# Developer Guide

# For

# Online Payment

# API Integration

# V2.1



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## Introduction:

Bookeey provides/facilitates Payment Gateway (PG) Services to the Merchants/Agents' ecommerce platforms through simple API (Application Programmers Interface) integration or plugins for various popular e-commerce platforms such as Woocommerce, Wordpress, Magento and others.
The Merchant's developers can use this document as a guide for API integration between their e-commerce platform (Application/Website) and the Bookeey payment gateway to provide online payment service to their customers in the checkout step to complete the sale flow and ensure payment collection.

## Merchant Registration:

To become a Bookeey Merchant, the Merchant has to provide their company details for creating merchant account.
Currently, the registration process is manual, so the Bookeey Customer Care will coordinate with the Merchant to complete this process.
To become a Bookeey Merchant contact us on 222 0000 1 or email customercare@bookeey.com

After successful Completion of the registration & Merchant account creation, Bookeey will provide Merchant Unique Identification Code (MID) & Secret Key to the Merchant. The MID & Secret Key will be used for further references.

Example:
MID : Mer2000012
Secret Key: 1234567

**Sub Merchant Registration:**

Bookeey also offers multi-vendor setup for merchants who has a marketplace where products & services of other traders/sellers are offered and merchant wishes for Bookeey to do settlement with the traders/sellers while calculating a revenue share for the merchant, The Trader/Seller who is using Merchant's Services is called Bookeey Sub Merchant.

If you require multivendor setup, please contact your account manager to provide you the multivendor API document.

**Section 1: Specifications of API**
All requests coming to Bookeey platform is to be passed through a HTTPS Post both Testing and Production.

**Section 2: API Implementation:**

**JSON String :**

There are several sections in the JSON input string. The description of the parameters and the value described below.

- **Do_Appinfo**

The purpose of this section is to specify general information particularly application and api version

**Input field details:**

| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| AppTyp | Application Type – Is the application WEB or Mobile | No | Yes | 1. WEB, 2. MOB |
| IPAddrs | IP Address of the System in which the Application is running | No | No | |
| Country | The Country | No | No | |
| AppVer | User Application Version | No | Yes | |
| ApiVer | Bookeey API version | No | Yes | |
| APPID | Application ID | No | No | |
| MdlID | Module ID | No | No | |

- **Do_MerchDtl – Data Object for Merchant Details**

The purpose of this section is to specify Merchant Details

**Input field details:**



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| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| MerchUID | Merchant Unique ID | Yes | Yes | Merxxxxxx |
| BKY_PRDENUM | Bookeey Product ID | YES | Yes | ECom |
| FURL | Failure URL Of the Merchant | NO | YES | |
| SURL | Success URL Of the Merchant | NO | YES | |

- **Do_PyrDtl – Data Object for Payers/Customers**

The purpose this section is to specify the Payers/Customers Details

**Input field details:**

| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| Pyr_MPhone | Payer/Customer Mobile Phone Number | No | No | |
| ISDNCD | Phone Country Code | No | No | 965 for Kuwait |
| Pyr_Name | Payer/Customer Name | No | No | |

- **Do_TxnHdr – Data Object Transaction Header**

The purpose of this section is to specify Transaction Header Details

**Input field details:**

| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| Merch_Txn_UID | Merchant Transaction Unique ID - Provided by the Merchant – Used for Reconciliation/Reference | No | Yes | |
| PayFor | The Payment is for ECom Transaction | Yes | Yes | ECom |
| Paymethod | Payment Method | No | Yes | KNET,credit, amex,Bookeey |



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| | | | | |
|---|---|---|---|---|
| Txn_HDR | It is an Random Number. The number should be generated whenever the payment process request is sent. This should be unique for every payment request | No | Yes | 89729347 |
| hashMac | Payment Authorization Key. The hashmac generation procedure given below | No | Yes | |

- **Do_TxnDtl – Data Object Transaction Details**

The purpose of this section is to specify Transaction Details.

**Input field details:**

| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| SubMerchUID | For single merchant – pass MID | No | Yes | merxxxx |
| Txn_AMT | Transaction Amount | No | Yes | |

| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| DBRqst | Data Base Request | Yes | Yes | PY_ECom |

**Sandbox URL:** https://apps.bookeey.com/pgapi/api/payment/requestLink

**Production URL:** https://pg.bookeey.com/internalapi/api/payment/requestLink

Method: POST

Header Value:

Content-Type: application/ json



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**Sample Request Data:**

```
{
  "DBRqst":"PY_ECom",
  "Do_Appinfo":{
    "APIVer":"",
    "APPID":"",
    "APPTyp":"",
    "AppVer":"",
    "Country":"",
    "DevcType":"5",
    "HsCode":"",
    "IPAddrs":"",
    "MdlID":"",
    "OS":"Android",
    "UsrSessID":""
  },
  "Do_MerchDtl":{
    "BKY_PRDENUM":"ECom",
    "FURL":"https://demo.bookeey.com/portal/paymentfailure",
    //   failure Url of leservices/
    "MerchUID":"mer2000032",
    //leservice merchantId
    "SURL":https://demo.bookeey.com/portal/paymentSuccess
    //leservice success url
  },
  "Do_MoreDtl":{
    "Cust_Data1":"",
    "Cust_Data2":"",
    "Cust_Data3":""
  },
  "Do_PyrDtl":{
    "Pyr_MPhone":"",
  //customer phone
    "Pyr_Name":""
    //customer name
  },
  "Do_TxnDtl":[
    {
    //leservice merchantId
      "SubMerchUID":" mer2000032",

      "Txn_AMT":"10"
      // amount customer has to pay
    }

  ],
  "Do_TxnHdr":{
    "BKY_Txn_UID":"",
    "Merch_Txn_UID":"141679915688",
    // unique ref no to track leservice and bookeey
    "PayFor":"ECom",
    "PayMethod":"knet",
```

```
        // payment Method it should be
        knet,credit,amex and bookeey
        "Txn_HDR":"1456697859915678",
        // unique ref no to trak leservice and bookeey

        "hashMac":""
      }
    }
```

**Response for KNET:**

```
{

"PayUrl":
"https://kpaytest.com.kw/kpg/PaymentHTTP.htm?param=paymentInit&trandata=3FCED71B19AB8D46461C6EE528F0EB42D72C44D
036D708D6C
B31734AEBDE9D98B7AC1A8D411688ABD40605DF6DF4369469F9AF677172C7E532A8667C5C2E724F0954B45651F6D976767D8712F
F5CAE6AB23E
90D9D0AAFBE4EC9EBA8DF638DB1441476500168ECC20AA7418AE3C5A9BE5F54DBF464324C23713F0F1357C6DA701DF97123B5D61
3E3651B966
174C5CA11B2B7B8F055861AF632C7EA2DEC635720D8826E214FA39209D4D371C2EF5A5A74BAB6AC67BAC79B07380CC9AE79FDFC4
789FA8EEB2
00AD801195086BBA3DAE9A14360C2728211646556A5486384D4D888712A5331B1341C4380AAA1CCE606C87E237E0F72C87089510
8F7917093B4
7E8F9&errorURL=https://apps.bookeey.com/pgapi/api/payinvoice/KfastFail/14950373161&responseURL=https://apps.bookeey.com
/pgapi/api/p ayinvoice/KfastSuccess/14950373161&tranportalId=108401",

"PaymentGateway": "KNET", "ErrorMessage": "Success"
}
```

**Success Response:**

After the transaction is completed we will redirect to your success URL with the below parameters

merchantTxnId=5126853645632381 – Your order Id
&txnId=2042144174360 - Bookeey Transaction Id
&errorCode=0 -success
&finalstatus=c3VjY2Vzcw==

**sample Redirection URL:**

https://demo.bookeey.com/wc-api/wc_gateway_bookeey/?
merchantTxnId=5126853645632381&txnId=2042144174360&errorCode=0&finalstatus=c3VjY2Vzcw==

**Failure Response:**

In case of transaction failure we will redirect to your failure URL.

merchantTxnId=5126853645632382 -- your order Id
&errorMessage=Not%20Captured -- error message
&errorCode=1 -- failure
&txnId=2042175946742 – bookeey transaction Id
& finalstatus=RmFpbHVyZQ==

**sample Redirection URL:**

https://demo.bookeey.com/wc-api/wc_gateway_bookeey/?merchantTxnId=5126853645632382&errorMessage=Not%20Captured&errorCode=1&txnId=2042175946742&finalstatus=RmFpbHVyZQ==

**Section 3: Payment Status Inquiry Service**

There will be a chance for network disconnection or delay in getting response from the Payment provider such as Knet, so the Payment process Status will not be sent to the Merchant. Bookeey Provides a requery API to check the Payment Status for transactions still pending and final status was not received at real time.

**Specifications of API**
All requests coming to Bookeey platform is to be passed through a HTTP GET both for Testing and Production.

**API Implementation:** JSON string

**Input field details:**

| Parameter Name | Description | Is Fixed Value | Is Mandatory | Possible Values |
|---|---|---|---|---|
| MerchantTxnRefNo | Merchant Transaction Unique ID | No | Yes | |
| hashMac | Payment Authorization Key. The hashmac generation procedure given below | No | Yes | |

**Sandbox URL:** https://apps.bookeey.com/pgapi/api/payment/paymentstatus

**Production URL:** https://pg.bookeey.com/internalapi/api/payment/paymentstatus

Method: GET / POST

Content Type: application/ json

**Sample Request Data:**


```
{
  "Mid": "mer2000032",
  "MerchantTxnRefNo": [
    "141679915688"
  ],
  "HashMac": "fa1ffd7655312b7d54bb284d4515e4f02aeec4617ba06fa2eff793d1d2de01f3df703ace1e3d8b0b9ae5a2273e79351543152ce2f69f8470300784fb4a8022b9"
}
```




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Response:
Please compare the latest status of the transaction using this field "finalStatus": "failed"
In response there are four Statuses: failed, success, initiated, cancelled


```
{
  "PaymentStatus": [
    {
      "MerchantTxnRefNo": "722282781735",
      "PaymentId": null,
      "ProcessDate": null,
      "StatusDescription": "Transaction Not Found",
      "BookeeyTrackId": "2022447774951",
      "BankRefNo": null,
      "PaymentType": null,
      "ErrorCode": null,
      "ProductType": "BInv",
      "finalStatus": "failed"
    },
    {
      "MerchantTxnRefNo": "722282781735",
      "PaymentId": "098765432",
      "ProcessDate": "3/13/2021 7:24:00 PM",
      "StatusDescription": "Transaction Success",
      "BookeeyTrackId": "2022475062633",
      "BankRefNo": "oiuytre",
      "PaymentType": "KNET",
      "ErrorCode": "IPAY0100263",
      "ProductType": "ECom",
      "finalStatus": "success"
```




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```
    },
    {
      "MerchantTxnRefNo": "722282781735",
      "PaymentId": null,
      "ProcessDate": "3/13/2021 7:24:00 PM",
      "StatusDescription": "Transaction Initiated",
      "BookeeyTrackId": "2022475062633",
      "BankRefNo": null,
      "PaymentType": "KNET",
      "ErrorCode": "IPAY0100263",
      "ProductType": "ECom",
      "finalStatus": "initiated"
    },
    {
      "MerchantTxnRefNo": "7222827817356",
      "PaymentId": "2022475062633",
      "ProcessDate": "3/13/2021 7:24:00 PM",
      "StatusDescription": "Transaction Cancelled",
      "BookeeyTrackId": "2022475062633",
      "BankRefNo": null,
      "PaymentType": "KNET",
      "ErrorCode": "IPAY0100263",
      "ProductType": "ECom",
      "finalStatus": "cancelled"
    }
  ]
```

}

**Section 4: HashMac Calculation**

The HashMac parameter is required to be posted to the Bookeey server while making a transaction request. The post parameters present in the request are input to the generation of this data.

Digest Algorithm = SHA – 512

Secret Key = (To be provided by Bookeey)

**Payment request HashMac calculation**:

PaymentHashMac = SEQUENCE{<MerchUID>|<Merch_Txn_UID>|<SURL>|<FURL>|<Txn_AMT>|<crossCat >|<secret_key>|rndnum }

MerchUID = MerchUID (Bookeey will provide)

Merch_Txn_UID = transactionRefNo

SURL = suucees Url
FURL = failure Url

Txn_AMT = Transaction amount

crossCat = GEN

Rndnum= Random Number which has to be generated in Merchant application/site

secret_key = merchant key(Bookeey will provide you)

**Payment status request HashMac calculation:**
Paymentstatus = "mid|secret_key";Mid =

MerchUID (Bookeey will provide)

HashMac = COMPUTER SHA-512 OVER {Data to be digested} result 128 bit dataNote:

- The sequence of data in “Data to be digested” should not be altered.
- If an element in the post data is not present in the request, set the value as empty string.
- The secret key is string data which will be provided by Bookeey against each MID
- The ‘|’ is also the part of the string over which digest is calculated

_____End of Document _____



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