Airport & Aviation Services
(Sri Lanka) Limited

POS API FOR MONTHLY SALE OF SHOPS

Designed by: SE Section / IT Division

Web API stands for Web Application Programming Interface designed to access data or a feature of an application using most common HTTP methods such as GET, POST, PUT and Delete etc.

POS API

Point of Sale Application was developed to manage sales and store data of their shop. POS API is developed for users who doesn't use AASL POS Application to insert sales data directly to POS Database.

Sale Data:

To enter sales information use following parameters with mentioned data types. Required fields are mandatory and not required or not compulsory fields are not mandatory.

Shop Id and Key values will be provided by AASL IT team until then please use test data.

- Column Names and Data Type:

Parameter Name	Data Type	Description	Required/ Not Required
apiFunction	Varchar	Use hardcoded "bill" as value to send bill data.	R
ShopId	Int	The id given by IT Team of AASL to identify the Shop	R
UNIT_PRICE	Varchar	Discounted Item-wise price (i.e. final price)	R
TRANSACTION_TYPE	Varchar	For Actual bill: payment For Cancelled Bill: cancel	R
VOID_CANCELATION_TYPE	Varchar	Reason for cancelling a bill Null/Empty in case of actual Bill	R
TRANSACTION_TIME	Time	Time of the transaction [HH:MM:SS]	R
TRANSACTION_DATE	Date	Date of transaction [YYYY-MM-DD]	R
TOTAL_AMOUNT_BEFORE_DISCOUNT	Decimal	Amount before discount	NR
TOTAL_AMOUNT_AFTER_DISCOUNT	Decimal	Amount after discount	NR
SHOP_NAME	Varchar	Name of the shop	R
SHOP_ID	Varchar	Branch id / Shop No (Please enter space no. given by AASL; eg: D2)	R
SALES_TAX_PERCENTAGE	Decimal	Tax percentage. Hardcoded 0, please send 0 value	NR
SALES_TAX	Decimal	Tax Amount Hardcoded 0, please send 0 value	NR
QUANTITY	Decimal	Item Quantity	R
PRODUCT_SUB_CATEGORY	Varchar	Sub Category of product	NR

PRODUCT_NAME	Varchar	Name of product	R
PRODUCT_CATEGORY	Varchar	Category of Product	R
PAYMENT_METHOD	Varchar	Payment Method Cash / Card Payment	R
PASSPORT_ID	Varchar		NR
PASSENGER_ID_NAME	Varchar	Passenger name	NR
NET_SALES	Decimal	Net Sales Amount	R
NATIONAL_ID	Varchar	National Id	NR
NATIONALITY	Varchar	Nationality	NR
MINUS_TAX	Decimal	Tax minus amount	NR
LOCATION	Varchar	Location of shop	R
INVOICE_NUMBER	Varchar	Invoice No	R
GENDER	Varchar	Gender of passenger	NR
FLIGHT_DATE_TIME	Varchar	Flight Date and time	NR
FLIGHT	Varchar	Flight NO	NR
DISCOUNT_TYPE	Varchar	Discount description	NR
DISCOUNT_AMOUNT	Decimal	Discount amount	NR
CURRENCY	Varchar	Item's Base Currency type	R
CONCESSIONAR_NAME	Varchar	Concessionaire's Name	NR
BRAND_NAME	Varchar	Item's Brand Name	R
BIRTHDATE	Date	Birthday of passenger	NR
AIRPORT_ORG	Varchar	Origin of travel	NR
AIRPORT_DES3	Varchar	Airport Destination	NR
AIRPORT_DES2	Varchar	Airport Destination	NR
AIRPORT_DES	Varchar	Airport Destination	NR
ACTUAL_PAYMENT_CURRENCY_TYPE	Varchar	Paid currency name	R

Highlighted Fields indicates Mandatory Parameters that are Required.

For non-mandatory Parameters data should be sent as empty values.

Multiple currency

A payment can be done in multiple currency. User can use following parameters to send that data as a json object.

Parameter Name	Data Type	Description	Required/Not Required
apiFunction	Varchar	Use “currency” as value to send currency data.	R
shopId_cur	Int	Shop ID given by AASL IT team	R
INVOICE_NUMBER_curr	Varchar	The bill/ invoice Number of the sale	R
currencyType_curr	Varchar	Cash or Credit	R
CurrencyName_curr	Varchar	Name of the currency	R
amount_curr	Decimal	Currency Amount	R

Highlighted Fields indicates Mandatory Parameters that are required.

With the request of Developers of duty-free shops, we designed 2 APIs to send data. Either of them can be used to send data.

OPTION 01

This was designed to send data easily without having multiple json objects for each sale item. Each sale item should be send as a request.

We have 2 functions to enter a sale information.

- Sale data
- Multiple currency data

User can send data using 3 methods to the API.

- Form Post
- Xml object
- Json object

Following code can be used for the development if necessary. The codes were tested at a live server.

Form post

Form post method can be used to send data like html form. Following parameters should be available for such a request.

url:
https://pos.airport.lk:8005/monthlySaleAPI/salesController/
Type : POST
Data Type: json

XML object

User can send sale information as xml object. Xml should be send after convert using “serializeToString” method.

url:
https://pos.airport.lk:8005/monthlySaleAPI/salesController/
Type : POST
Data Type: xml

```
$("#btnXML").click( function()
{
  var xmlString = loadXMLDoc("test2.xml");

var s = new XMLSerializer();
var newXmlStr = s.serializeToString(xmlString);

      $.ajax({
      url:   'https://pos.airport.lk:8005/monthlySaleAPI/salesController',
      type:   'POST',
      dataType: 'xml',
      data            :   'data=' + encodeURIComponent(newXmlStr),
      contentType: "application/xml",
      success         :   function( data ) {

      },
      error           :   function() {
          alert('failed to send ajax request');
      },
      complete        :   function() {
          alert('ajax request completed');
      }
      });
```

Json Object.

Sales information can be sent to the API as a json object.

Bill data Ajax Request

url: https://pos.airport.lk:8005/monthlySaleAPI/salesController/

```
$("#btnJson").click( function()
{
    $.getJSON("sale23.json", function(data) {
    var dataString = JSON.stringify(data);
    $.ajax({
        url: "https://pos.airport.lk:8005/monthlySaleAPI/salesController/",
        type: "post",
        data: dataString,
        dataType: 'json',
        contentType: 'application/json',
        success: function () {
        },
    });
  });
});
```

Currency Data Ajax Request

```
$("#btnJson2").click( function()
{
    $.getJSON("currency.json", function(data) {
    var dataString = JSON.stringify(data);
    $.ajax({
        url: "https://pos.airport.lk:8005/monthlySaleAPI/salesController/",
        type: "post",
        data: dataString,
        dataType: 'json',
        contentType: 'application/json',
        success: function () {
        },
    });
  });
});
```

OPTION 02.

Option 2 can be used to send sale information in 1 request. The structure of the json file is different that the Option 01.

Url: https://pos.airport.lk:8005/dutyfreeposapi/salesController/

```
$("#btnJson2").click( function()
{
    $.getJSON('multipleLine.json', function(data) {
    var dataString = JSON.stringify(data);
    $.ajax({
        url: 'https://pos.airport.lk:8005/dutyfreeposapi/salesController/',
        type: 'post',
        data: dataString,
        dataType: 'json',
        contentType: 'application/json',
        success: function () {

        },

    });


  });

});
```

Key and Shop ID will be assigned to you by Commercial and Property Division.

Response Data.

After sending data to API, response will send following data to verify if data was updated successfully.

REPONSE STATUS :

200 (OK) - Success connection.

500 (Internal server error) – contact AASL IT (Erandi.it@airport.lk)

404 (Not found) – contact AASL IT (Erandi.it@airport.lk)

- Success result : {"key":"123123","id":51,"status":"success"}
- Fail result : {"key":"123123","id":0,"status":"fail"}

Key: the encrypted key given by AASL IT team to validate response

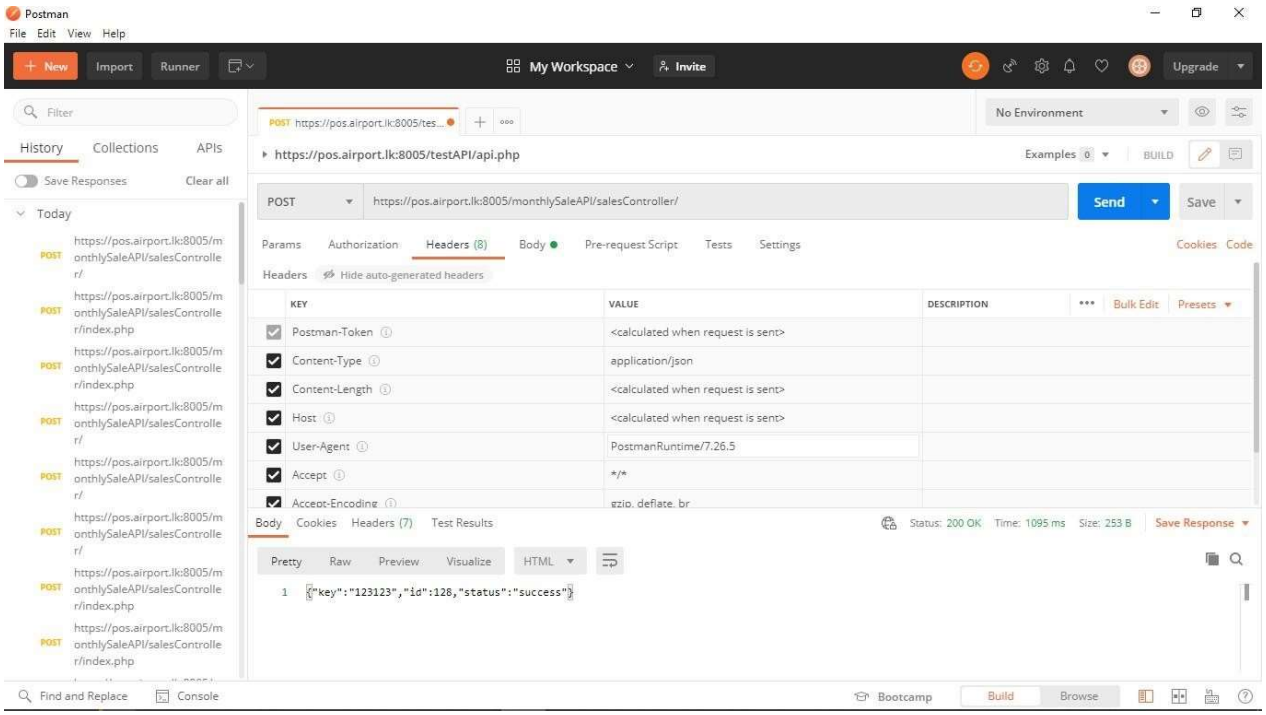
authentication. Id : The updated record id.

Status : The status of the API transaction.

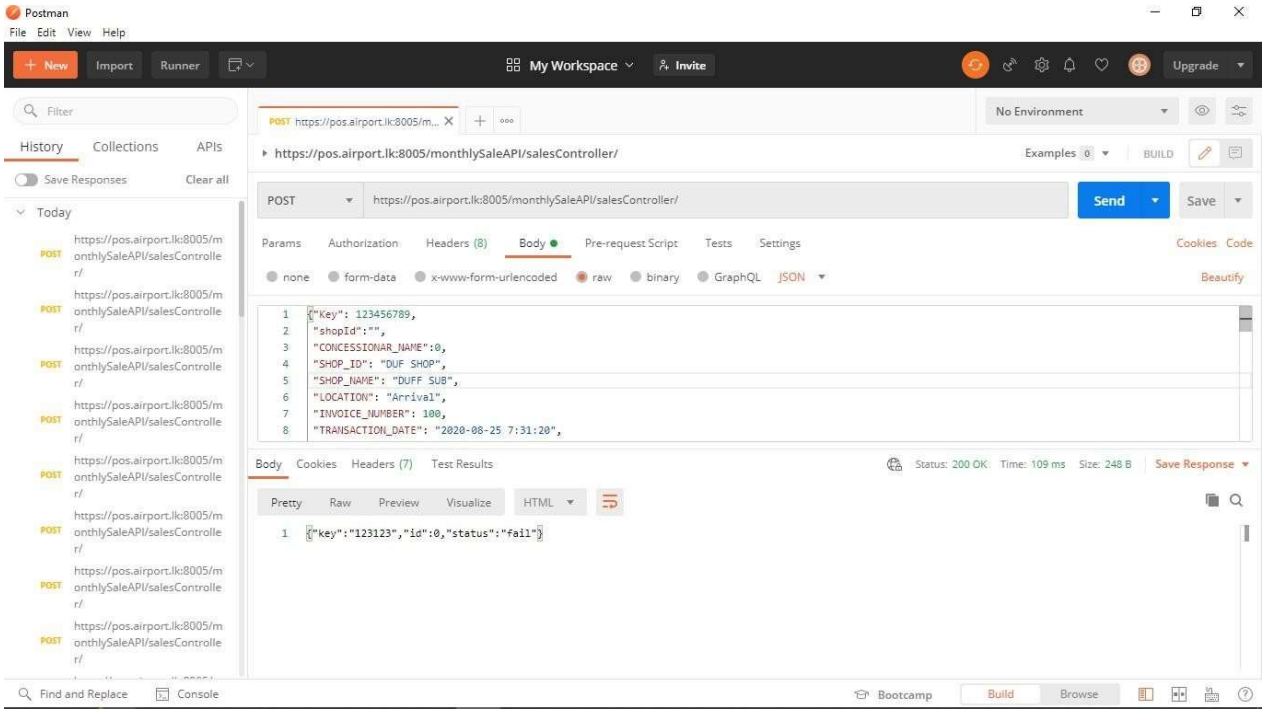
Tested Postman Data - OPTION 01

1. Sale information

- When inserted successfully:

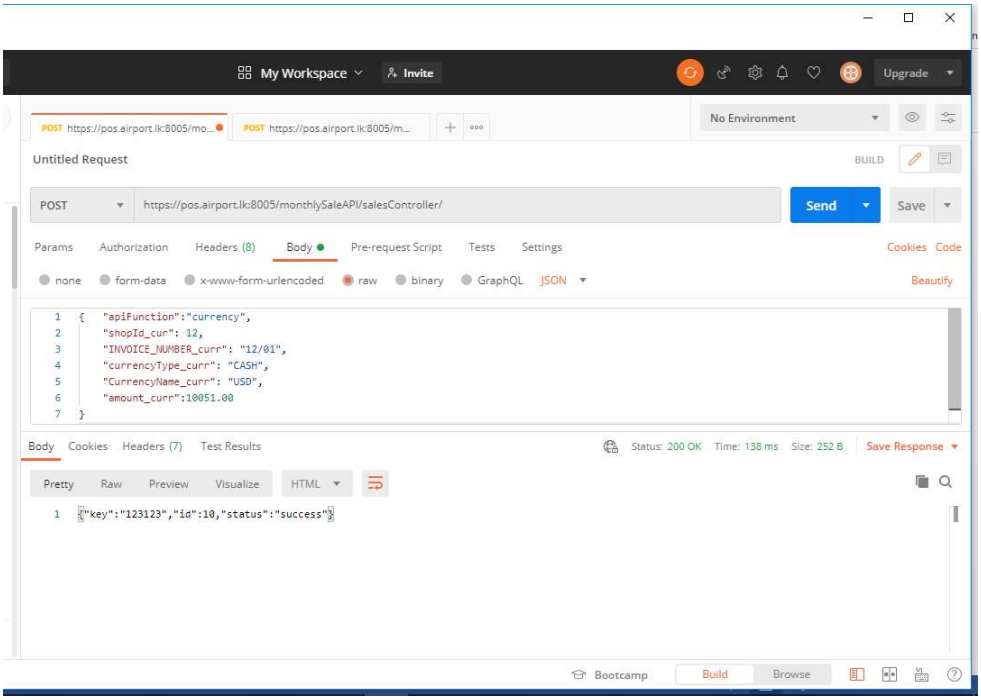


- When Insert fails

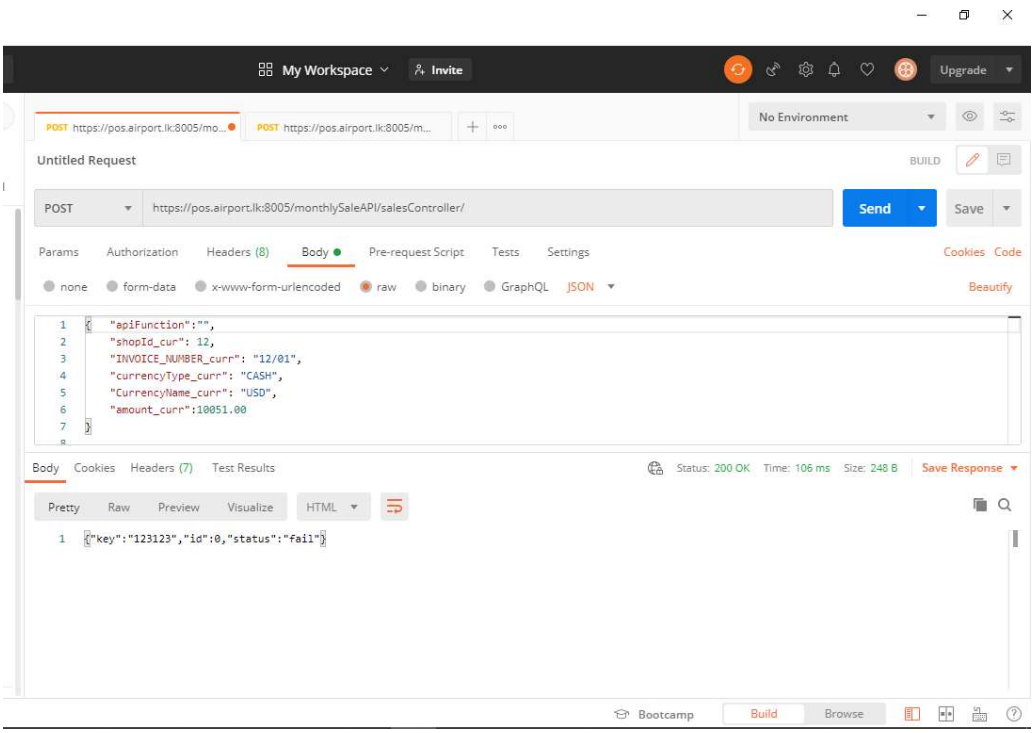


2. Currency data

- When Inserted successfully



- When Inserted failed.



Tested Postman Data OPTION 01