API Portal - Developer Guide

Draft : 20210421 (ver 1.1)

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1. WELCOME!

Welcome to Infrasys Cloud Partner API Portal!

You can find that this is an easy way to extend the functionality of your system via the partner API Portal.

From there, we provide the RESTful APIs for the developer integration.

Please follow the steps and start your API development.

- Apply Developer Account for Infrasys Cloud API Portal**
- Create Developer Application
- Subscribe APIs for the Application (to get sandbox access key)
- Learn and test APIs at API Console (with sandbox)
- API Integration to your own application
- Certification (to get production access key)**

*** Application Form and approval process by Infrasys API Portal Admin Team is required*

After Verification in Certification, you will receive the keys to access Infrasys Cloud production environment and your application will be put into our feature market place for Infrasys Cloud customer subscription.

At that moment, your application can work with us to provide the world class service to our customers.

Let's start now!

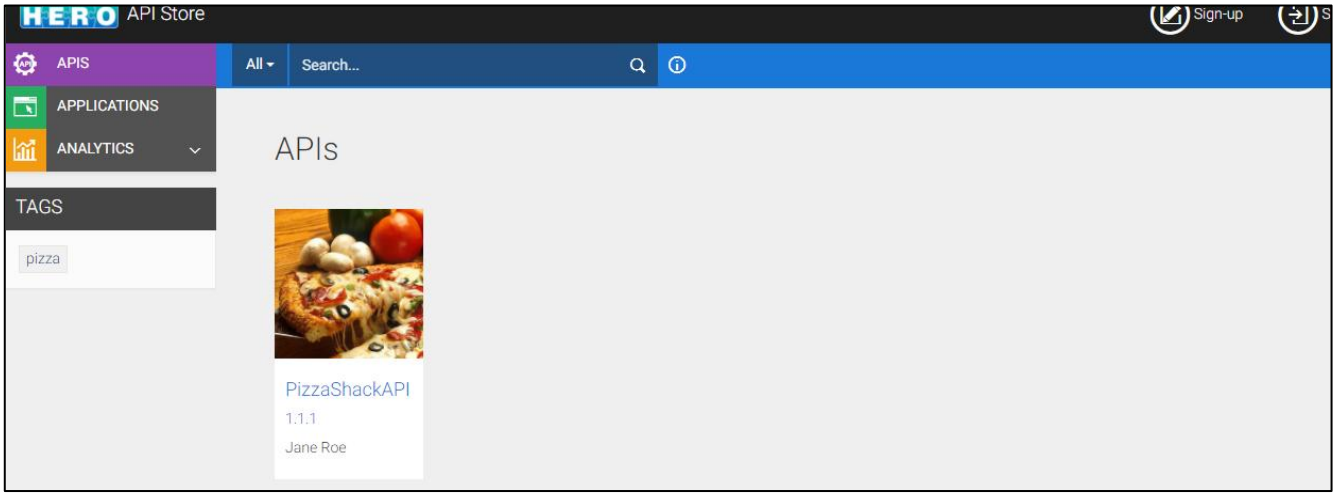
2. APPLY DEVELOPER ACCOUNT

Infrasys Cloud API Portal is for the partner development only. Therefore, the developer should receive the invitation before submitting your account application.
For the API list that should be subscribed by your application, you must inform Infrasys Business Unit prior to raising your application-API subscription. Please make sure you have submitted a registration form provided by Infrasys Business Unit.

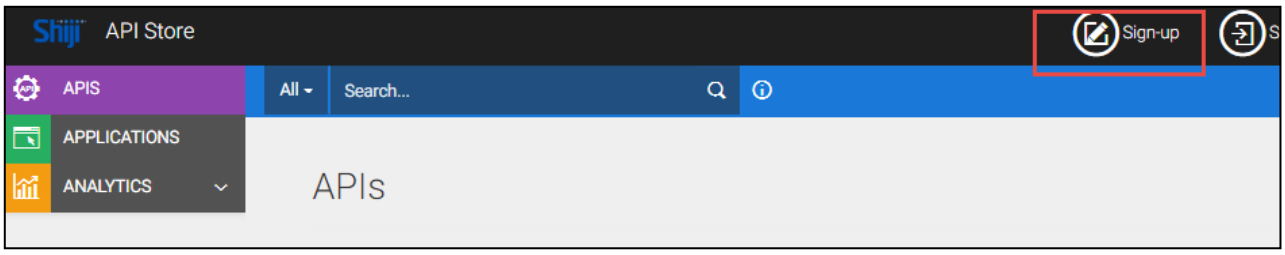
Step 1: Go to Infrasys Cloud Developer Portal

CN region: https://api.hero-cloud.cn:9443/store

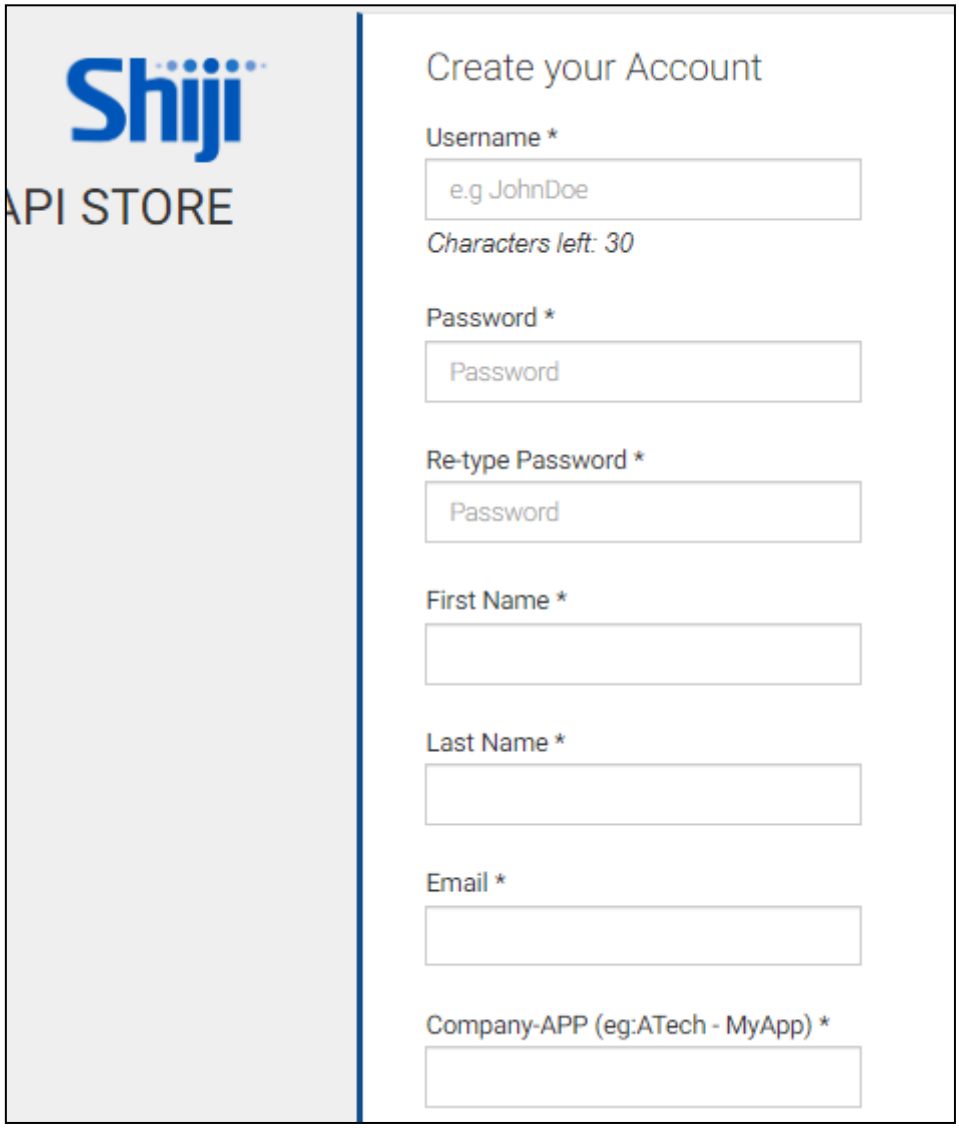
Global region: https://api.hero-cloud.com:9443/store



Step 2: Click“Sign-up” button at the top-right corner



Step 3: Input Developer Information.



Step 4: Please enter your company and application name in “Company-APP” field. This will be the application name shown in market place for user selection.

e.g.

Company name : Future Technology

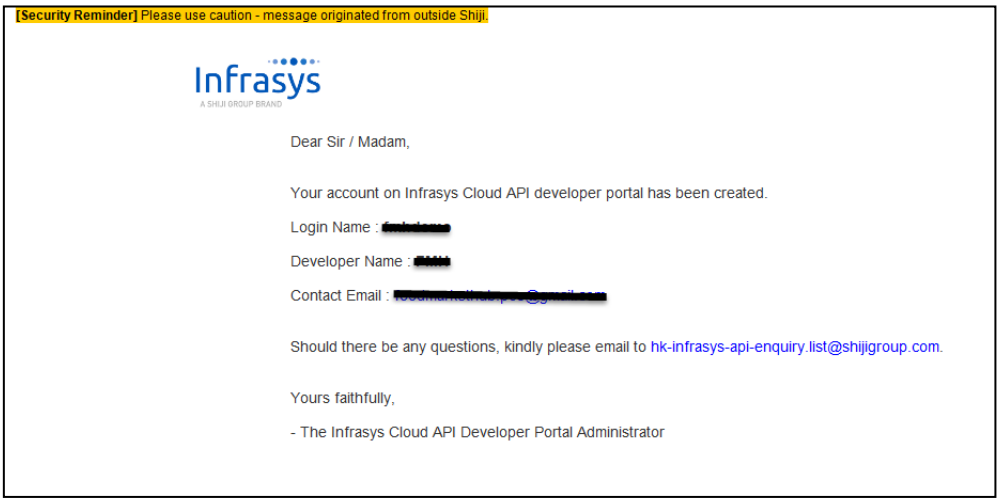
Application : Butterfly App

Company-APP: “Future Technology – Butterfly App”

If Company-APP Field is hidden, please press “Show Additional Details” to show the field.

Step 5: Press “Sign Up” button to submit the application. The below message will be shown for success signup.

Please check your mail box. You should receive an Account New Registration email from our API Portal. **Please note the application process is not completed yet!**


[Security Reminder] Please use caution - message originated from outside Shiji.

Infrasys
A SHIJI GROUP BRAND

Dear Sir / Madam,

Your account on Infrasys Cloud API developer portal has been created.

Login Name : [redacted]

Developer Name : [redacted]

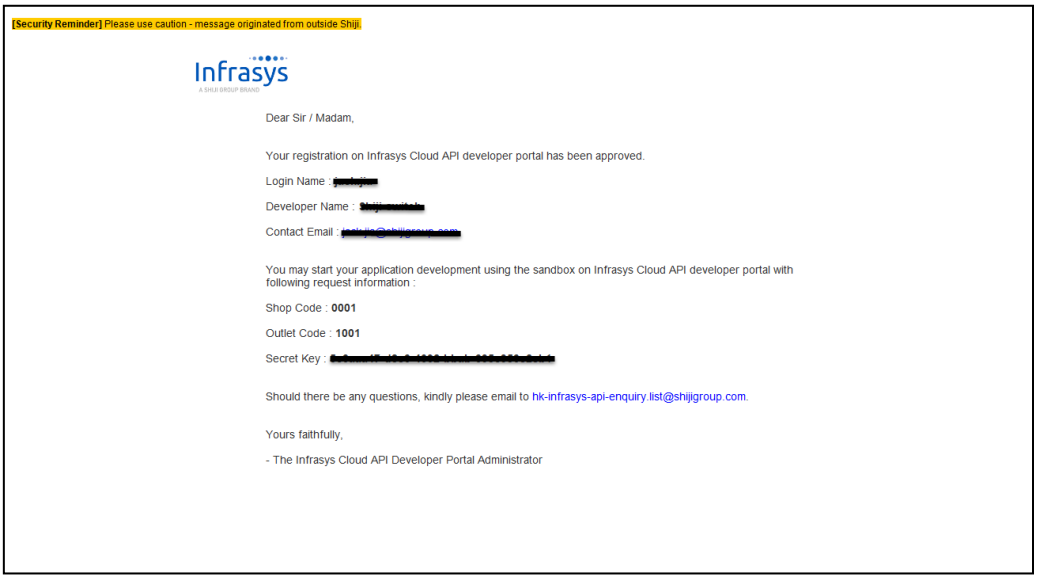
Contact Email : [redacted]

Should there be any questions, kindly please email to hk-infrasys-api-enquiry.list@shijigroup.com.

Yours faithfully,

- The Infrasys Cloud API Developer Portal Administrator

After the account process by API operation team, a confirmation email will be issued to the Developer email. The secret key of sandbox is attached.


[Security Reminder] Please use caution - message originated from outside Shiji.

Infrasys
A SHIJI GROUP BRAND

Dear Sir / Madam,

Your registration on Infrasys Cloud API developer portal has been approved.

Login Name : [redacted]

Developer Name : [redacted]

Contact Email : [redacted]

You may start your application development using the sandbox on Infrasys Cloud API developer portal with following request information :

Shop Code : **0001**

Outlet Code : **1001**

Secret Key : [redacted]

Should there be any questions, kindly please email to hk-infrasys-api-enquiry.list@shijigroup.com.

Yours faithfully,

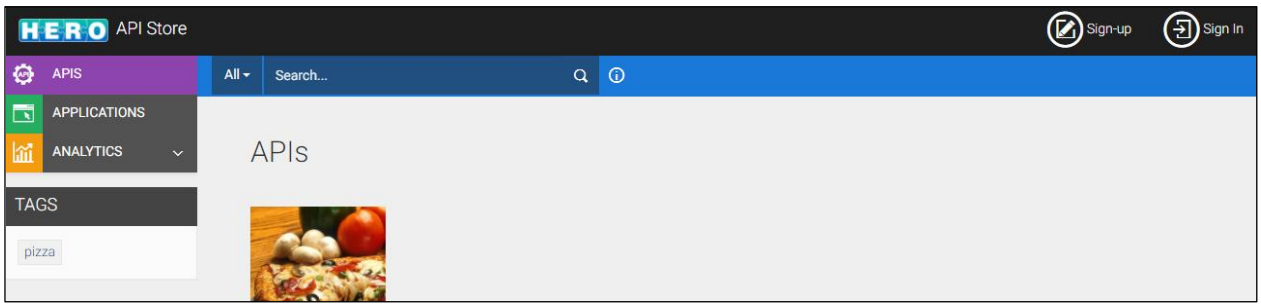
- The Infrasys Cloud API Developer Portal Administrator

You can “Sign In” to the API Portal now!

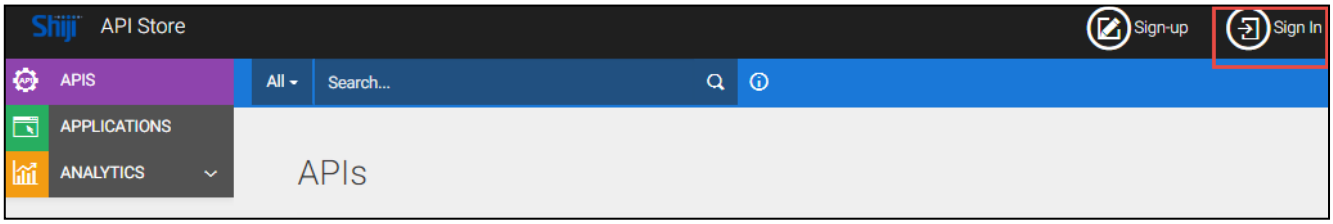
Step 1: Open the Infrasys Cloud Developer Portal

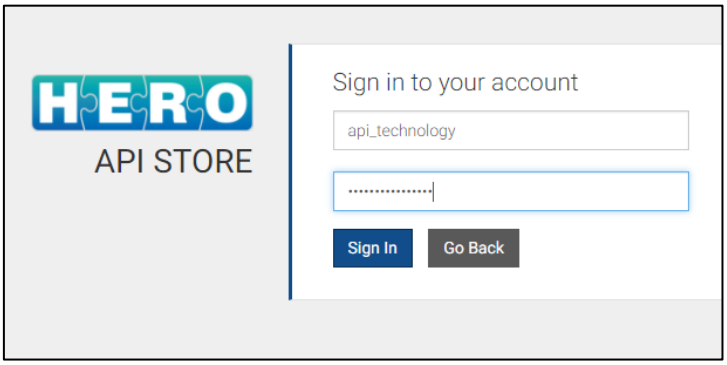
CN region: https://api.hero-cloud.cn:9443/store

Global region: https://api.hero-cloud.com:9443/store

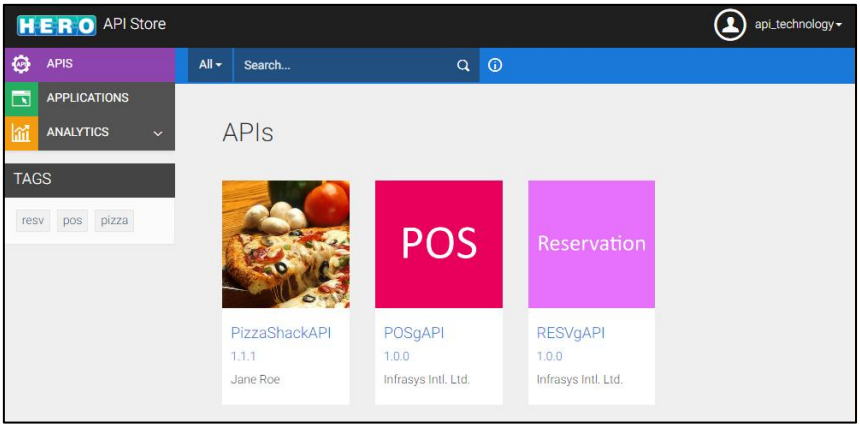


Step 2: Press “Sign In” button at the top-right corner and Type in your Username and Password

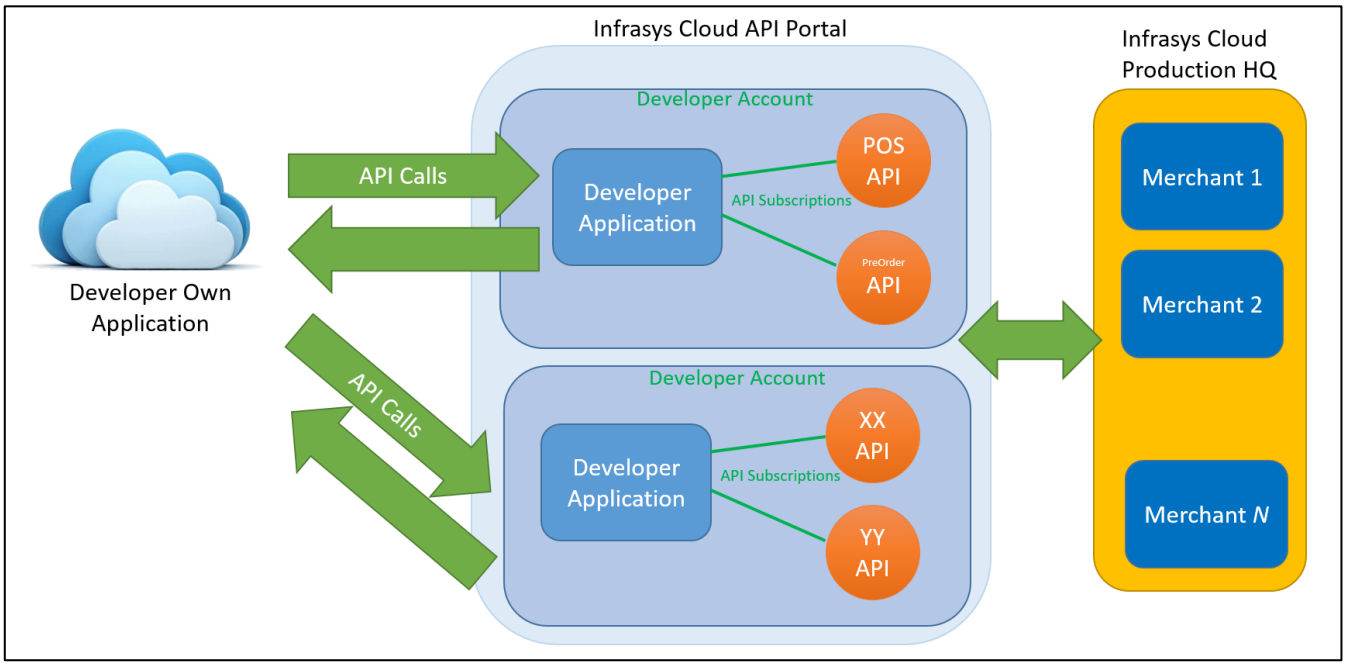




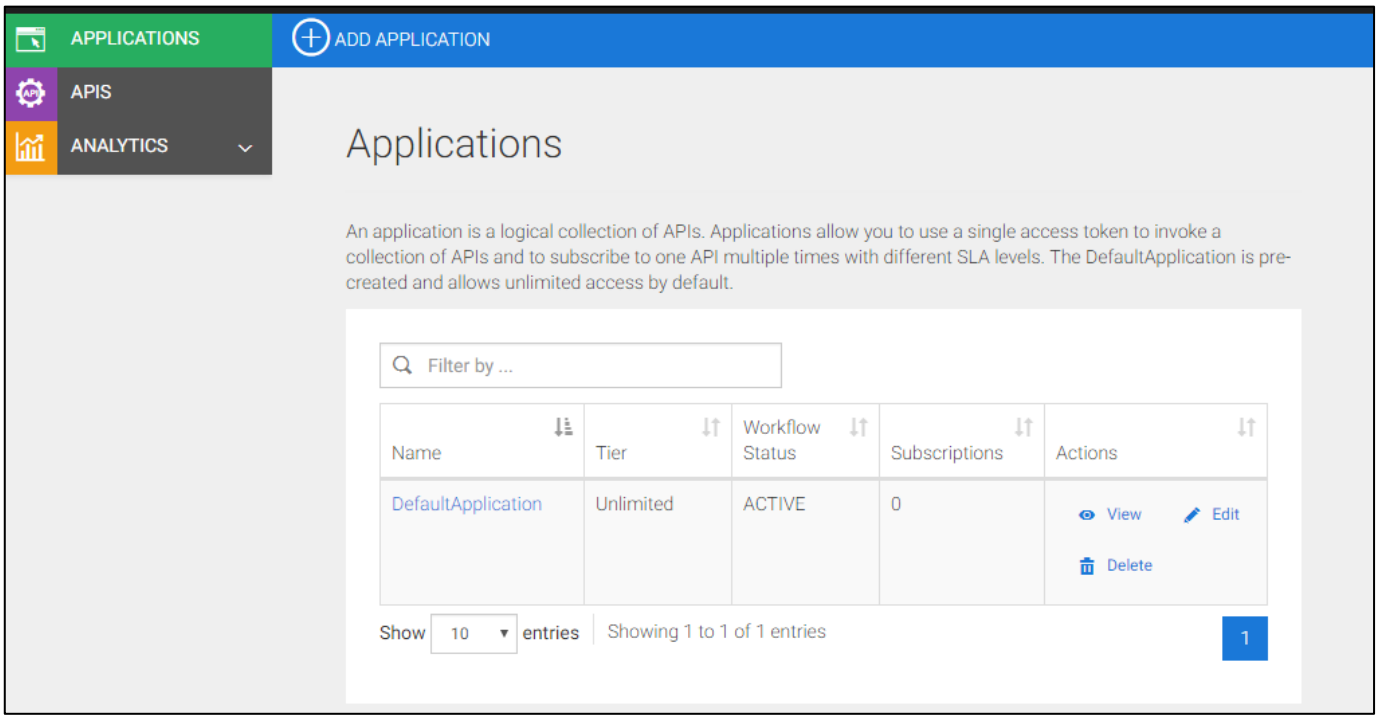
You will get your API working space.



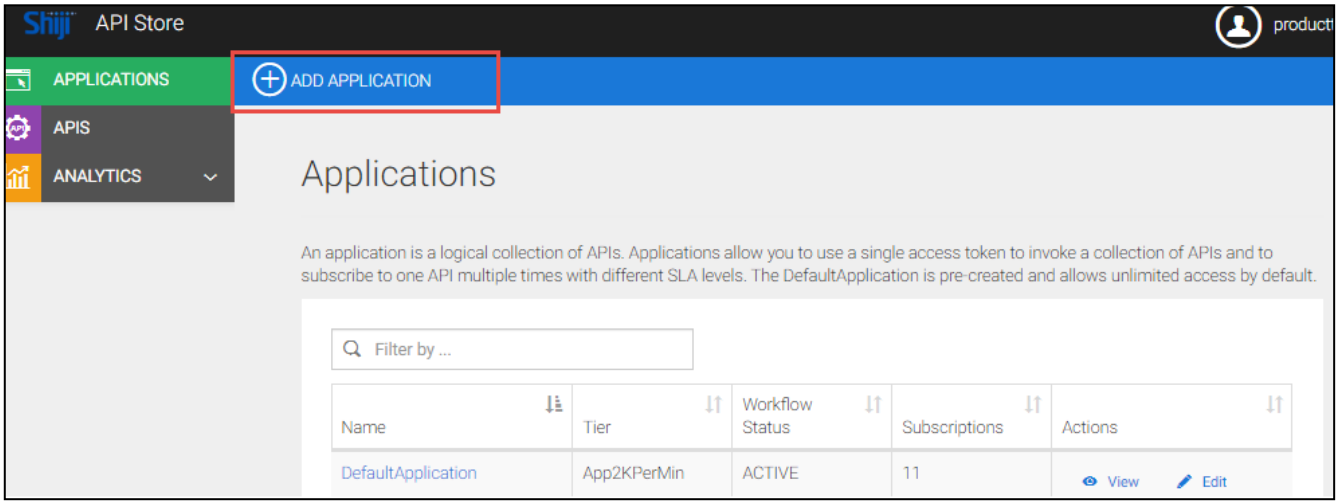
3. CREATE DEVELOPER APPLICATION



Step 1: Login to the Developer Portal. Press “APPLICATIONS” button at the navigation bar.

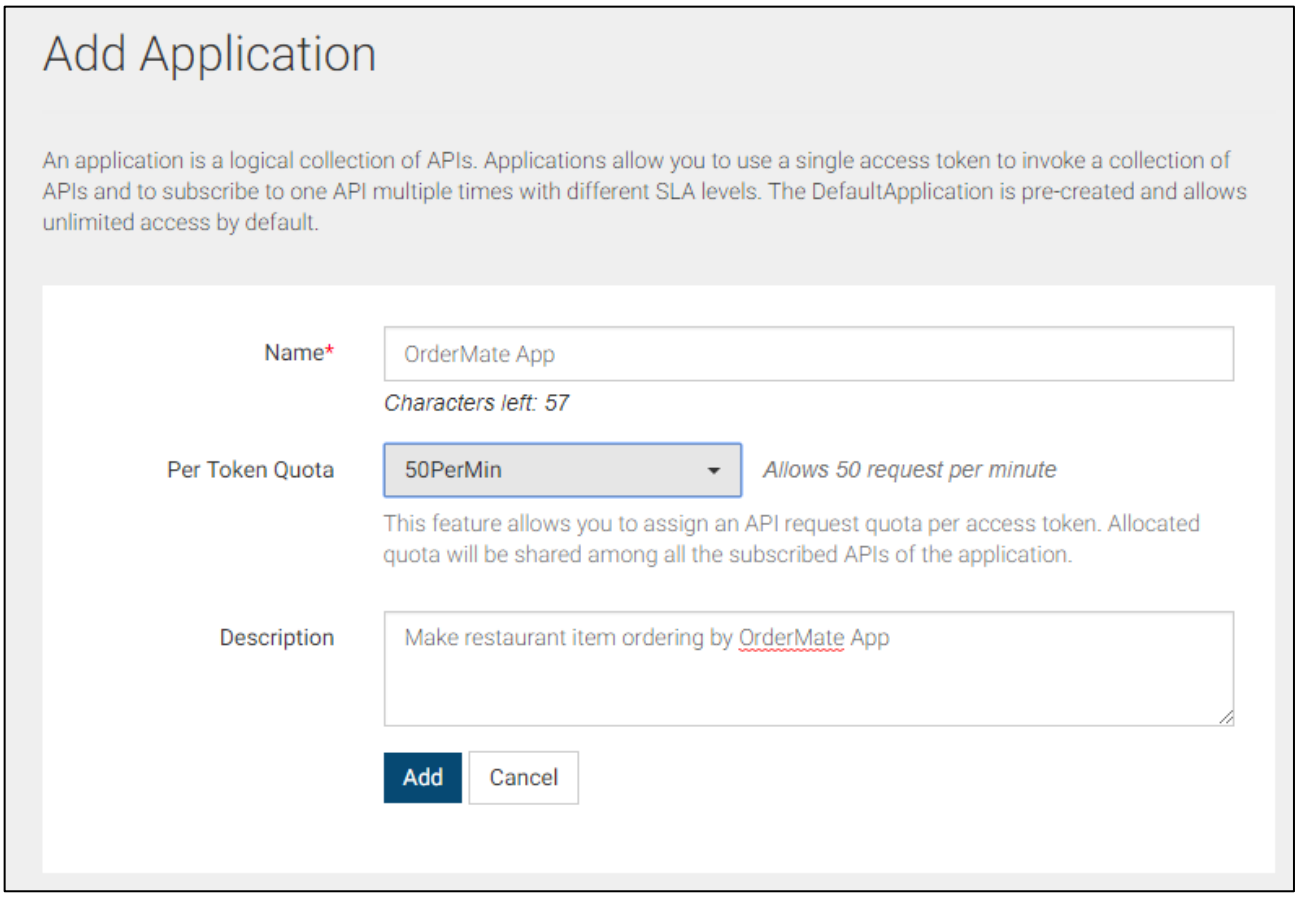


Step 2: Press “ADD APPLICATION” button.

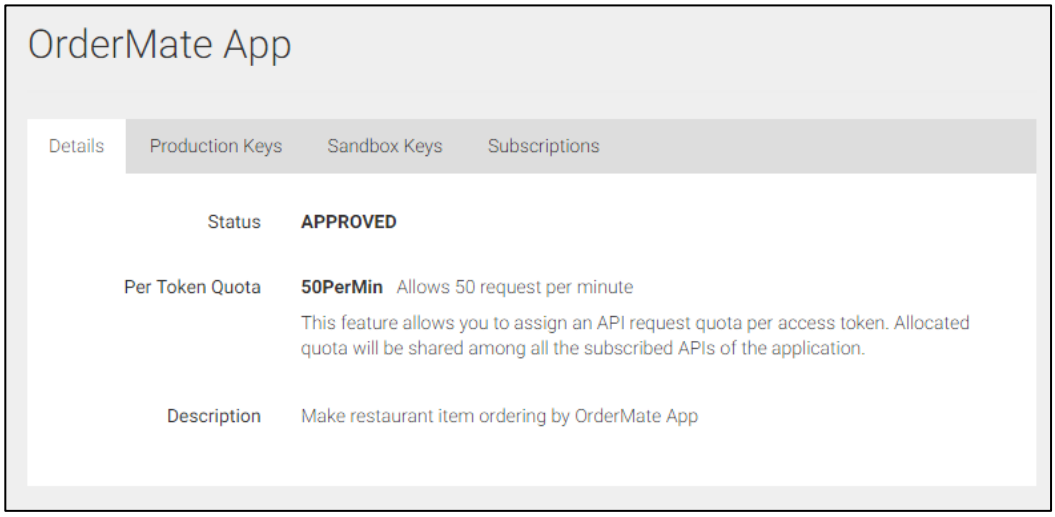


Step 3: Fill in the details of the application and press “Add” button to complete the action

- Name : Application Name (To be shown for customer subscription)
  **Please note the application name should not duplicate with “Company-APP” in sign-up
- Per Token Quota : Select the plan for the API traffic control
- Description : Information for your application

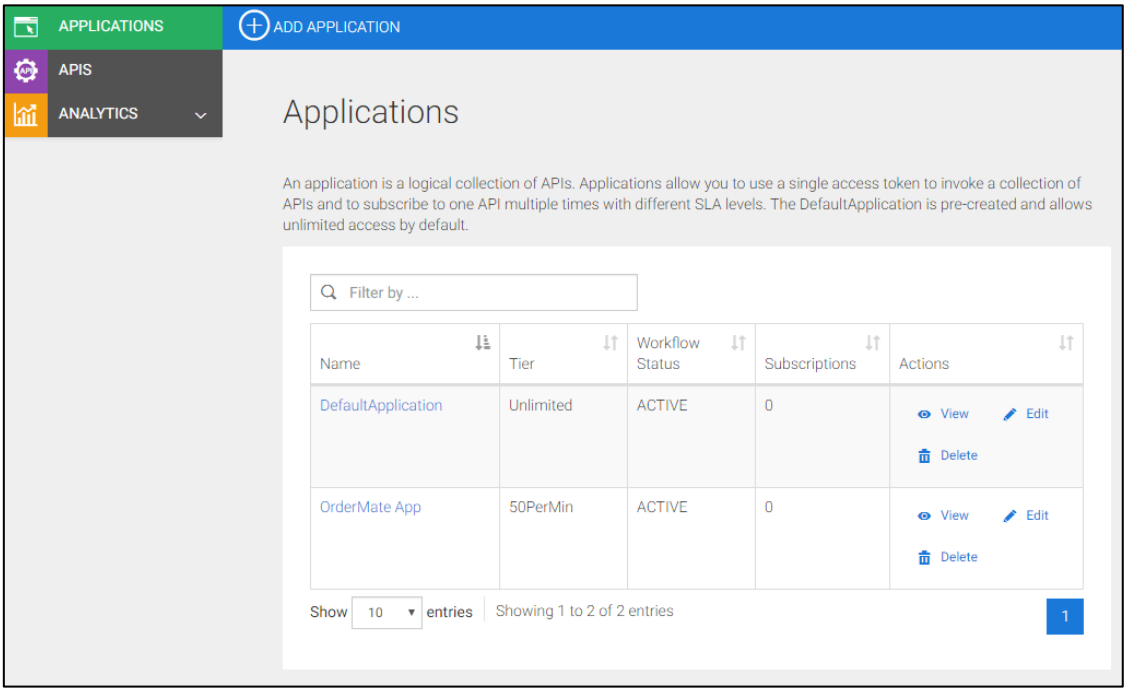


The application added and details will be shown under the Application List.

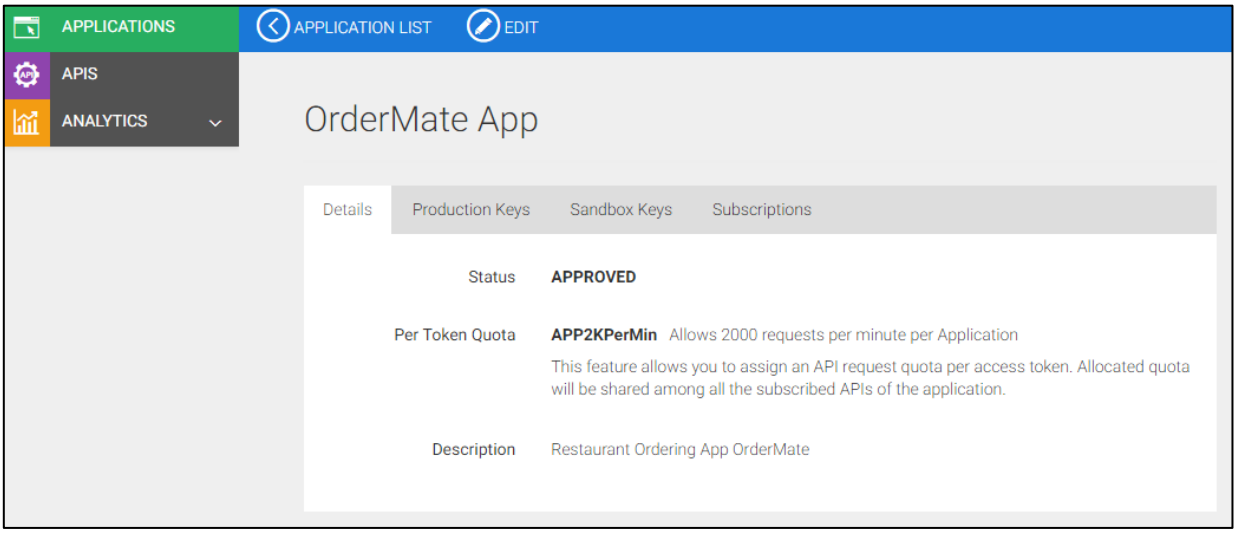


4. SUBSCRIBE API FOR THE APPLICATION

Step 1: Login to the Developer Portal. Press “APPLICATIONS” button at the navigation bar.

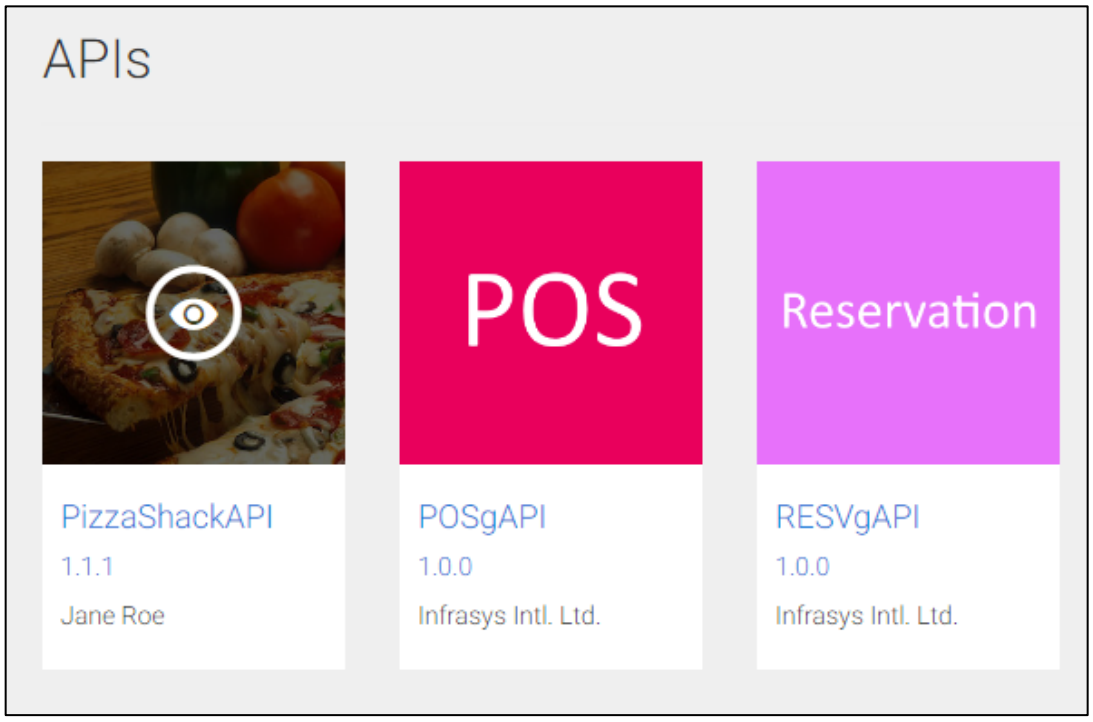


Step 2: Check the new application was created and included in the “Application List”

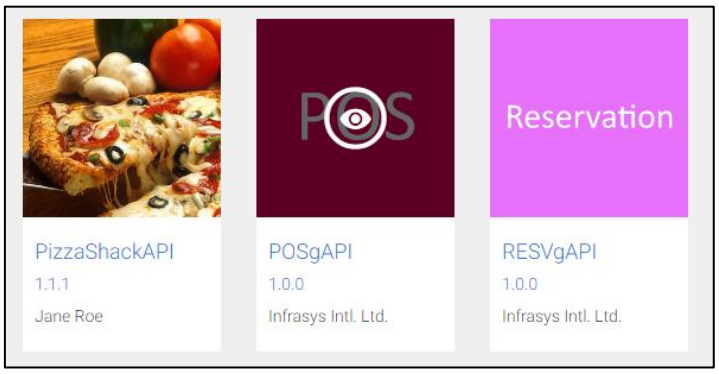


Step 3: Press “APIS” button at the navigation bar.

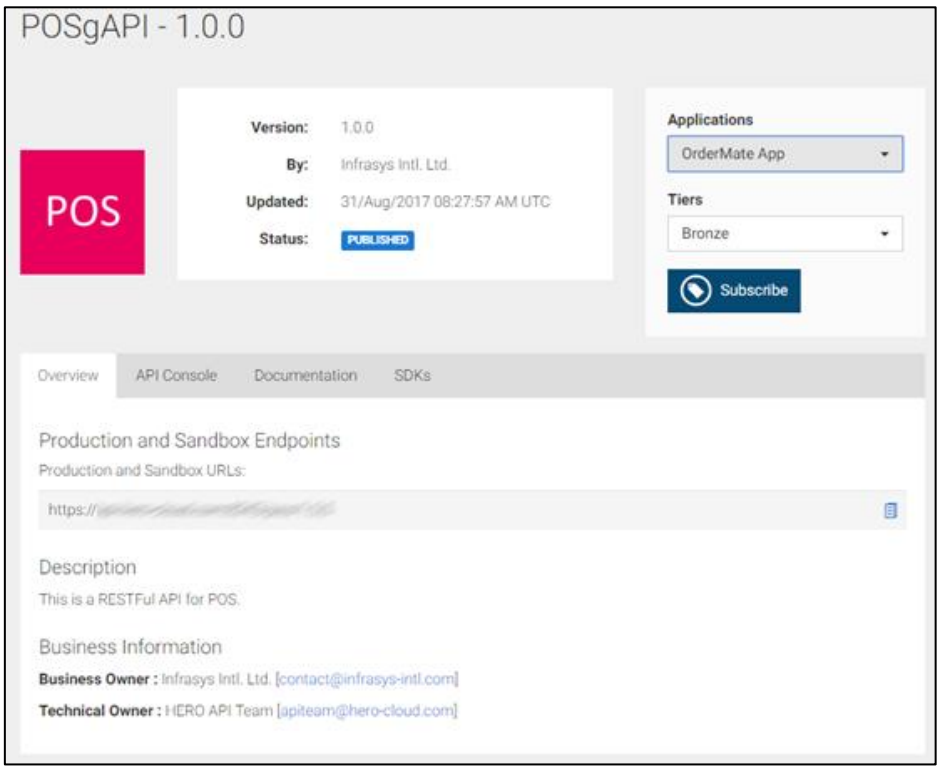
A list of arranged APIs for your account is shown on screen. If your desired API is not available, please contact our business unit to request more APIs.

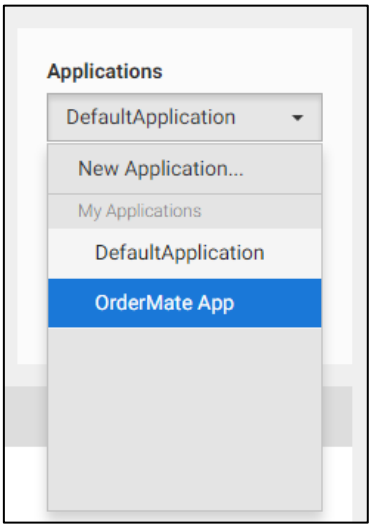


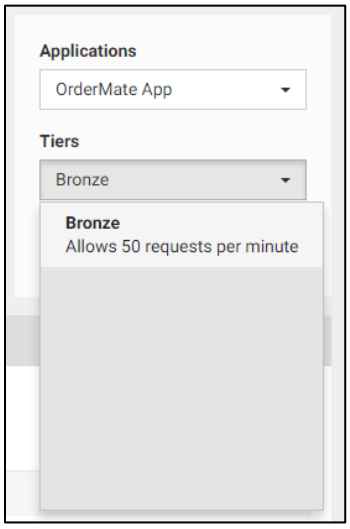
Step 4: Click on the target API to view the details



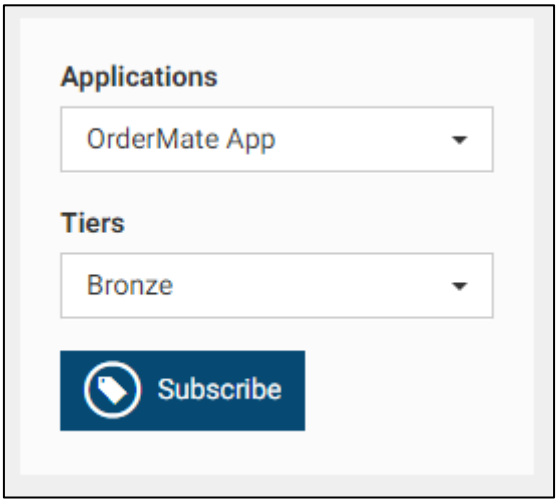
Step 5: Please select the Applications to subscribe current API and select the Tier.



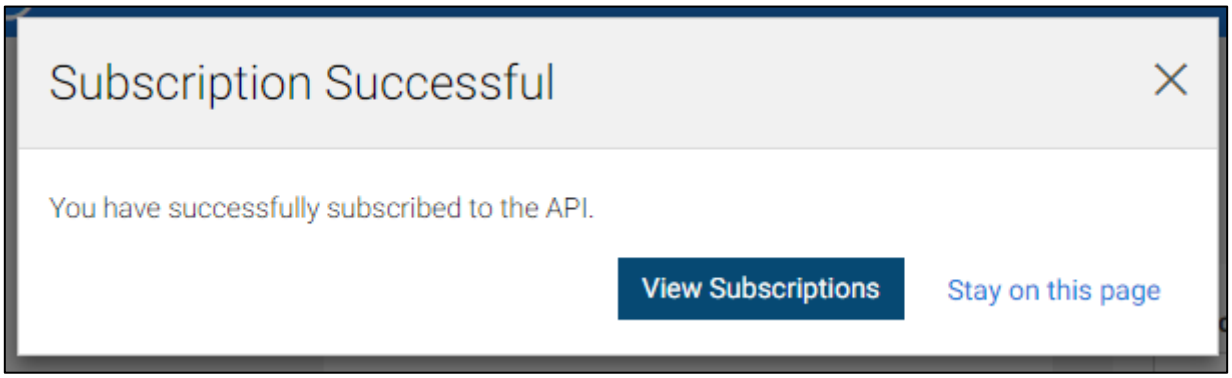




Step 6: Then Press “Subscribe” button to confirm the Application-API subscription.

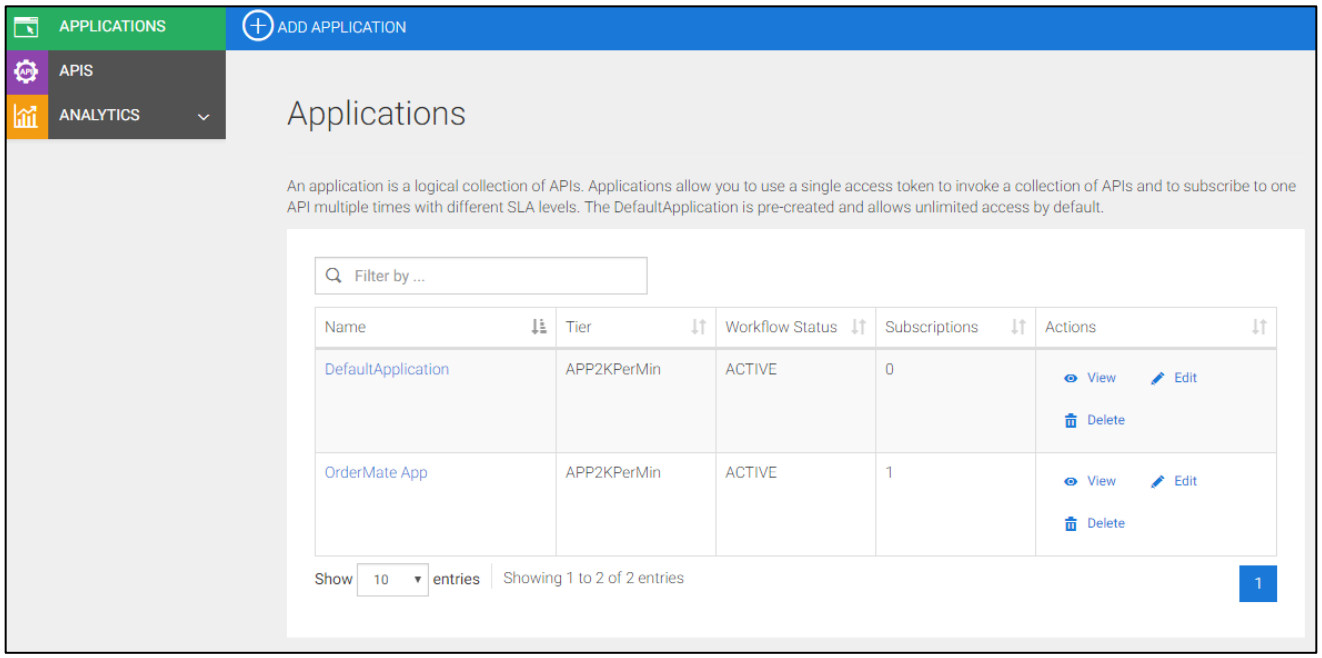


The subscription application is submitted and approved instantly.

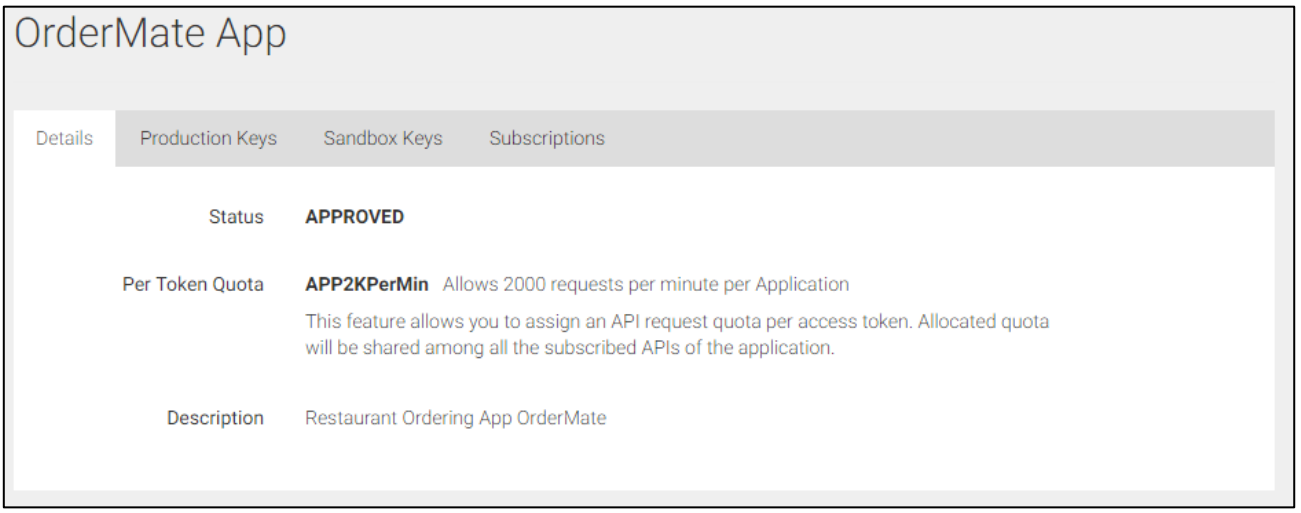


5. GENERATE ACCESS TOKEN FOR THE APPLICATION

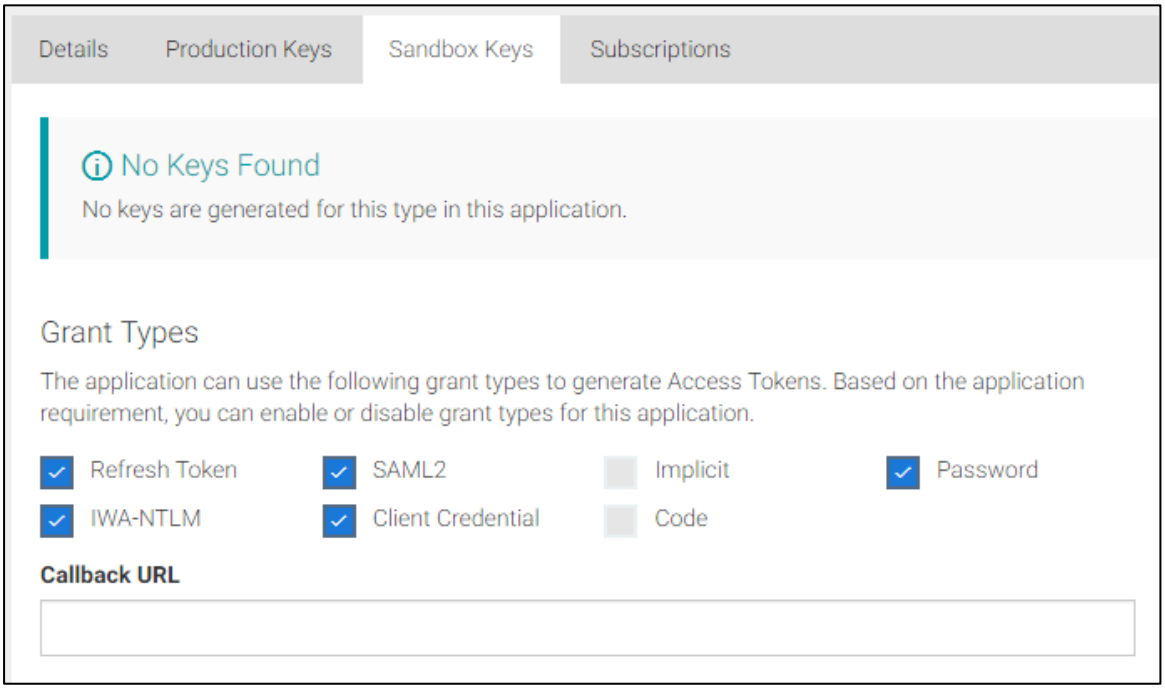
Step 1: Login to the Developer Portal. Press “APPLICATIONS” button at the navigation bar.



Step 2: Click on particular application

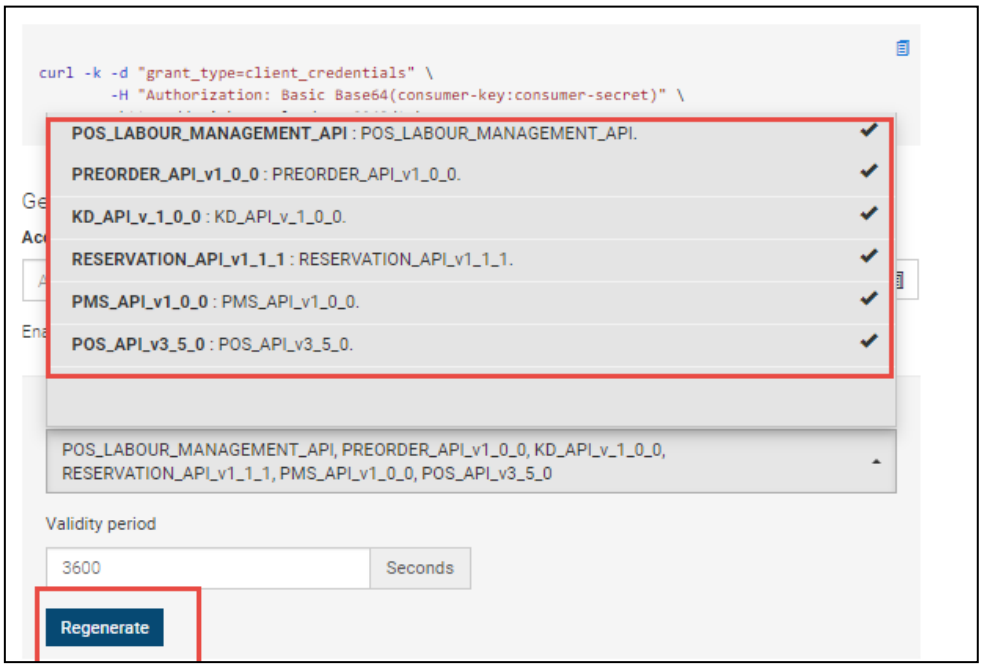


Step 3: Generate both “Production Keys” and “Sandbox Keys”. Press “Generate keys” to generate the keys.

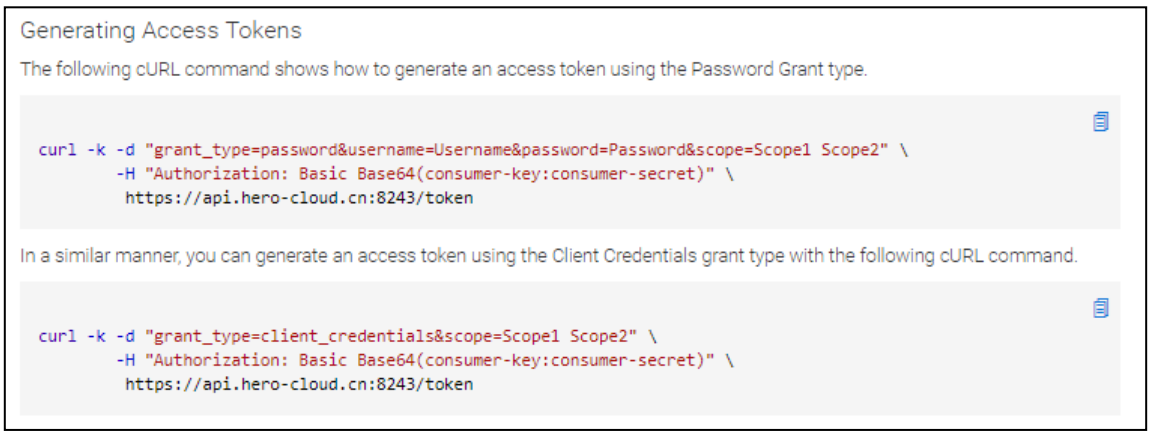


CN region

Access token is by module. Please select the API module and click generate.

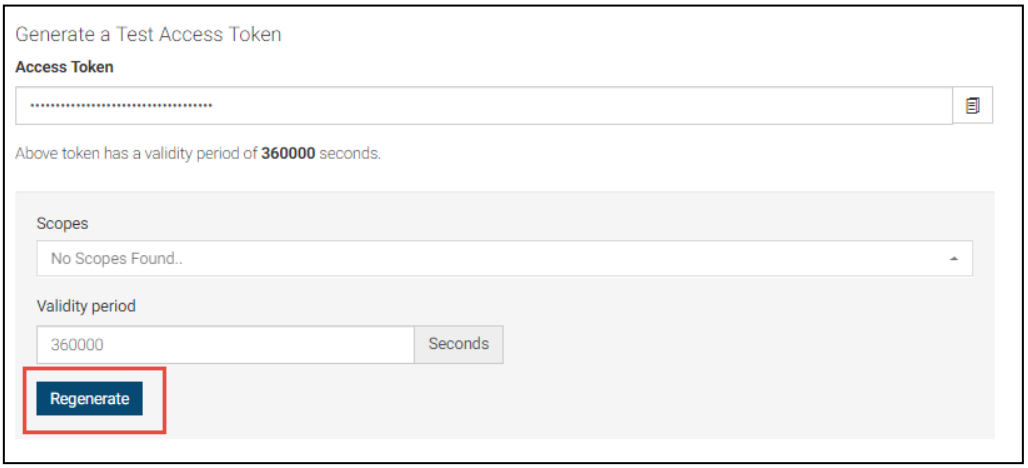


For generate access token automatically, please use the below cURL command.

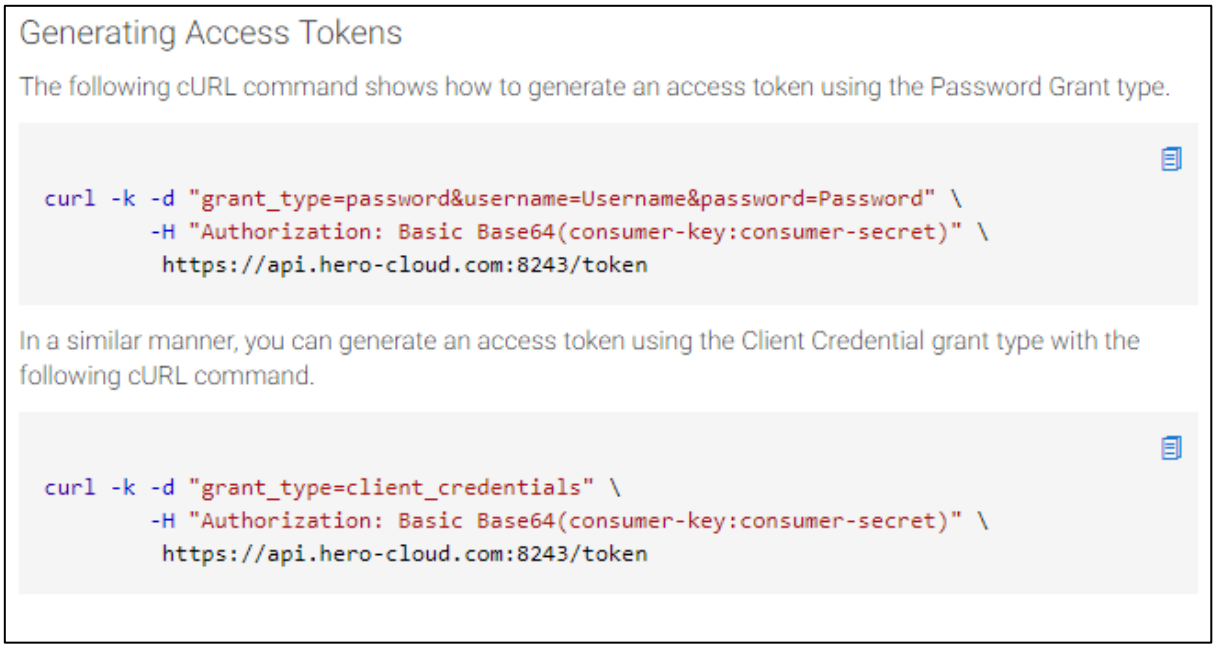


Global region

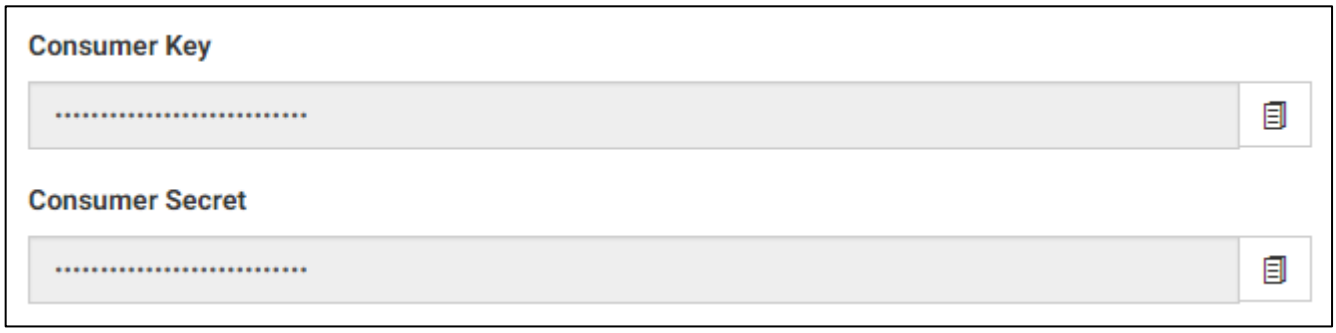
Access token is by application. Click Generate to get the access token.



For generate access token automatically, please use the below cURL command.

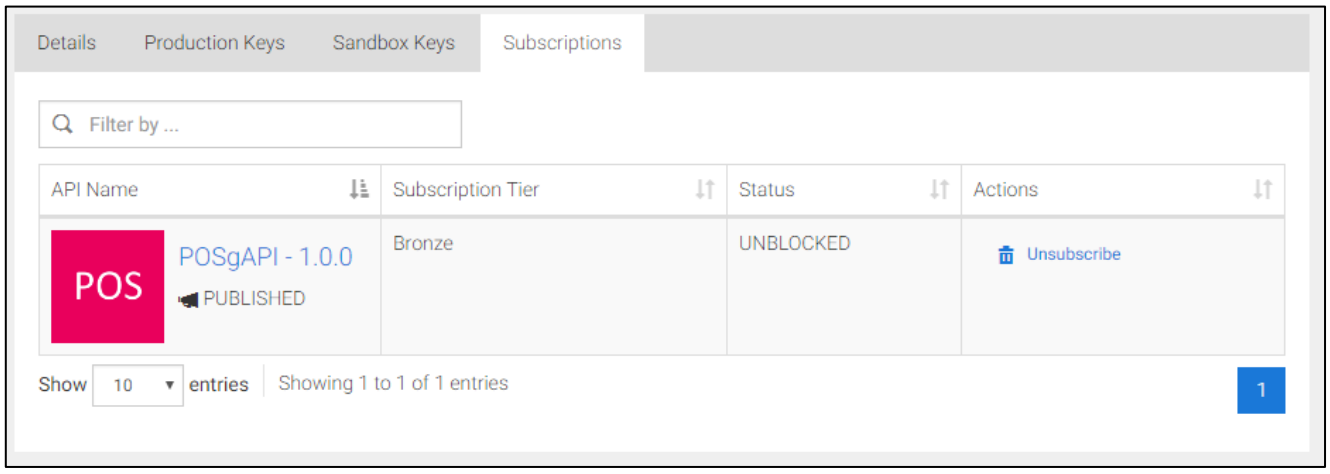


Keys are regenerated (Consumer Key & Consumer Secret)

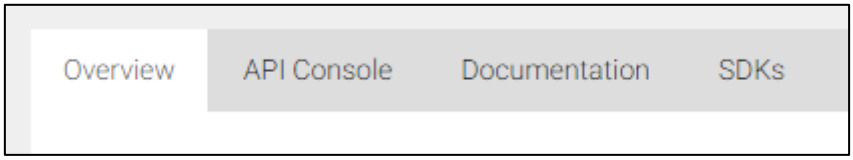


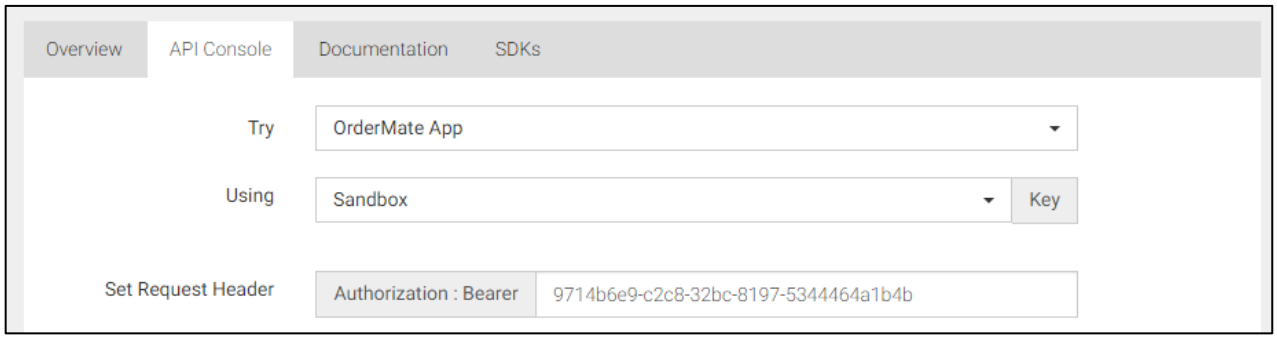
6. LEARN AND TEST APIS AT API CONSOLE

Step 4: Click on “Subscriptions” tab

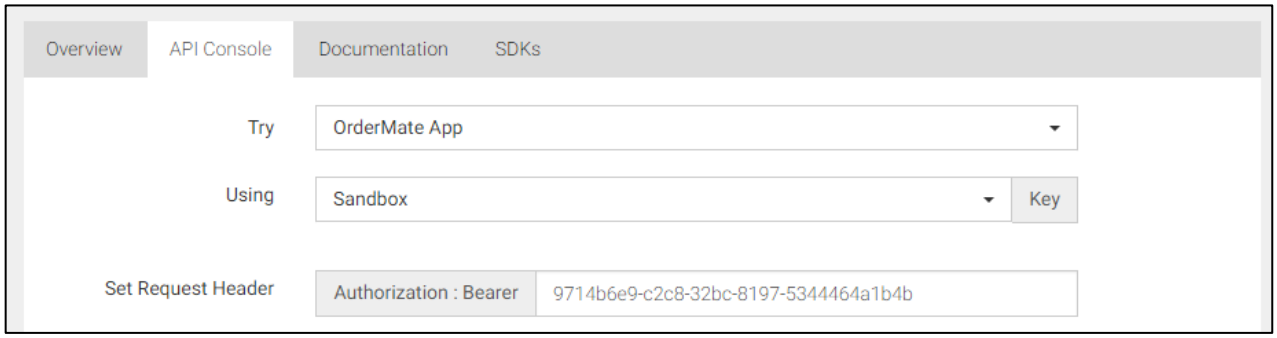


Step 5: Select the API to open the API page → Click on “API Console” tab

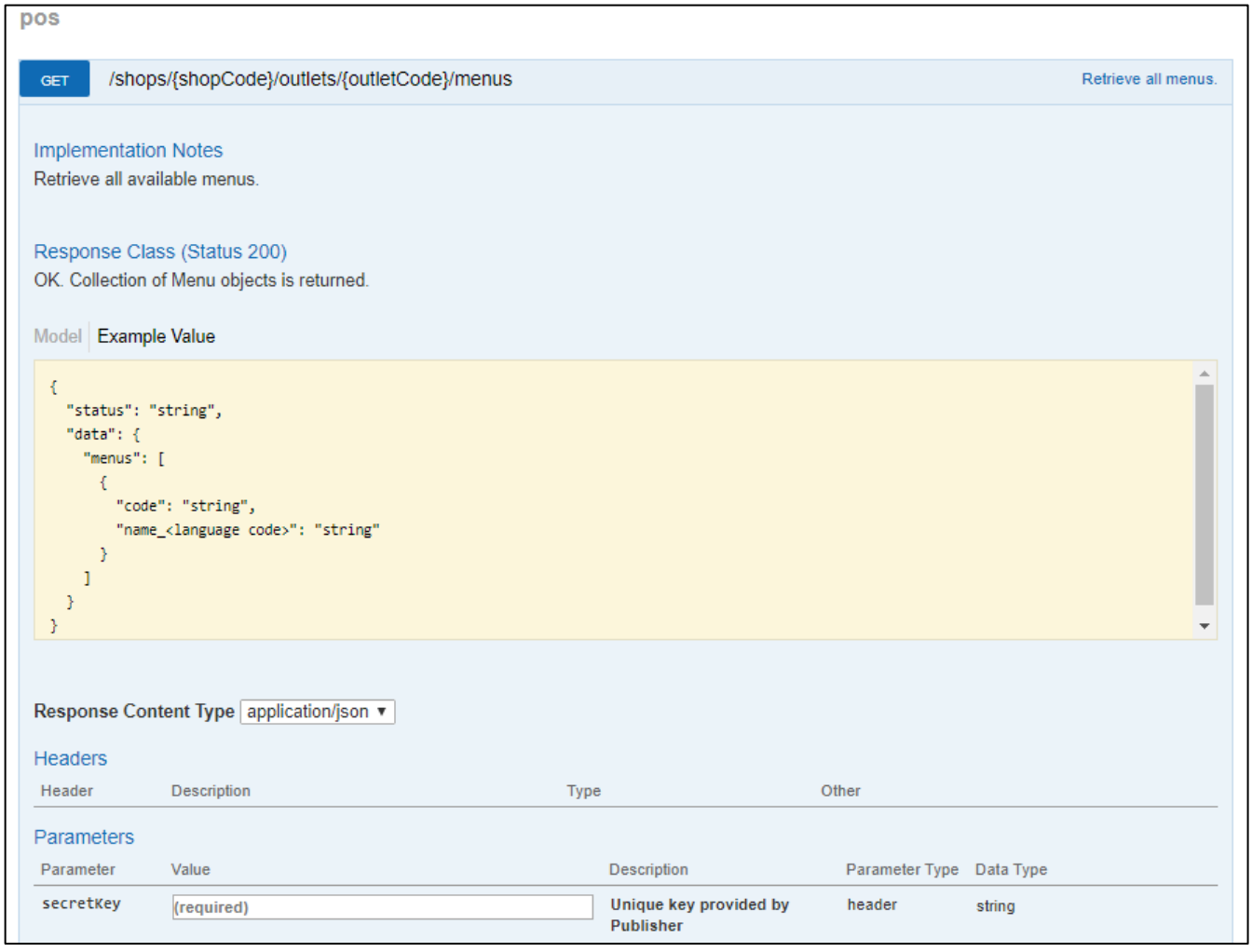




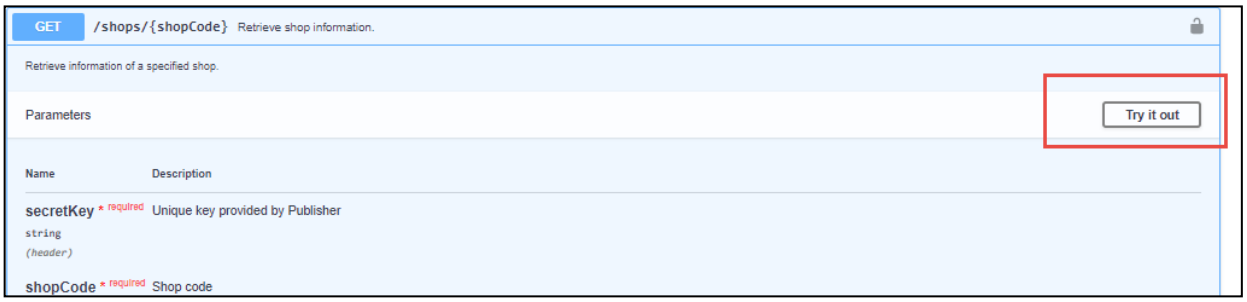
Step 6: Try the API with Sandbox: Change “Using” to “Sandbox”.



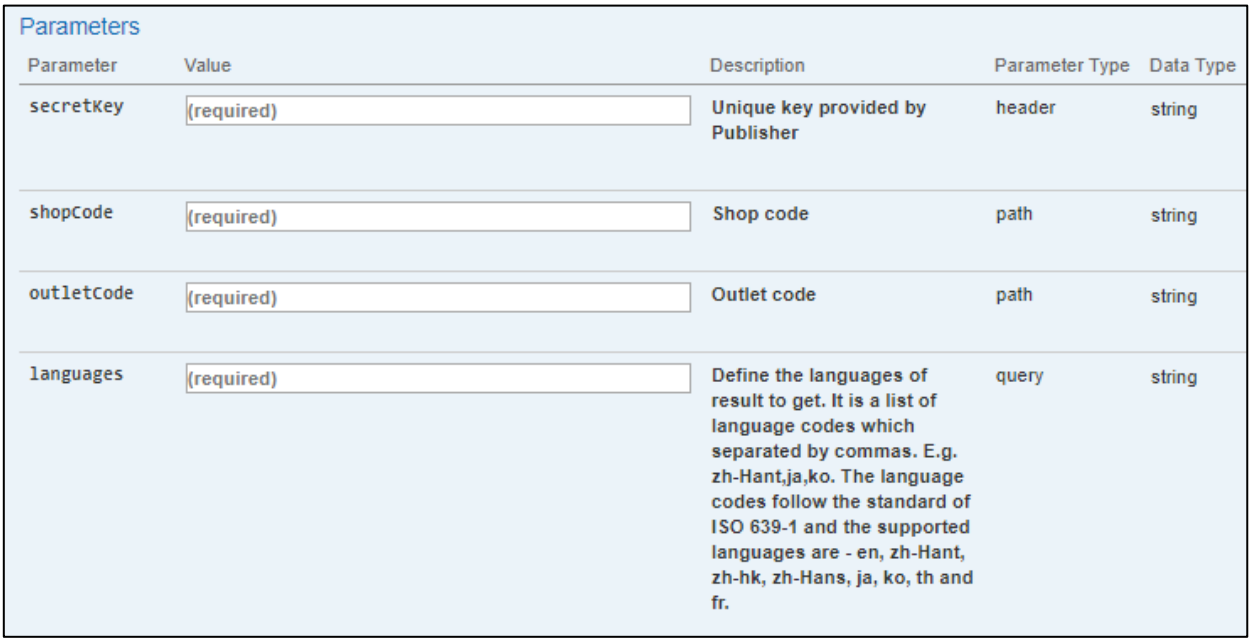
Step 7: Click on each API link to view API details



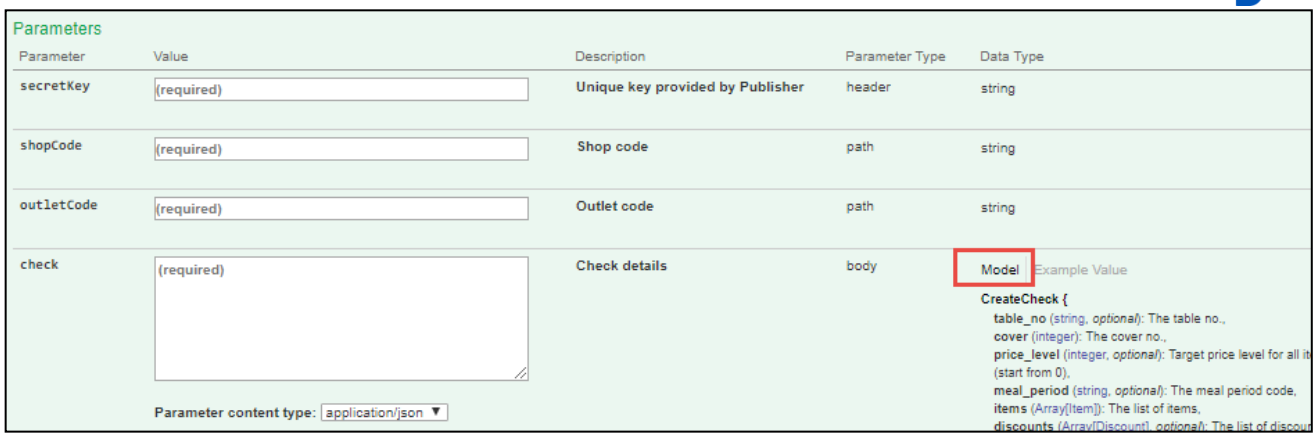
For **CN region**, press “Try it out”.



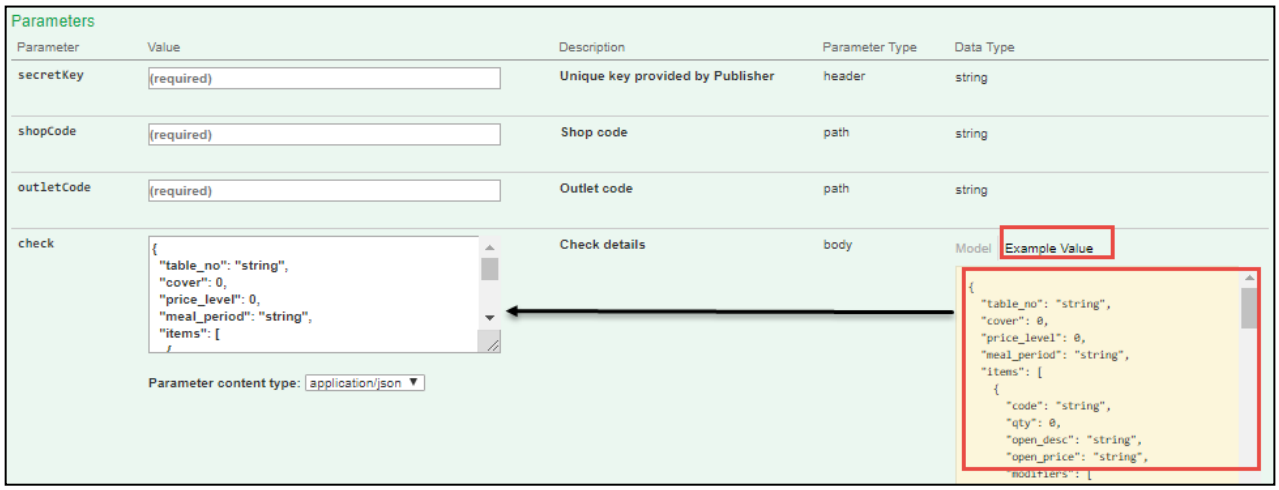
Step 8: Fill in the API parameters



Click “Model” for the parameter detail.

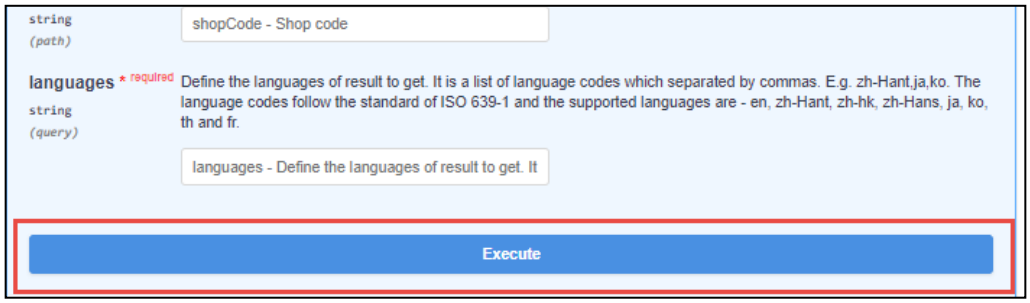


Click “Example Value” for parameter template. And click on the content, the example will be available for use.

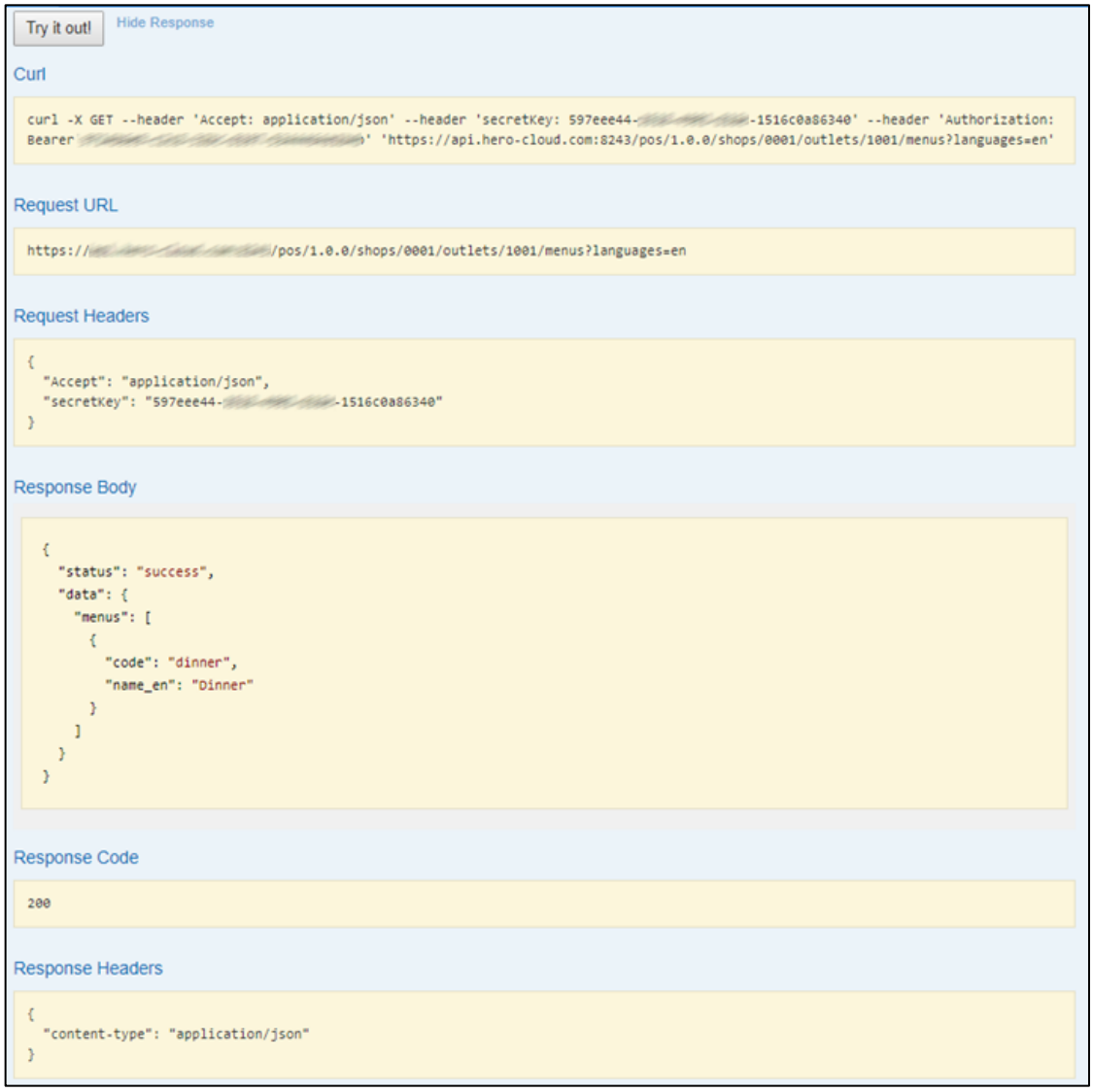


Step 9: For Global region, press “Try it out!” button to submit the API test request.

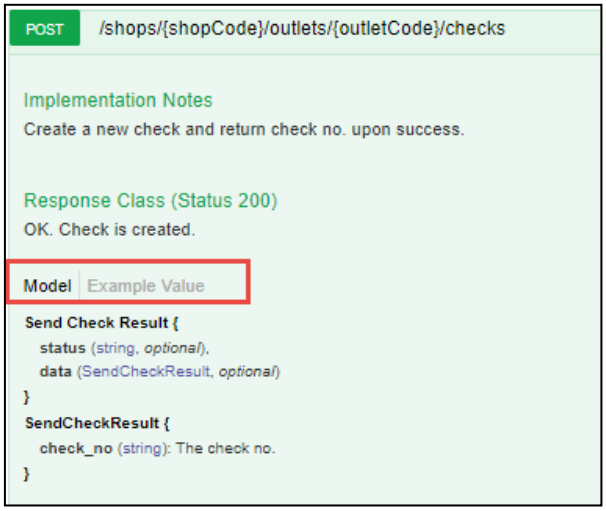
For CN region, press “Execute” button to submit the API test request.



The response message is shown below.



The reponse message model and example is availale under “Response Class”.



Secret Key and API Specific Parameters

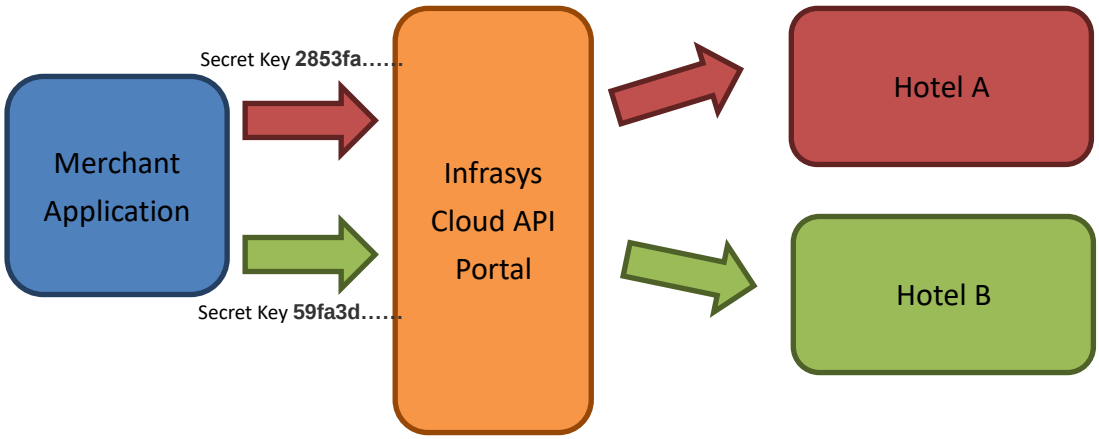
When you need to perform the testing, you need to put the Secret Key and the specific parameters to the API Console or your own testing tools.

"Secret Key" is the key granted to you to access the specific data scope.

e.g. You can use the specific Secret Key to access all outlets of "Lake Hotel".

or You can use another specific Secret Key to access "Grill Room" and "In-Room Dining" only in "Sky Hotel".

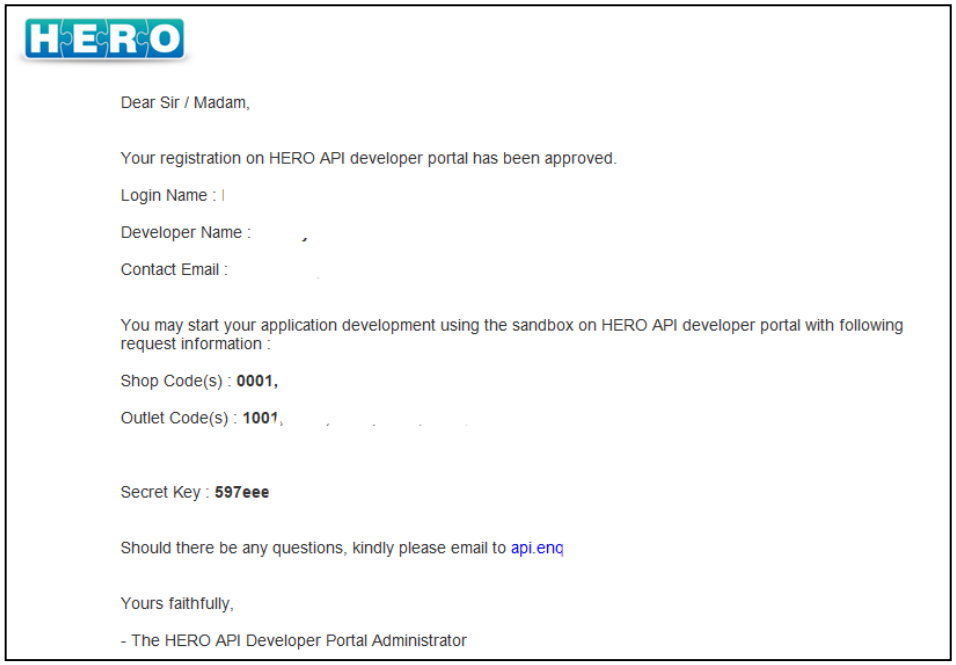
Therefore you can use specific Secret Key in the api to access the particular outlets.



When will you get the "Secret Key"?

When your application is subscribed by any Merchant in our API Application Market, you will receive an email showing you the "Secret Key" and the outlet information. Then you can use those information in your application to access the resources through our API Portal.

First "Secret Key" you received is the one for you to access the sandbox environment for your testing. You should receive it after your "User Account" registered successfully.



Dear Sir / Madam,

Your registration on HERO API developer portal has been approved.

Login Name : l

Developer Name :

Contact Email :

You may start your application development using the sandbox on HERO API developer portal with following request information :

Shop Code(s) : **0001,**

Outlet Code(s) : **1001**,

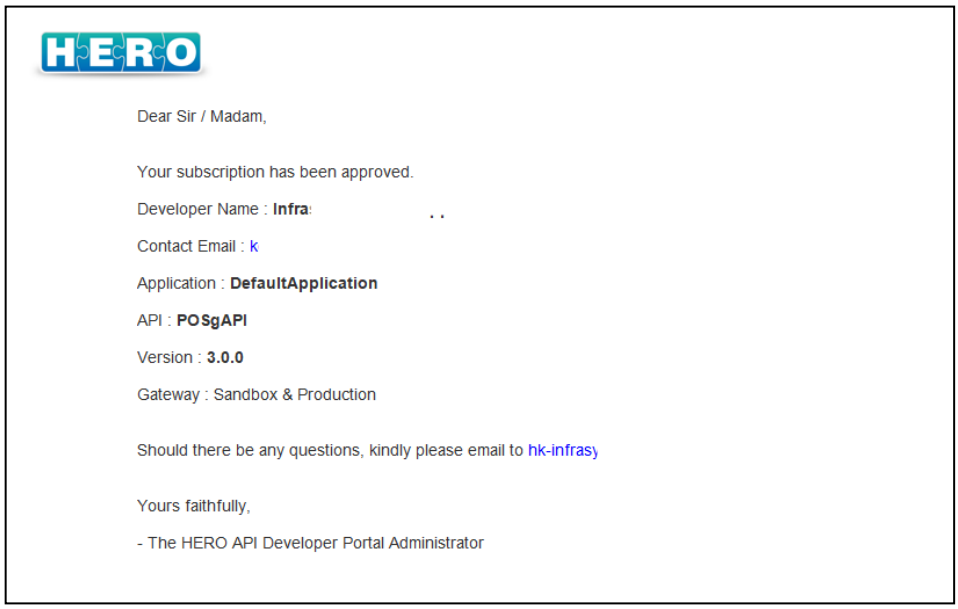
Secret Key : **597eee**

Should there be any questions, kindly please email to api.enq

Yours faithfully,

- The HERO API Developer Portal Administrator

Sample email after “Application Subscription” by Merchant



Dear Sir / Madam,

Your subscription has been approved.

Developer Name : **Infra**

Contact Email : k

Application : **DefaultApplication**

API : **POSgAPI**

Version : **3.0.0**

Gateway : Sandbox & Production

Should there be any questions, kindly please email to hk-infras

Yours faithfully,

- The HERO API Developer Portal Administrator

7. CN REGION AND GLOBAL REGION DIFFERENCES

	CN region	Global AWS
URL	https://api.hero-cloud.cn:9443/store	https://api.hero-cloud.com:9443/store
Extra Grant Types	JWT	
Access Tokens Generation - Password Grant type	curl -k -d "grant_type=password&username=Username&password=Password&scope=Scope1 Scope2" -H "Authorization: Basic aTJ0OUJ1XzFBUzJoXzNSZ2ZWU2NPdEYwczN3YTpCSjhPdFRxX3pqQk5TS1U0X0VjY3B6c0ZLZ0Vh" https://api.hero-cloud.cn:8243/token	curl -k -d "grant_type=password&username=Username&password=Password" -H "Authorization: Basic ZU1faTYzSThRdGNoNFM2Qk5wZGFyVUJ3ZXpFYTpCZE1mc3NDN1lwcjdvZUlTRmk4ekhlU0JwZ0lh" https://api.hero-cloud.com:8243/token
Access Tokens Generation -Client Credential grant type	curl -k -d "grant_type=client_credentials&scope=Scope1 Scope2" -H "Authorization: Basic aTJ0OUJ1XzFBUzJoXzNSZ2ZWU2NPdEYwczN3YTpCSjhPdFRxX3pqQk5TS1U0X0VjY3B6c0ZLZ0Vh" https://api.hero-cloud.cn:8243/token	curl -k -d "grant_type=client_credentials" -H "Authorization: Basic ZU1faTYzSThRdGNoNFM2Qk5wZGFyVUJ3ZXpFYTpCZE1mc3NDN1lwcjdvZUlTRmk4ekhlU0JwZ0lh" https://api.hero-cloud.com:8243/token
Scopes	By Module	By Application
Request URL	https://api.hero-cloud.cn:8243/	https://api.hero-cloud.com:8243

8. API INTEGRATION TO YOUR OWN APPLICATION

You are great to reach this section! You are going to integrate this API with your own application. You can use the links shown in the API Console for your application testing use.

Hints for your integration

- Prepare Secret Key and API Specific Attributes (e.g. Shop code, Outlet code)
- Prepare the "Consumer Key" and "Consumer Secret"
- Generate "Access Token"
    - It must be included in each API call.
    - Token has a validity of 3600 second. Before expiry, you can use the same Token for the API calls.
    - Generation Methods
        - Using curl as described in developer portal
        - Using HTTP POST with following configurations:
          Request Url: $api_portal_url/token

HTTP headers:

Name	Value	Explanation
Accept	application/json	
Authorization	Basic $value	For the $value: please use base64 to encode your consumer key and consumer secret using the following pattern: base64(consumerKey:consumerSecret)

HTTP POST Body:

```
grant_type=password&username=$devUserName&password=$devUserPw
```

$devUesrName and $devUserPw are the user login credentials in developer portal.

- Fire the HTTP POST request.
- The access token is generated. The response packet:

```
{"access_token":"8a7ee529-9c24-3198-a758-6142a8515efa",
"refresh_token":"95462565-a0bf-36b3-a054-ba4375ce123c",
"scope":"default","token_type":"Bearer","expires_in":3600}
```

- API Integration to your application
  - General HTTP headers required for all APIs:

Name	Value	Explanation
Accept	application/json	
secretKey	$secretKey	For using sandbox, developers should get the secretKey from abovementioned registration approval email
Authorization	Bearer $accessToken	Previously generated access token
Content-Type	application/json	

  - Parameter Type

    Example: $api_portal_url/preorder/1.0.0/shops/**S001**/outlets/**O001**/menus?languages=en,zh-Hant

Parameter Type	Explanation	Example
header	HTTP Header	
path	RESTful format request url	shops/S001/ outlets/O001
query	HTTP request query	?languages=en,zh-Hant
body	HTTP request body	{ "items": [// item details …] }], "table_no": "2", // other required parameters … }

Remarks:

Available shop codes and outlet codes can be extracted from each Merchant Subscription to your application

  - Special parameter specification

Parameter	Format	Example
languages	ISO 639-1 Standard	en, zh-Hant, zh-Hans, ja, ko, th, fr
date	yyyy-MM-dd	2017-04-03
time	ISO 8601 Standard	2004-02-12T15:19:21+00:00

9. CERTIFICATION

After the integration, your application can integrate to our applications.

Please make the trial run for your application at the sandbox environment. After that, please extract the communication log and send to us (API Portal Admin) for verifications. Once it is passed, you will gain the Production environment access and start the API Integration to the real life customers.