

## ibous RESTful payment API

### API for QRcode generation

#### Request Method

POST

#### Protocol

HTTPS

#### Data format

JSON

#### API URL

Production Environment: <https://ibous.com/api/CreatePaymentQRcode>

#### Request Parameter

- Header

Param	Type	Not Empty	Description
API-TOKEN-KEY	STRING	Yes	Unique API Key for user
API-TOKEN-SECRET	STRING	Yes	Unique API Secret for user

- Query Params

Param	Type	Not Empty	Description
qrcode_size	INT	Yes	Size of qrcode, accept value: 4,6,8, 10
amount	INT	Yes	Price of the product
currency	STRING	Yes	Currency codes (ISO 4217) Currency of the price of the product
item	STRING	Yes	Name of the product

Request Parameter Example:

Header

```
{  
  "API-TOKEN-KEY": "5d09355370b8b5d09355370bcf",  
  "API-TOKEN-SECRET": "5d09355370b8b5d09355370bcf"  
}
```

Query Params

```
{  
  "qrcode_size": "8",  
  "amount": "60",  
  "currency": "HTG",  
  "item": "Coca Cola"  
}
```

- **Return Parameter**

Param	Type	Not Empty	Description
error	STRING	Yes	Return code: false: success, true: Fail
status	STRING	Yes	Return a success or error message
qrcode_img	STRING	Yes	Return qrcode image url
qrcode_id	STRING	Yes	Return qrcode identification number

Return Parameter Example:

```
{  
  "error": false,  
  "status": "QRcode Payment generated successfully",  
  "qrcode_img": "https://www.ibous.com/qrcd/images_qrcode/QrCode_5d0a999adce061560975770/5d0a999b39d0d_Price=200HTG_NumSerial=57011560975771__c4690dd58a05f9426bf93828d9713882.png"  
  "qrcode_id": "45541560985041"  
}
```

## API for Payment Result

This API returns the status of the payment by QRcode.

This API must be called after the API for QRcode generation.

This api must be called with an autorefresh process, executed every 100 milliseconds until the return parameter: **payment status** returns:

- **2**: successful payment
- or**
- **3**: payment failed

For the auto refresh process: For android see more here:

<https://stackoverflow.com/questions/17113526/android-auto-refresh-after-a-certain-time>

**Request Method**

POST

**Protocol**

HTTPS

**Data format**

JSON

**API URL**Production Environment: <https://ibous.com/api/PaymentProcess>**Request Parameter**

- Header

Param	Type	Not Empty	Description
API-TOKEN-KEY	STRING	Yes	Unique API Key for user
API-TOKEN-SECRET	STRING	Yes	Unique API Secret for user

- Query Params

Param	Type	Not Empty	Description
qrcode_id	INT	Yes	identification number of the QRcode retrieved in the QRcode generation API

Request Parameter Example:

Header

```
{
  "API-TOKEN-KEY": "5d09355370b8b5d09355370bcf",
  "API-TOKEN-SECRET": "5d09355370b8b5d09355370bcf"
}
```

Query Params

```
{
  "qrcode_id": "40001561506926",
}
```

- **Return Parameter**

Param		Type	Not Empty	Description
error		STRING	Yes	Return code: <b>false</b> : Success, <b>true</b> : Fail
payment	status	INT	Yes	Return code: <b>1</b> : payment pending, <b>2</b> : successful payment <b>3</b> : payment failed
payment	id	INT	Yes	Return the payment identification number
payment	user	STRING	Yes	Return the name of the user who makes payment
payment	item	STRING	Yes	Return the product's name of the payment
payment	amount	INT	Yes	Return the payment's amount
payment	currency	STRING	Yes	Return the currency's payment
status		STRING	Yes	Return a success or error message

Return Parameter Example for payment success:

```
{
  "error": false,
  "payment": {
    "status": "2",
    "id": "45281561507392",
    "user": "Olriche Rosier",
    "item": "Soda",
    "amount": "200",
    "currency": "HTG"
  },
  "status": "Successful Payment!"
}
```

Return Parameter Example for payment pending:

```
{
  "error": true,
  "payment": {
    "status": "1"
  },
  "status": "Payment Pending"
}
```

Return Parameter Example for payment failed:

```
{
  "error": true,
  "payment": {
    "status": "3"
  },
  "status": "Payment Failed"
}
```

## API for payment Refund

### Request Method

POST

### Protocol

HTTPS

### Data format

JSON

### API URL

Production Environment: <https://ibous.com/api/PaymentRefund>

### Request Parameter

- Header

Param	Type	Not Empty	Description
API-TOKEN-KEY	STRING	Yes	Unique API Key for user
API-TOKEN-SECRET	STRING	Yes	Unique API Secret for user

- Query Params

Param	Type	Not Empty	Description
payment_id	INT	Yes	payment identification number retrieved in the payment result API

Request Parameter Example:

Header

```
{  
  "API-TOKEN-KEY ": " 5d09355370b8b5d09355370bcf ",  
  "API-TOKEN-SECRET ": "5d09355370b8b5d09355370bcf "  
}
```

Query Params

```
{  
  "payment_id ": " 45281561507392 "  
}
```

- Return Parameter

Param		Type	Not Empty	Description
error		STRING	Yes	Return code: <b>false</b> : Success, <b>true</b> : Fail
transaction	status	INT	Yes	Return code: <b>0</b> : refund failed <b>1</b> : successful refund
transaction	user_sender	STRING	Yes	Return the name of the sender of the refund
transaction	user_recipient	STRING	Yes	Return the name of the receiver of the refund
transaction	type	STRING	Yes	Return the transaction's type
transaction	amount	INT	Yes	Return the transaction's amount
transaction	currency	STRING	Yes	Return the transaction's currency
transaction	fees	INT	Yes	Return the transaction's fees
transaction	system	STRING	Yes	Return the transaction's system
transaction	date_time	INT	Yes	Return the transaction's time
status		STRING	Yes	Return a success or error message

Return Parameter Example for refund success:

```
{
  "error": false,
  "transaction": {
    "status": "1",
    "user_sender": "Rood Jhon",
    "user_recipient": "Olrache Rosier",
    "type": "Payment Refund",
    "amount": "200",
    "currency": "HTG",
    "fees": "0",
    "system": "ibous",
    "date_time": "1561768964"
  },
  "status": "Payment refund successfully"
}
```

Return Parameter Example for refund failed:

```
{
  "error": false,
  "transaction": {
    "status": "0"
  },
  "status": " Process failed"
}
```