CONNECT CARRIER TUTORIAL

Version	Date	Author	Description
1.0	07-Feb-2020		



Mục lục

I.	Target	3
II.	Prepare	3
1	. Access_token :	3
2	. Api carrier service :	4
3	. Ngrok (If you don't have any domain) :	4
III.	Steps to create and use carrier service:	5
1	. Step 1 : Create connect with carrier:	5
2	. Step 2 : Create an environment to listen request form Haravan:	7
3	. Step 3 : Create order and use shipping feature:	8
4	. Step 4 : Carrier listen Haravan's request to get shipping rates	9
5	. Step 5 : Choose shipping rate and create fulfillment:	10
6	. Step 6 : Get order fulfillment detail :	12
7	Step 7 : Cancel fulfillment:	14
8	Step 8 : Update fulfillment status	16

I. Target

- Have the app installed and get Haravan's access token with right scope.
- Create connection between Haravan and carrier.
- Carrier authentication data from Haravan.
- When the seller choose delivery, sends a request to the carrier for create order fulfillment.
- Carrier can actively update fulfillment status by api.
- When the seller cancel the delivery, sends a request to the carrier for cancel order fulfillment.
- When uninstalled the app, the carrier listen webhook uninstall app and remove the connection between carrier and Haravan.

II. Prepare

1. Access token:

- First, you need Haravan's access token to use Haravan's Api.
- You also need right scope to get Haravan's access token.
- Those scope are:
 - + Scope create/update/delete/read connect with carrier : com.write_shippings, com.read_shippings.
 - + Scope update status order fulfillment : com.write orders, com.read orders.

- Follow URLs below for more information:
 - + Scope:
 - https://docs.haravan.com/blogs/omni/apis-va-scope
 - + Access token:
 - https://docs.haravan.com/blogs/omni/huong-dan-tao-app-ket-noi-api
 - https://www.youtube.com/watch?v=gzJ0 qbrvYM&feature=youtu.be
 - + Webhook (optional, if you use webhook):
 - https://docs.haravan.com/blogs/omni/ket-noi-webhooks

2. Api carrier service :

- Read the file: 16 Api carrier service.pdf
- File content: All information of carrier service api.

3. Ngrok (If you don't have any domain):

- Ngrok (https://ngrok.com/) creates a secure tunnel on your local machine along with a public URL you can use for browsing your local site.
- If you're running your local web server on port 3000, In terminal, you'd type in: ngrok http 3000.
- Note:
 - + A url can be available for 8 hours
 - + Use https://
 - + Use ngrok's web inspection interface to understand the HTTP request and response traffic over your tunnel: http://localhost:4040

```
C:\Users\USER\Desktop\ngrok.exe - ngrok http 3000
                                                                                                                           ngrok by @inconshreveable
                                                                                                                      (Ctrl+C to quit)
                                 7 hours, 55 minutes update available (version 2.3.35, Ctrl-U to update) 2.3.27
Session Expires
Version
                                  United States (us)
Region
                                  http://127.0.0.1:4040
http://d7cf250b.ngrok.io -> http://localhost:3000
 Web Interface
 Forwarding
                                  https://d7cf250b.ngrok.io -> http://localhost:3000
 Forwarding
Connections
                                                   rt1
                                  0
                                           0
                                                   0.00
                                                           0.00
                                                                    0.00
                                                                               0.00
```

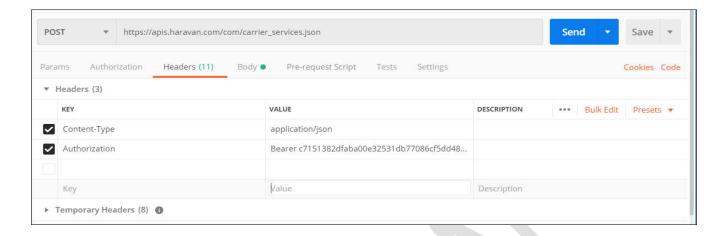
III. Steps to create and use carrier service:

1. Step 1 : Create connect with carrier:

- Use Post man:
 - + Api and method:

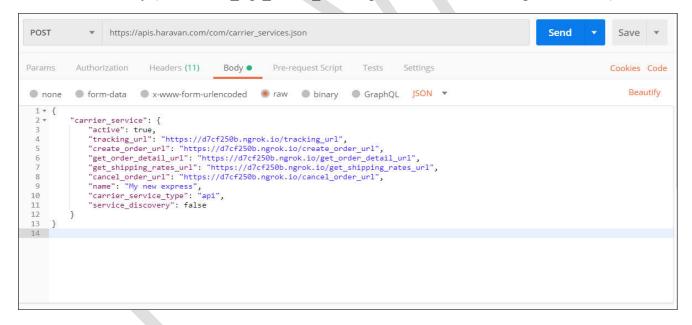
Method	URL	
POST	https://apis.haravan.com/com/carrier_services.json	

+ Header:



STT	Key	value
1	Authorization	Bearer + access_token

+ Body (read file 16_Api_carrier_service.pdf to know the meaning of the fields)

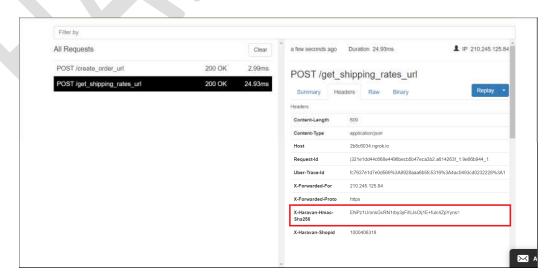


+ Response (read file 16_Api_carrier_service.pdf to know the meaning of the fields)

```
POST
                    https://apis.haravan.com/com/carrier_services.json
                                                                                                                                           Send
Pretty
                                                                                                                                                                  ■ Q
              "carrier_service": {
                   "active": true,
                  "tracking_url": "https://d7cf250b.ngrok.io/tracking_url",
                  "create_order_url": "https://d7cf250b.ngrok.io/create_order_url",
                  "get_order_detail_url": "https://d7cf250b.ngrok.io/get_order_detail_url",
"get_shipping_rates_url": "https://d7cf250b.ngrok.io/get_shipping_rates_url",
  6
  8
                  "cancel_order_url": "https://d7cf250b.ngrok.io/cancel_order_url",
                  "name": "My new express",
"carrier_service_type": "api",
 10
 11
                  "service_discovery": false,
                  "created_at": "2020-02-12T09:53:54.7363448Z",
"updated_at": "2020-02-12T09:53:54.7363608Z",
 12
 13
                  "id": 12008260,
 15
                   "options": {
                        "has_drop_off": false,
 16
                       "has_insurance": false,
                       "has_view_before": false,
                       "has_payment_method": false,
                       "has_dimension": false,
 21
                       "has_transport_type": false,
 22
                       "has_use_coupon_code": false
 23
 24
 25
```

2. Step 2 : Create an environment to listen request form Haravan:

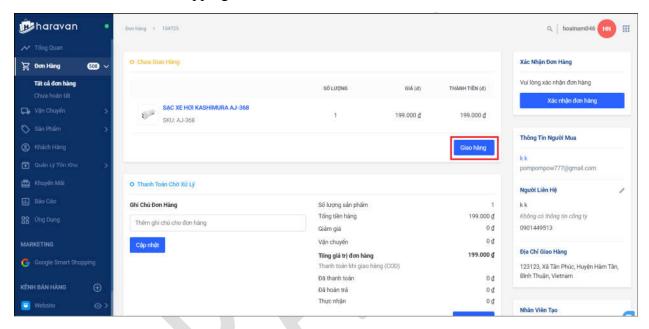
- In this demo, we build a demo app on the nodejs environment as a carrier to listen requests from Haravan.
- Source:
 - + Haravan_validate.js: authenticate data from Haravan with **X-Haravan-Hmac-SHA256** in request header (read 16_Api_carrier_service.pdf).



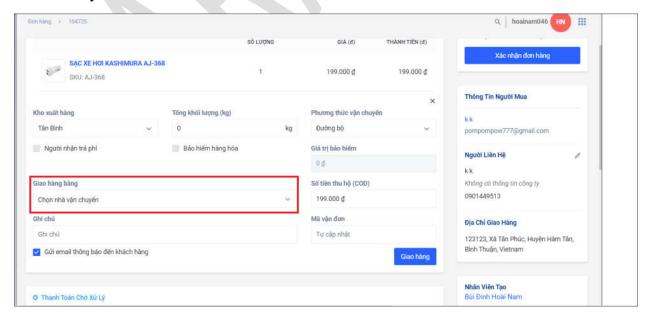
- + App.js
- References:
 - + File 16 Api carrier service.pdf
 - + Source code Carrier seriver

3. Step 3 : Create order and use shipping feature:

- Create order and use shipping feature in seller:

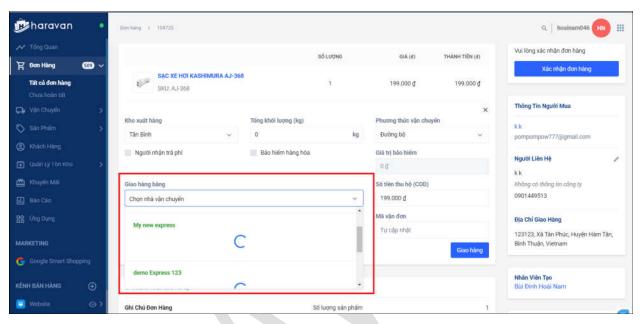


- Choose your carrier

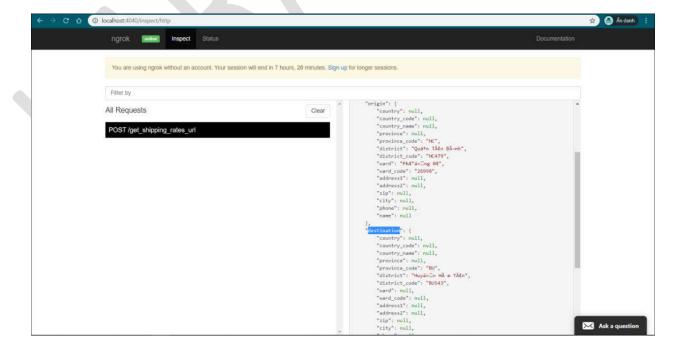


4. Step 4 : Carrier listen Haravan's request to get shipping rates.

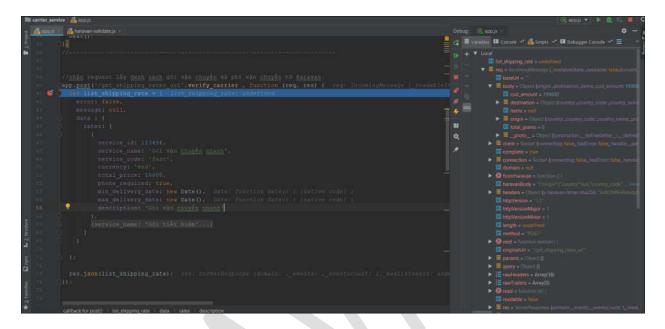
- Once you've selected a carrier, Haravan will display a list of carriers that have created a connection, and send a request to the carrier (app demo) to get shipping rates via **get_shipping_rates_url** (POST).



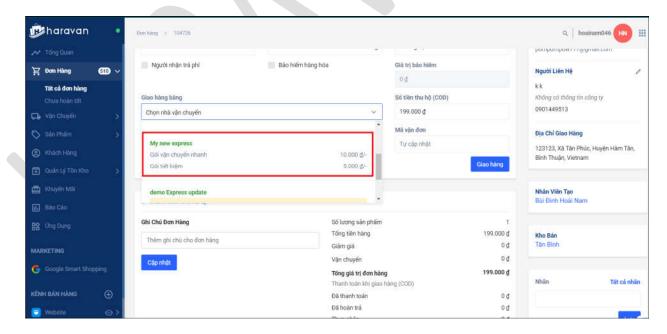
- If you use ngrok, use ngrok's web inspection interface to understand the HTTP request and response traffic over your tunnel: http://localhost:4040



- The carrier (app demo) receive order data form Haravan'request and response shipping rates.
- Read file 16_Api_carrier_service.pdf to know the meaning of the fields.

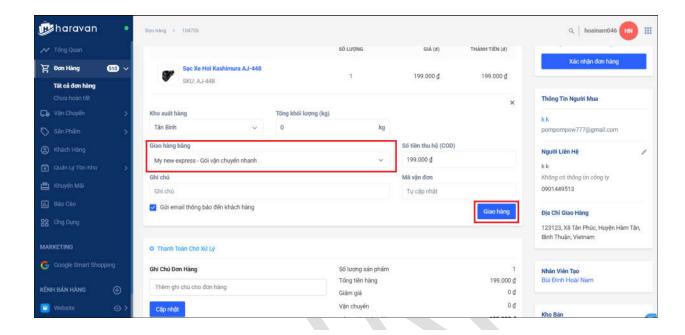


- Haravan receive shipping rates data and show it on seller.

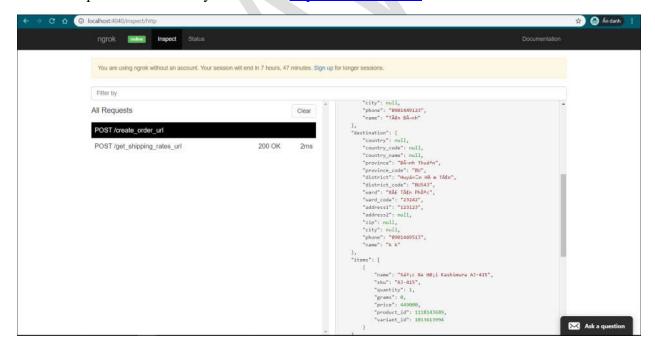


5. Step 5: Choose shipping rate and create fulfillment:

- Choose shipping rate and press shipping button.



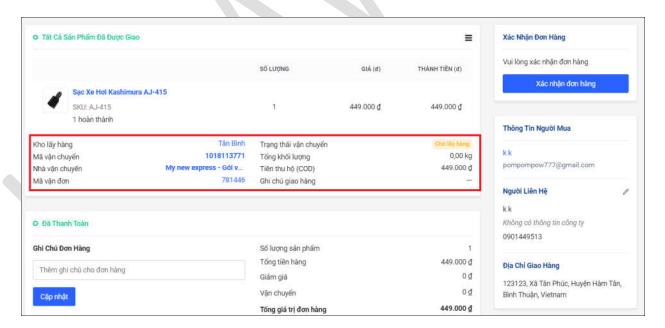
- Haravan send a request to the carrier (app demo) via **create_order_url** (POST).
- If you use ngrok, use ngrok's web inspection interface to understand the HTTP request and response traffic over your tunnel: http://localhost:4040



- The carrier (app demo) receive order data and product data form Haravan's request and create order fulfillment on carrier side. After that, response data for Haravan (read file 16_Api_carrier_service.pdf to know the meaning of the fields).

```
| Compared to the control of the con
```

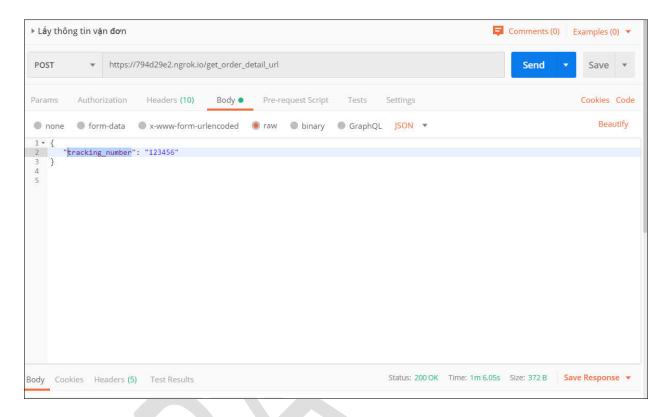
- Haravan receive response data and creates fulfillment data on Haravan side. Then displayed at the seller.



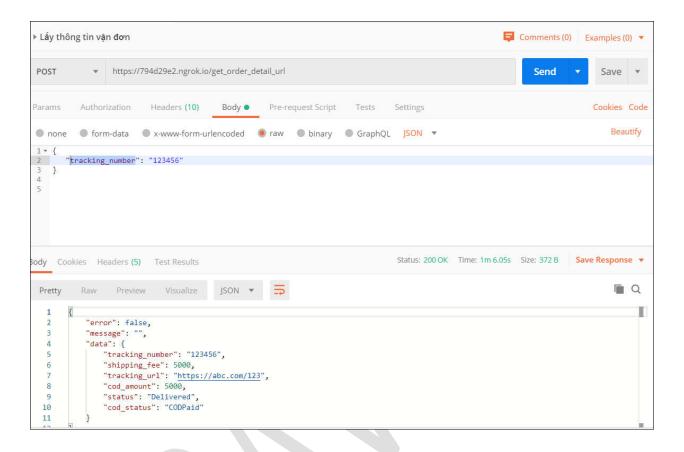
6. Step 6 : Get order fulfillment detail :

- Haravan's often send a request automaticly to get order fulfillment detail for update. So, we will use the postman for this demo.

- Haravan send a request to the carrier (app demo) with **tracking_number** to get order shipping detail via **get_shipping_rates_url** (POST).

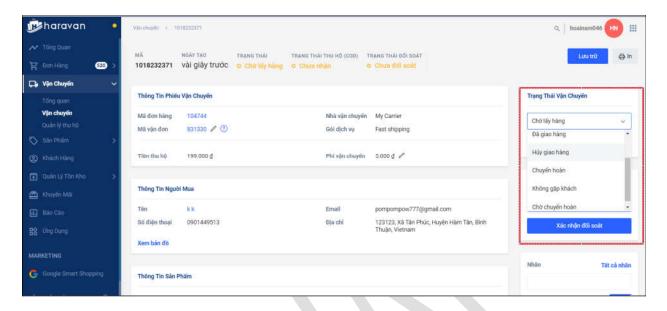


- **Note**: Because this step was demo by postman, it will temporarily bypass the authentication data from Haravan.
- Read file 16 Api carrier service.pdf to know the meaning of the fields.

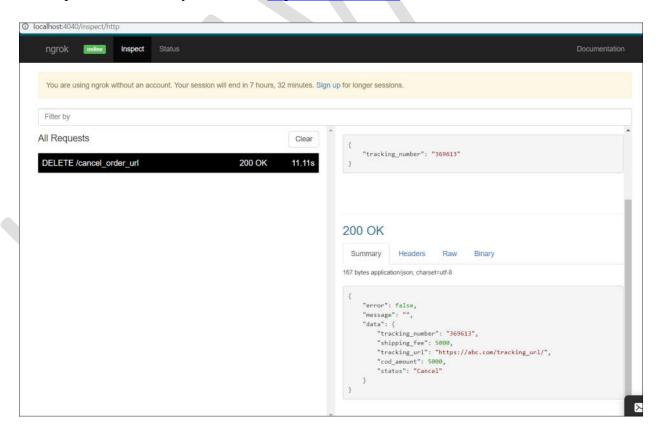


7. Step 7 : Cancel fulfillment:

- In case the seller updates the delivery status (fulfillment status) to cancel delivery, at the same time Haravan will send a request to the carrier (app demo) with **tracking_number** via **cancel_order_url**(DELETE).



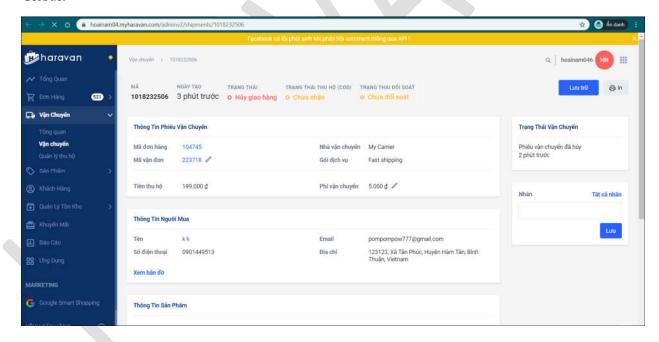
- If you use ngrok, use ngrok's web inspection interface to understand the HTTP request and response traffic over your tunnel: http://localhost:4040



- The carrier (app demo) receive order data form Haravan'request and respond shipping rates.

```
| Comparison withdray | A 1900 | Comparison | Comparison
```

- Result



- Note: After canceled your fulfillment, you can't update this fulfillment anymore.

8. Step 8: Update fulfillment status

- Carrier can actively update fulfillment status, by sending a request to Haravan's api.
- Note:
 - + Create new order if old order has been canceled.
 - + You need order id and fulfillment id before starting.
 - + Read file 16 Api carrier service.pdf to know the meaning of the fields.

- Error Suggestion:

- + Retry at least 3 times.
- + If it still doesn't work, follow the steps below:
 - 1- Log error, demo in postman.
 - 2- Notify Haravan.
 - 3- Share postman and specific data (shop, ord_id, fulfillment_id, access token...) to check for Haravan.

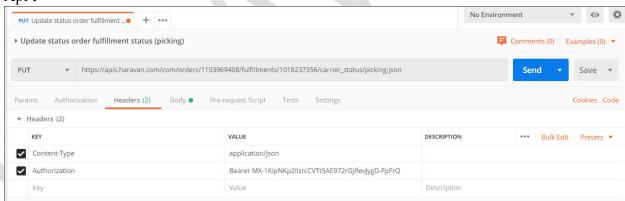
Header for all demo:



STT	Key	value
1	Authorization	Bearer + access_token

* Update status order fulfillment status (picking):

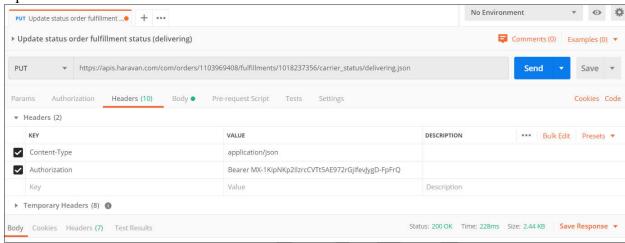
- Api:



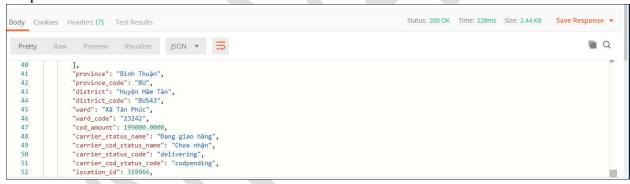


* Update status order fulfillment status (delivering):

- Api:

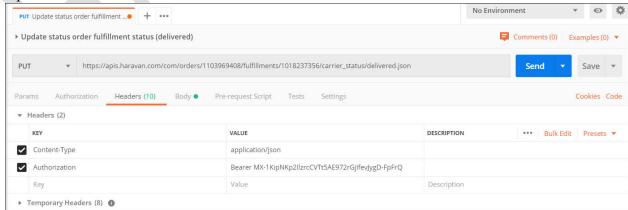


- Response:



* Update status order fulfillment status (delivered):

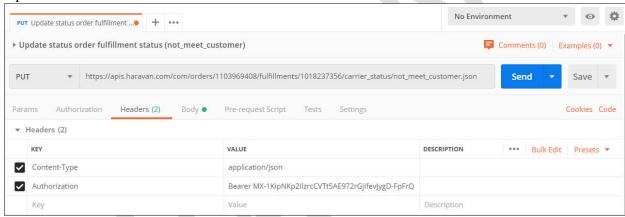
- Api :



```
Status: 200 OK Time: 346ms Size: 2.48 KB Save Response ▼
Body Cookies Headers (7) Test Results
     Pretty
                                       Preview Visualize JSON ▼ =
                                                                                                                                                                                                                                                                                                                                              ■ Q
                                    ],
"province": "Bình Thuận",
                                   "province": "Bình Thuận",
"province_code": "BU",
"district": "Huyện Hàm Tân",
"district_code": "BU543",
"ward": "Xã Tân Phúc",
"ward_code": "23242",
"cod_amount": 199000.0800,
"carrier_status_name": "Dã giao hàng",
"carrier_cod_status_name": "Chưa nhận",
"carrier_cod_status_code": "codpaid",
"carrier_cod_status_code": "codpaid",
"location id": 319966.
      41
      42
43
      45
      46
      47
      48
      49
      50
                                    "location_id": 319966,
```

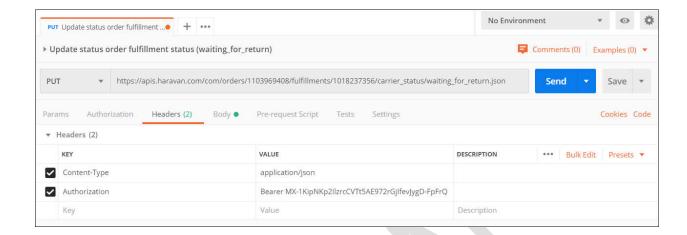
* Update status order fulfillment status (not meet customer):

- Api :

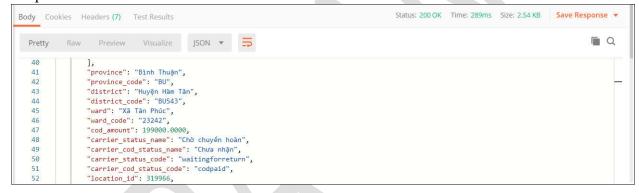


```
► Temporary Headers (8) ①
                                                                                                                 Status: 200 OK Time: 336ms Size: 2.52 KB Save Response ▼
Body Cookies Headers (7) Test Results
                                                                                                                                                                             ■ Q
                        Preview
   Pretty
   41
                     "province": "Bình Thuận",
                    "province_code": "BU",
"district": "Huyện Hàm Tân",
   42
   43
                    "district_code": "BU543",
"ward": "Xã Tân Phúc",
   44
   45
                     "ward_code": "23242",
   47
                    "cod_amount": 199000.0000,
   48
                     "carrier_status_name": "Không gặp khách",
   49
                    "carrier_cod_status_name": "Chưa nhận",
"carrier_status_code": "notmeetcustomer",
    51
                     "carrier_cod_status_code": "codpaid",
                    "location_id": 319966,
```

- * Update status order fulfillment status (waiting for return):
- Api :

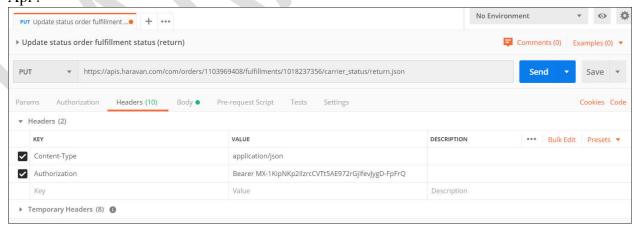


- Response:



* Update status order fulfillment status (return):

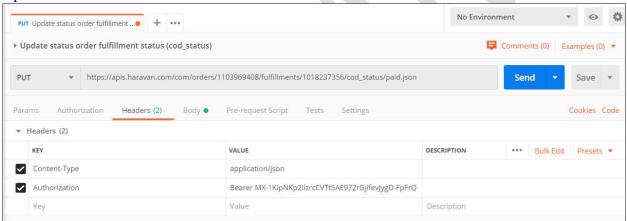
- Api:



```
Status: 200 OK Time: 194ms Size: 2.49 KB Save Response ▼
Body Cookies Headers (7) Test Results
                                                                                                                                   ■ Q
  Pretty
                    Preview
                                           JSON ▼
  40
                 "province": "Bình Thuận",
  41
                 "province_code": "BU",
  42
                 "district": "Huyện Hàm Tân",
  43
  44
                 "district_code": "BU543",
  45
                 "ward": "Xã Tân Phúc",
  46
                 "ward_code": "23242",
  47
                 "cod_amount": 199000.0000,
  48
                 "carrier_status_name": "Chuyển hoàn",
  49
                 "carrier_cod_status_name": "Chưa nhận",
   50
                 "carrier_status_code": "return",
   51
                 "carrier_cod_status_code": "codpaid",
                 "location_id": 319966,
                 "note": null,
```

* Update status order fulfillment status (paid):

- Api:

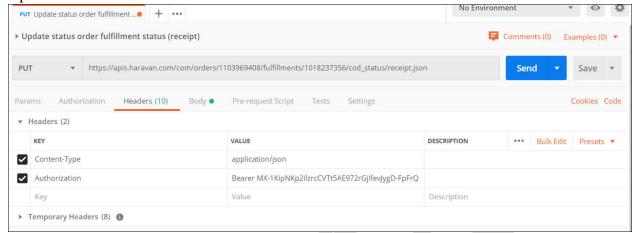


Response :

```
Status: 200 OK Time: 94ms Size: 2.53 KB Save Response ▼
Body Cookies Headers (7) Test Results
                                                JSON ▼
                                                                                                                                                                   @ Q
  Pretty
                            "sku": "AJ-368",
   30
                            "title": "SẠC XẾ HƠI KASHIMURA AJ-368",
   31
                             "variant_id": 1013613992,
   32
                            "variant_title": "Default Title",
   33
                            "vendor": "Kashimura",
"name": "SAC XE HOI KASHIMURA AJ-368",
   35
   36
                            "variant_inventory_management": null,
                            "properties": null,
   37
                             "product_exists": true
   38
   39
   40
                   "province": "Bình Thuận",
   41
                   "province_code": "BU",
"district": "Huyện Hàm Tân",
   42
   43
   44
                   "district_code": "BU543",
   45
                   "ward": "Xã Tân Phúc",
                   "ward code": "23242".
   46
                   "cod_amount": 199000.0000,
   47
   48
                   "carrier_status_name": "Chờ chuyển hoàn",
                   "carrier_cod_status_name": "Chưa nhận",
"carrier_status_code": "waitingforreturn",
   49
   50
                   "carrier_cod_status_code": "codpaid",
```

* Update status order fulfillment status (receipt):

- Api:

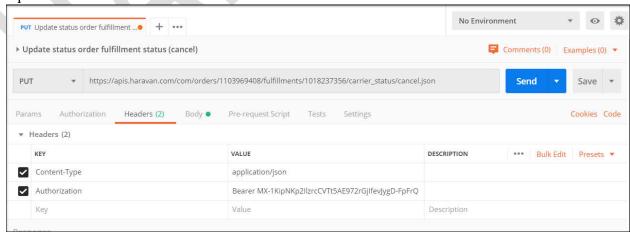


- Response:



* Update status order fulfillment status (cancel):

Api :



```
| Pretty | Raw | Preview | Visualize | JSON | Time: 2.40s | Size: 2.42 kB | Save Response | Pretty | Raw | Preview | Visualize | JSON | Time: 2.40s | Size: 2.42 kB | Save Response | Pretty | Raw | Preview | Visualize | JSON | Time: 2.40s | Size: 2.42 kB | Save Response | Pretty | Raw | Preview | Visualize | JSON | Time: 2.40s | Size: 2.42 kB | Save Response | Pretty | Raw | Preview | Visualize | JSON | Preview |
```

- **Note**: When using API update status of fulfillment is cancel. Haravan will send request to cancel the order fulfillment on carrier side similar to step 7.