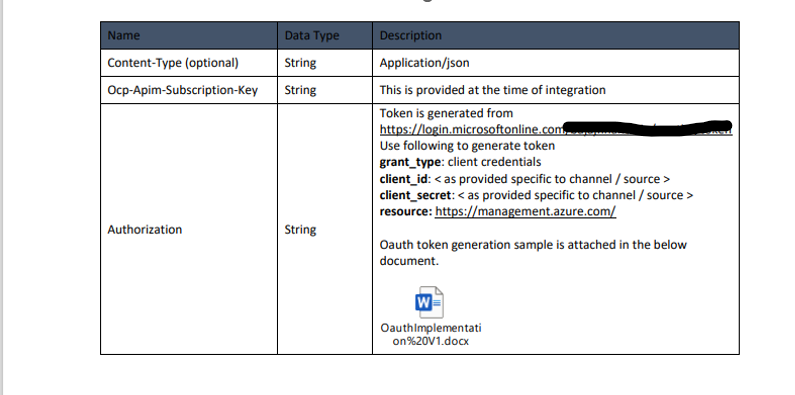
1. **Copy the API Link and paste in the request URL body-**



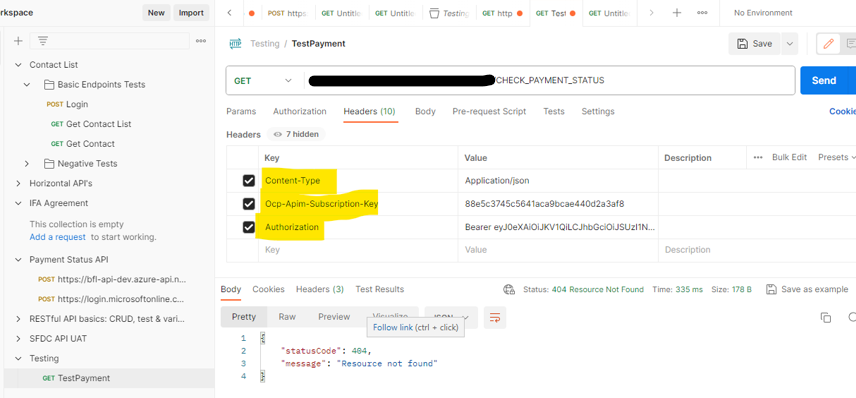
1. **Click on Headers and input the required fields to fetch data-**



1. **In API document- Key and Value for giving input in Headers should be given- example-**



1. **Add Content-type/ Authorization/ OCP-Apim-Subscription Key in Headers** in postman which is provided by IT team.



1. **Generate Token and add it in Authorization- using Bearer.**

Steps to generate token using client id and secret key provided by team. Refer given document-



**Example**-

Generating Access Token Value: URL : https://login.microsoftonline.com/token Headers : Content-Type:application/x-www-form-urlencoded

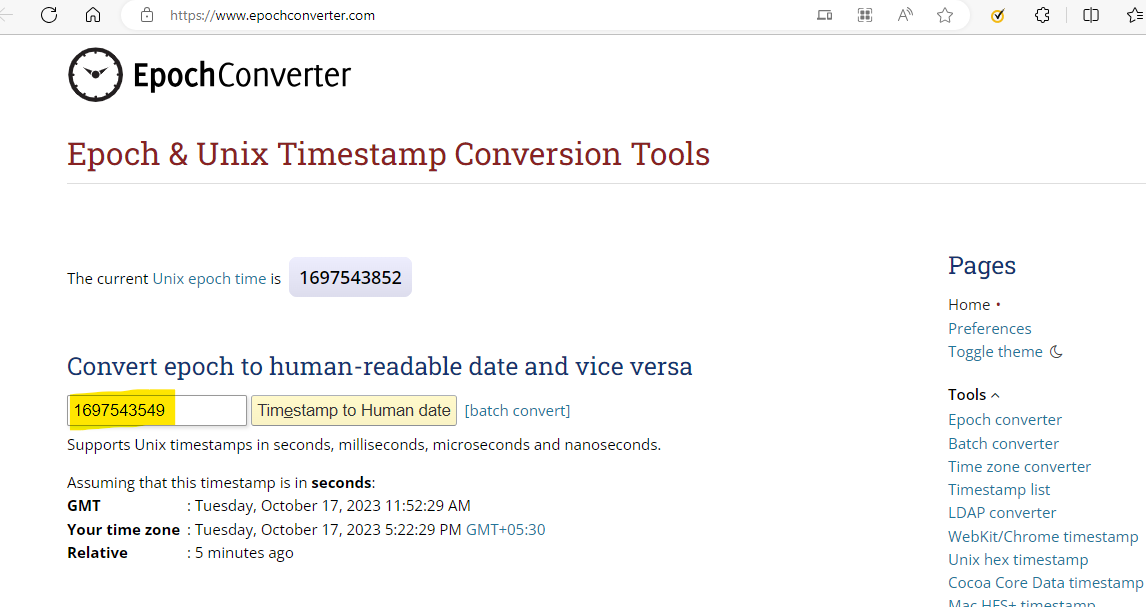
Request: grant\_type:client\_credentials

client\_id:dummy79a24abd-1792-490eca6a6c client\_secret:dummyknM4UrdM+vg6PO8tkKp0c5qIEt8PP6PdYCh/EvgepSw= resource:https://management.azure.com/

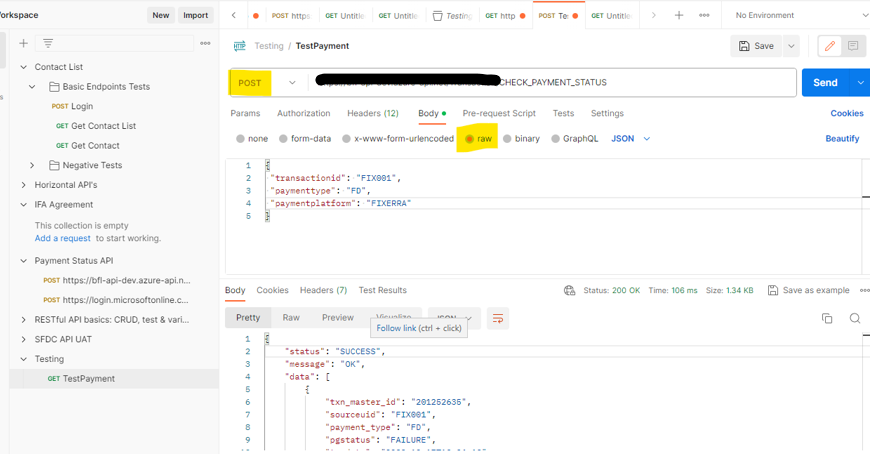
Response: { "token\_type": "Bearer", "expires\_in": "86399", "ext\_expires\_in": "86399", "expires\_on": "1561186636", "not\_before": "1561099936", "resource": "https://management.azure.com/", "access\_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6IkN0ZlFDOExlLThOc0M3b0MyelFrWnBjcmZPYyIsImtpZC I6IkN0ZlFDOExlLThOc0M3b0MyelFrWnBjcmZPYyJ9.eyJhdWQiOiJodHRwczovL21hbmFnZW1lbnQuYXp1c mUuY29tLyIsImlzcyI6Imh0dHBzOi8vc3RzLndpbmRvd3MubmV0LzcxMGRlMWQzLTI5MDEtNDY0Ny04OW U3LTNiMDFmMWMyODA2ZC8iLCJpYXQiOjE1NjEwOTk5MzYsIm5iZiI6MTU2MTA5OTkzNiwiZXhwIjoxNTYx MTg2NjM2LCJhaW8iOiI0MlpnWUZCYy9wbHRQZit2U2VHeFBqc2Z6MkVYQmdBPSIsImFwcGlkIjoiNzlhMjR hYmQtMTc5Mi00OWRmLTg5MDgtZWRmMTBlY2E2YTZjIiwiYXBwaWRhY3IiOiIxIiwiaWRwIjoiaHR0cHM6L y9zdHMud2luZG93cy5uZXQvNzE}

1. **If in Given Response of Token Generation- if you want to check validity of the token- then click on given link and enter expires on value in it.**

[Epoch Converter - Unix Timestamp Converter](https://www.epochconverter.com/)



1. **Now add query in Request Body. Also, set method as POST. Click on Send and get Response.**



1. **You will now Get Response such as-**

{

    "status": "SUCCESS",

    "message": "OK",

    "data": [

        {

            "txn\_master\_id": "201252635",

            "sourceuid": "FIX001",

            "payment\_type": "FD",

            "pgstatus": "FAILURE",

            "txndate": "2023-10-17T12:26:19",

            "initiated\_date": "2023-10-17T12:25:01",

            "loantype": **null**,

            "pg\_trans\_ref": "113048211514",

            "paymentamount": 1.0,

            "payment\_platform": "FIXERRA",

            "paymentchannel": "CCAVENUE",

            "card\_name": "NA",

            "paymentmode": "UPI",

            "merchantid": "286311",

            "bankreferenceno": "81223011639",

            "errdescription": "FAILED-NA-B3"

        }

    ]

}

Now in given response check Error Description. Since I am using Payment Query- So its error descriptions are universal which can be referred from given document

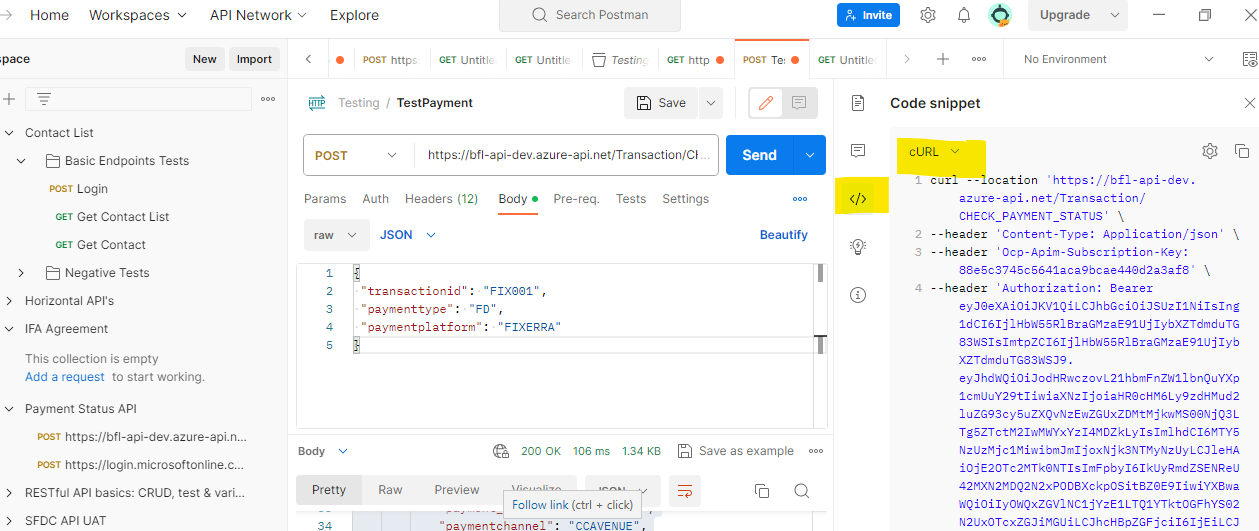
.

"errdescription": "FAILED-NA-B3"

1. **Curl-**

Curl in postman is like writing a code in format that postman understands.

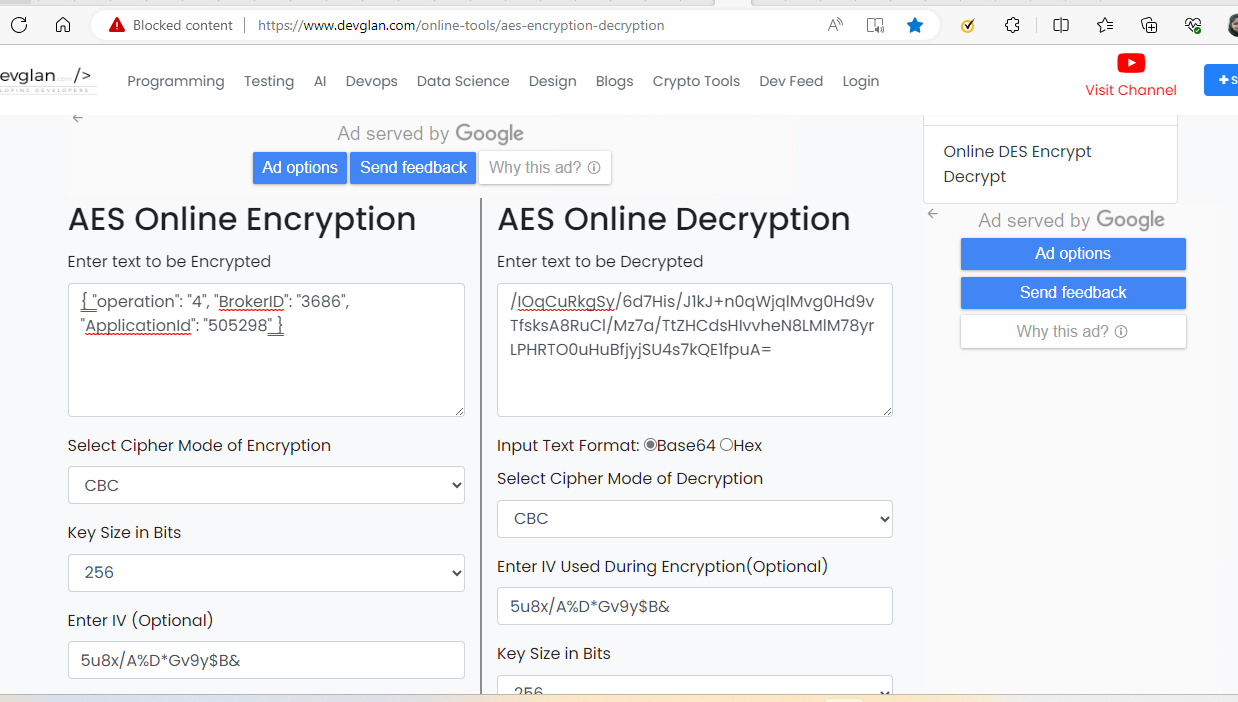
Click on highlighted button to open curl. You can enter code here and click send to get response.



1. **Encryption and Decryption-**

If we want to change response to Encrypted form or decrypt it- we can use given link for same-

[AES Encryption and Decryption Online Tool (devglan.com)](https://www.devglan.com/online-tools/aes-encryption-decryption)



Understand more about cipher modes on this- [Block Cipher modes of Operation - GeeksforGeeks](https://www.geeksforgeeks.org/block-cipher-modes-of-operation/)

2 factor authentication- mini-orange and microsoft API.

1. **Selecting request methods-**

By default, Postman will select the GET method for new request. GET methods are typically for retrieving data from an API. You can use a variety of other methods to send data to your APIs, including the following most common options:

POST - add new data

PUT - replace existing data

PATCH - update some existing data fields

DELETE - delete existing data

