

# Background

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I wrote API tests for FreeviewFV Web defined at <https://fvau-api-prod.switch.tv/>

## Acceptance Criteria

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- The TV Guide shows data for the current day and the following six days for all available free to air channels. (Select any 3 channels based on dvbTriplet).
- The start time should be current system time and next 6 iterations should be one day ahead of the previous iteration.
- EPG data should be sorted based on ascending order of start time.

## API Testing Tools Used

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- Postman

## API Requests

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1. **Retrieving the list of channels**- this get request will give us dvb\_triplet and starttime details. That can be used in the next request.  
**Request:** <https://fvau-api-prod.switch.tv/content/v1/channels>
2. Next request I have formed using different dvb\_triplets from the first request. This request will give TV Guide show data as per the start and end time. I am also ensuring that EPG data is sorted based on the start time.

**Request:**

<https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-18T19:00:00&end=2020-03-18T23:59:00&sort=start&limit=100>

## Query Params:

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- **start:** 2020-03-18T19:00:00 - This is current system date and time.
- **end:** 2020-03-18T23:59:00 - I am using this parameter to restrict the output for each day. I will be displaying programs lists for each day in different iteration.
- **sort:** I am sorting programs output list for the given channel based on start time.
- **limit:** This is used to display upto 100 programs schedule. If more than 100 programs are scheduled for the day then we have to use offset parameter.

### Example:

<https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-24T01:00:00&end=2020-03-24T23:59:00&sort=start&limit=100>

This request will display all the programs for 9Gem channel scheduled for 24<sup>th</sup> March in the ascending order of start time.

## List of requests- for current date to next 6 days based on 3 different dvb\_triplets.

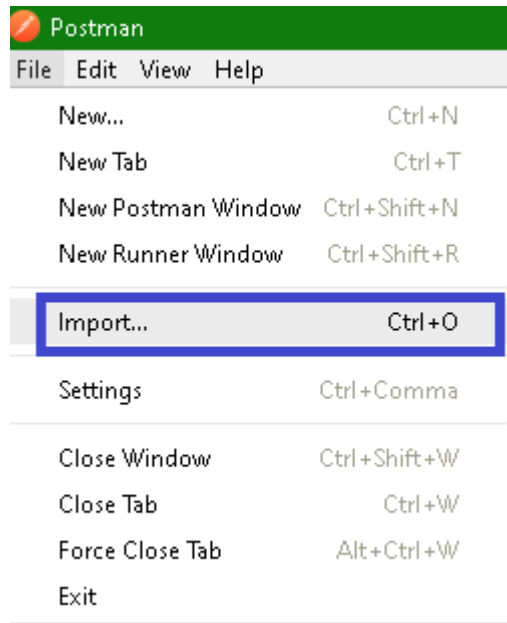
#	API Request	DVB_Triplet	Start Date Time	End Date Time	Channel Name
1	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-18T19:00:00&amp;end=2020-03-18T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-18T19:00:00&amp;end=2020-03-18T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-18T19:00:00	2020-03-18T23:59:00	SBS
2	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-19T00:00:01&amp;end=2020-03-19T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-19T00:00:01&amp;end=2020-03-19T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-19T00:00:01	2020-03-19T23:59:00	SBS
3	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-20T00:00:01&amp;end=2020-03-20T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-20T00:00:01&amp;end=2020-03-20T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-20T00:00:01	2020-03-20T23:59:00	SBS
4	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-21T00:00:01&amp;end=2020-03-21T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-21T00:00:01&amp;end=2020-03-21T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-21T00:00:01	2020-03-21T23:59:00	SBS
5	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-22T00:00:01&amp;end=2020-03-22T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-22T00:00:01&amp;end=2020-03-22T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-22T00:00:01	2020-03-22T23:59:00	SBS
6	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-23T00:00:01&amp;end=2020-03-23T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-23T00:00:01&amp;end=2020-03-23T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-23T00:00:01	2020-03-23T23:59:00	SBS
7	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-24T00:00:01&amp;end=2020-03-24T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3202:0300:0301?start=2020-03-24T00:00:01&amp;end=2020-03-24T23:59:00&amp;sort=start&amp;limit=100</a>	3202:0300:0301	2020-03-24T00:00:01	2020-03-24T23:59:00	SBS
8	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-18T19:00:00&amp;end=2020-03-18T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-18T19:00:00&amp;end=2020-03-18T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-18T19:00:00	2020-03-18T23:59:00	ABC
9	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-19T00:00:01&amp;end=2020-03-19T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-19T00:00:01&amp;end=2020-03-19T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-19T00:00:01	2020-03-19T23:59:00	ABC
10	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-20T00:00:01&amp;end=2020-03-20T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-20T00:00:01&amp;end=2020-03-20T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-20T00:00:01	2020-03-20T23:59:00	ABC
11	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-21T00:00:01&amp;end=2020-03-21T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-21T00:00:01&amp;end=2020-03-21T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-21T00:00:01	2020-03-21T23:59:00	ABC
12	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-22T00:00:01&amp;end=2020-03-22T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-22T00:00:01&amp;end=2020-03-22T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-22T00:00:01	2020-03-22T23:59:00	ABC
13	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-23T00:00:01&amp;end=2020-03-23T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-23T00:00:01&amp;end=2020-03-23T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-23T00:00:01	2020-03-23T23:59:00	ABC
14	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-24T00:00:01&amp;end=2020-03-24T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/3201:0261:02E1?start=2020-03-24T00:00:01&amp;end=2020-03-24T23:59:00&amp;sort=start&amp;limit=100</a>	3201:0261:02E1	2020-03-24T00:00:01	2020-03-24T23:59:00	ABC
15	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-18T19:00:00&amp;end=2020-03-18T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-18T19:00:00&amp;end=2020-03-18T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-18T19:00:00	2020-03-18T23:59:00	9Gem
16	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-19T00:00:01&amp;end=2020-03-19T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-19T00:00:01&amp;end=2020-03-19T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-19T00:00:01	2020-03-19T23:59:00	9Gem
17	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-20T00:00:01&amp;end=2020-03-20T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-20T00:00:01&amp;end=2020-03-20T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-20T00:00:01	2020-03-20T23:59:00	9Gem
18	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-21T00:00:01&amp;end=2020-03-21T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-21T00:00:01&amp;end=2020-03-21T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-21T00:00:01	2020-03-21T23:59:00	9Gem
19	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-22T00:00:01&amp;end=2020-03-22T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-22T00:00:01&amp;end=2020-03-22T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-22T00:00:01	2020-03-22T23:59:00	9Gem
20	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-23T00:00:01&amp;end=2020-03-23T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-23T00:00:01&amp;end=2020-03-23T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-23T00:00:01	2020-03-23T23:59:00	9Gem
21	<a href="https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-24T00:00:01&amp;end=2020-03-24T23:59:00&amp;sort=start&amp;limit=100">https://fvau-api-prod.switch.tv/content/v1/epgs/1012:0400:040A?start=2020-03-24T00:00:01&amp;end=2020-03-24T23:59:00&amp;sort=start&amp;limit=100</a>	1012:0400:040A	2020-03-24T00:00:01	2020-03-24T23:59:00	9Gem

## How to Execute? - ***From Postman***

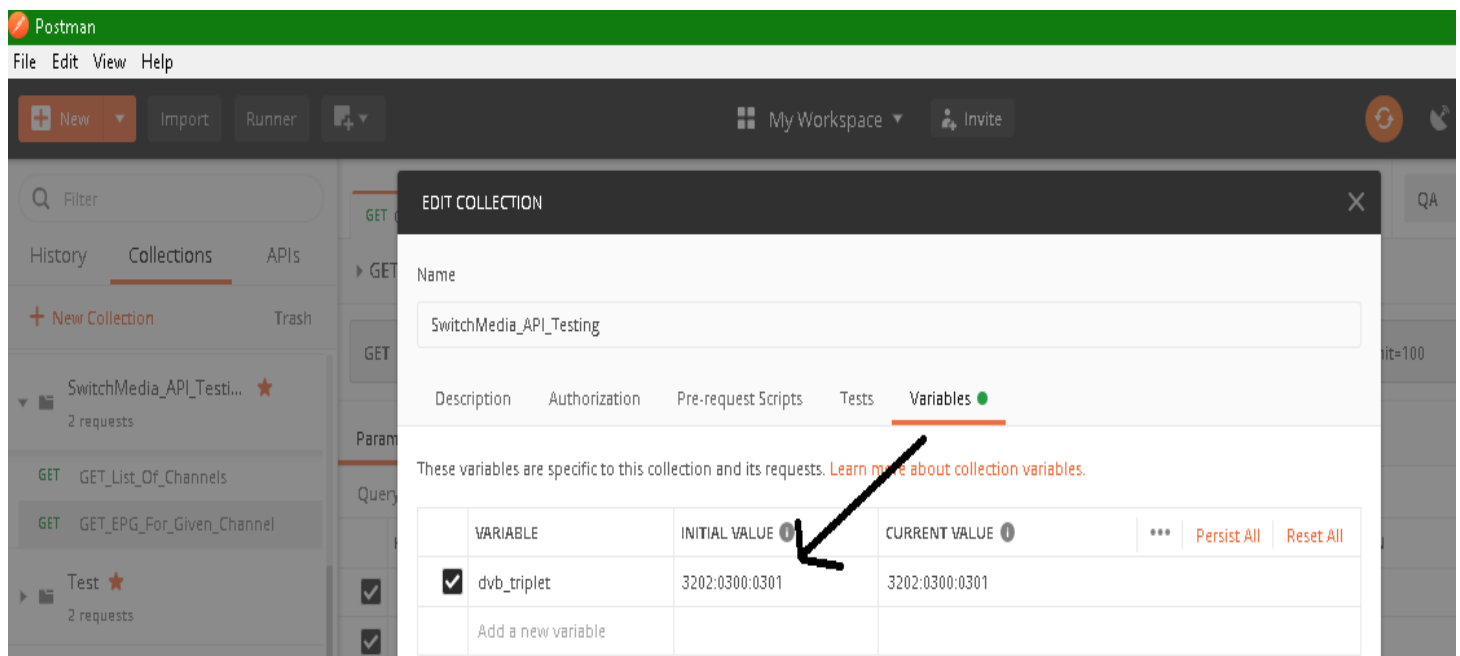
Please follow below steps:

1. Ensure that Postman is installed on the machine. If not please install from <https://www.getpostman.com/downloads/>
2. Clone the repository from Git:  
**Git clone** [https://github.com/shwetargpv/SwitchMedia\\_API\\_Assignment.git](https://github.com/shwetargpv/SwitchMedia_API_Assignment.git)
3. Launch Postman.

4. Import “SwitchMedia\_API\_Testing.postman\_collection.json” collection into Postman. File -> Import



5. Enter DVB\_Triplet ID for the channel you want to get programs lists.



6. Once Done, update the start, and end date in Query Params for the request:

The screenshot shows the Postman interface with a GET request to the URL: `https://fvau-api-prod.switch.tv/content/v1/epgs/{{dvb_triplet}}?start=2020-03-20T00:00:01&end=2020-03-20T23:59:00&sort=start&limit=100`. The query parameters are:

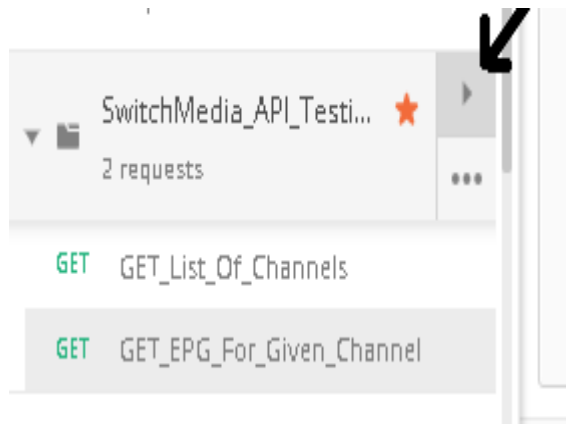
KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> start	2020-03-20T00:00:01	
<input checked="" type="checkbox"/> end	2020-03-20T23:59:00	
<input checked="" type="checkbox"/> sort	start	
<input checked="" type="checkbox"/> limit	100	

The response body is a JSON array of channel data:

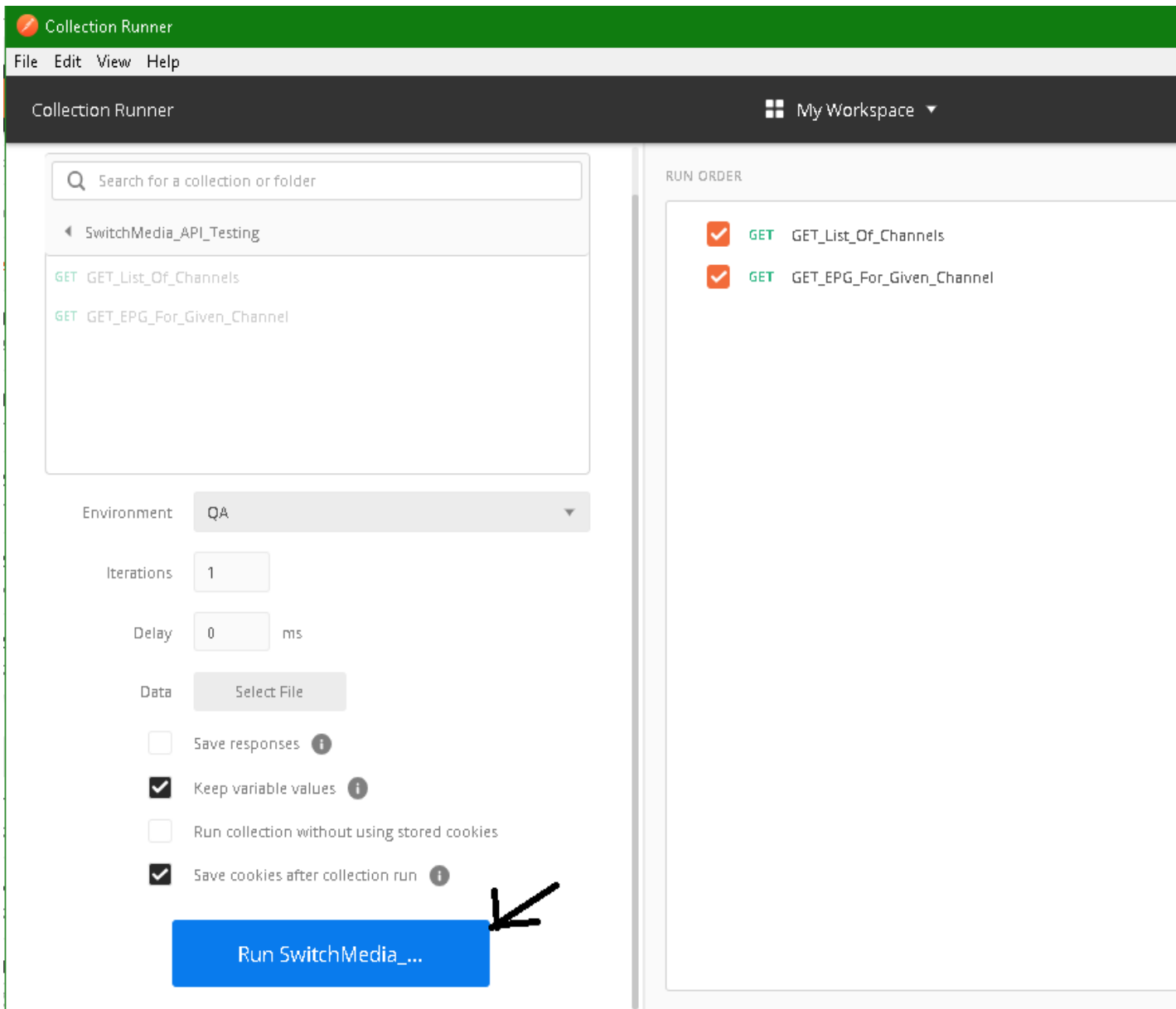
```
1 {
2   "data": [
3     {
4       "id": "88037f38-99f4-4583-be52-236ee110b9d3",
5       "broadcaster_code": "SBS",
6       "channel_id": "SBS",
7       "channel_name": "SBS",
8       "duration": "00:30",
9       "dvb_triplet": "3202:0300:0301",
10      "start": "2020-03-20T00:00:01",
11      "end": "2020-03-20T23:59:00"
12    }
13  ]
14 }
```

7. Click on Send button in the postman.

8. This can also be executed from Collection Runner, click on Run button in front the collection.



9. This will launch a new window, for CollectionRunner. Just click on Run button at the bottom.



10. Once the execution is over, results will be displayed on the console itself.

Collection Runner

File Edit View Help

Collection RunnerRun ResultsMy WorkspaceRun In Command LineDocs

2 PASSED0 FAILED

SwitchMedia\_API\_Testing QA

just now

Run SummaryExport ResultsRetryNew

Iteration 1

GET GET\_List\_Of\_Channels https://fvau-api-prod.swi... ..PI\_Testing / GET\_List\_Of\_Channels200 OK235 ms5.515 KB

Status code is 200

GET GET\_EPG\_For\_Given\_Channel https://fvau-api-prod.swi... ..ing / GET\_EPG\_For\_Given\_Channel200 OK139 ms4.407 KB

Status code is 200