

PAYMENT GATEWAY

APIs for integration

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1. OVERVIEW

This document describes the steps for technical integration process between merchant website / application and PayFair Payments.

Through PayFair Payments, your customers can make electronic payments through various payment modes such as:

- Credit cards
- Debit cards
- Net banking
- EMI
- Cash Cards/Wallets
- Mobile/web invoicing
- Integrated NEFT/RTGS
- Bank deposits
- Standing instruction on cards
- Customer account direct debit (e-NACH)
- UPI
- BharatQR

PayFair Payments also offers you a business UI (https://mrm.payfair.in) where you have access to all your prior transaction/payment details, settlement details, analytics, etc.

You can also use this UI to create invoices singly or in bulk, set reminders, recurring billing, and many more features, manage your payables, vendor payments, set split ratios for vendor payments, process refunds, etc. This online interface can be accessed through https://mrm.payfair.in

2. PAYMENT REQUEST API

When you integrate with PayFair Payments, the customer will be re-directed from your merchant website to the PayFair Payments payment page. After completion of the transaction, PayFair Payments will direct the customer back to the merchant website

2.1. Steps for Integration

 You need to submit a POST REQUEST to our server, at the below mentioned URL https://pay.payfair.in/v2/paymentrequest

Note: hash is a mandatory parameter. If your hash is not properly calculated or does not match for whatever reason, we will not be able to process the payment. The usage of hash is explained in subsequent sections.

When you call this API, the customer is necessarily re-directed to PayFair Pay payment page.
 After the customer makes the payment through PayFair Payments (entering his card details or netbanking details etc.), we direct the customer back to your merchant site.

Note: If you need the customer to enter credit card details on your (merchant) website and would NOT want us to redirect to the PayFair Payments page, we can get that done, provided you are PCI-DSS certified. If you are not certified and would like to get certified, let us know. We will guide you appropriately on how to get it done.

- We recommend that you check the hash at your end again, after we send back the response to you. This is essential to prevent user data tampering fraud.
- Transaction ID and order ID:
 - When you submit your transaction request to PayFair Payments, you need to submit an order ID as part of the request. This order ID can be used by you as a universal reference number for all transaction requests submitted by you.
 - When your customer clicks the "Pay" button on the payment page, a unique transaction ID is assigned to the transaction.
 - Order ID acts as a "merchant reference number". You must maintain uniqueness of your order IDs.

2.2. Parameters to be POSTed in Payment Request

URL: https://pay.payfair.in/v2/paymentrequest

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your	varchar(36)	mandatory
	business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.		
order_id	This is your (merchant) reference number. It must be unique for every transaction. We do perform a validation at our end and do not allow duplicate order_ids for the same merchant.	varchar(30)	Mandatory
Mode	This is the payment mode (TEST or LIVE are valid values)	varchar(4)	Optional
Amount	This is the payment amount.	decimal(12,2)	Mandatory
Currency	This is the 3-digit currency code (INR)	varchar(3)	mandatory
Description	Brief description of product or service that the customer is being charged for.	varchar(255)	mandatory
Name	Name of customer.	varchar(255)	mandatory
Email	Customer email address.	varchar(255)	mandatory
Phone	Customer phone number	varchar(30)	mandatory
address_line_1	Customer address	varchar(255)	optional
address_line_2	Customer address 2	varchar(255)	optional
City	Customer city	varchar(255)	mandatory
State	Customer State	varchar(255)	optional
Country	Customer country	varchar(100)	mandatory
zip_code	Customer zip code	varchar(20)	mandatory
timeout_duration	Timeout duration (in seconds)	varchar(10)	optional
udf1	User defined field	varchar(255)	optional
udf2	User defined field 2	varchar(255)	optional
udf3	User defined field 3	varchar(255)	optional
udf4	User defined field 4	varchar(255)	optional
udf5	User defined field 5	varchar(255)	optional
return_url	Return URL success - PayFair Payments will make a POST request to this URL after successful transaction, with a set of parameters, which you can process as you want to.	varchar(255)	mandatory
return_url_failure	Return URL failure - PayFair Payments will make a POST request to this URL after a FAILED transaction, with a set of parameters, which you can process as you want to.	varchar(255)	optional

return_url_cancel	Return URL success - PayFair Payments will make a POST request to this URL in case of transaction cancellation, with a set of parameters, which you can process as you want to.	varchar(255)	optional
percent_tdr_by_user	Percent of tdr amount paid by user (optional) (max value:100)	decimal(5,2)	optional
flatfee_tdr_by_user	fixed fee paid by user (optional)	decimal(10,2)	optional
show_convenience_fee	Controls whether the convenience fee amount (for surcharge merchants) is displayed to the customer (on the payment page) or not	varchar(1)	optional
split_enforce_strict	Controls whether payment is required to be split before settlement. By default, it is set to 'n', If this is set to 'y' then settlement will be on HOLD until splitsettlement api is called to provide split information.	varchar(1)	optional
split_info	Split info is for splitting the payment between vendor and themselves. In this field one must provide vendor code and what percentage of the payment to be split. (Note: Currently this accepts single vendor split amount percentage only) Following is an example how it will look {"vendors":[{"vendor_code":"2VEN449","split_amount_percentage":"20"}]} All field in this JSON are mandatory.	varchar(500)	optional
payment_options	payment options to be displayed such credit card (cc), net banking (nb), wallet (w). Tabs will be displayed by order in which values are sent. Values accepted are: CC,NB,W,ATM,UPI,EMI,BQR,PM,EP,WA,PL,CLEMI (comma separated string), sequence of values will also determine the tab sequence on payment page. 'CC': 'credit/debit card', 'NB': 'netbanking', 'W': 'wallet', 'UPI': 'upi', 'EMI': 'emi', 'BQR': 'bharat-qr', 'PM': 'paymate', 'EP': 'eazypay', 'WA': 'whatsapp', 'PL': 'paylater', 'CLEMI': 'cardless emi'	varchar(50)	optional
payment_page_display_ text	This text will be displayed below the logo on payment page.	varchar(100)	optional
allowed_bank_codes	Bank codes sent in this filed will be allowed in payment page, other bank codes will not be allowed to proceed with payment. Refer appendix 3 for the list of bank codes. To send multiple bank codes send a comma separated list. E.g. to allow only credit cards: MACC, VICC, DINC, VISC, RUPC, MASC, AMXC	varchar(250)	optional 6

allowed_emi_tenure	This will be a comma separated integer list depending upon the tenure (in months) of loan allowed to show in EMI payment method. Ex(3, 6, 9 etc.)	varchar(50)	optional
allowed_bins	BIN is Bank Identification Number, on a card it is first 6 digits. BINs passed here will only be allowed to transact, multiple BINs can be sent as comma separated list. Refer appendix 3 for the list if the payment mode is card	varchar(250)	optional
offer_code	If there is any discount / offer provided by merchant on EMIs, then predefined codes must be mentioned in this field. (This is for specific use case; more information can be provided on demand)	varchar(100)	optional
emi_info	This is an optional param which is to be posted to issuer end in case emi detail are required.the format will be as mentioned below "emi_info": { "subvention": "0.0",	varchar(100)	optional
	"aggregator_name": "BENOW", "bank_merchant_id": null, "bank_term_id": null, "bank_sku_code": null } all the fields are optional and have varchar as data type.		
product_details	Contains information regarding the goods/product for which the payment (emi) is being made. Values in this field should be sent in JSON format, for example: {"manufacturer": "Samsung", "category": "Phone", "sub_category_1": "Smart Phone", "sub_category_2": "Highend", "model_name": "Samsung Galaxy S10 Pro"} Felds such as manufacturer, category, model_name are self-explanatory; sub_category_1 and sub_category_2 further describe the variants/types of that product. All fields in this JSON are optional.	varchar(2048)	optional
enable_auto_refund	Payment request is auto refunded in case of delay success depending upon the value present in the field is 'y' or 'n'. If this filed is not sent default set for your account at the time of setup will take effect.	varchar(1)	optional
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package	varchar(255)	mandatory

2.3. Response Parameters returned

Parameter name	Description
transaction_id	A unique ID that can be used to trace the transaction uniquely within PayFair Payments. Transaction IDs are alphanumeric. An example transaction ID is HDVISC1299876438
payment_mode	This tells the payment mode used by customer - example: "credit card", "debit card", "netbanking", etc.
payment_channel	This tells the payment channel used by customer - example: "Visa", "HDFC Bank", "Paytm", etc.
payment_datetime	Date and Time of this payment in "DD-MM-YYYY HH:MM:SS" format

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response_code	Status of the transaction (return code). 0 signifies successful transaction. Non-zero values signify error. Response Code returned is documented in Appendix 4
response_message	The response message associated with the transaction.
error_desc	The detailed error description, if any
order_id	The same order_id that was originally posted by the merchant in the request.
amount	The same original amount that was sent by the merchant in the transaction
	request. In case of customer surcharge model this will be the amount paid by customer **.
currency	This is the 3digit currency code (INR), it will be same value that was originally sent by merchant.
description	The same description that was originally sent by the merchant in the transaction request.
name	The same value that was originally sent by merchant
email	The same value that was originally sent by merchant
phone	The same value that was originally sent by merchant
address_line_1	The same value that was originally sent by merchant
address_line_2	The same value that was originally sent by merchant
city	The same value that was originally sent by merchant
state	The same value that was originally sent by merchant
country	The same value that was originally sent by merchant
zip_code	The same value that was originally sent by merchant
udf1	The same value that was originally sent by merchant
udf2	The same value that was originally sent by merchant
udf3	The same value that was originally sent by merchant
udf4	The same value that was originally sent by merchant
udf5	The same value that was originally sent by merchant
tdr_amount	This is the TDR charged on the transaction **
tax_on_tdr_amount	This is the Tax (GST) charged on the TDR Amount **
amount_orig	This is the amount requested by merchant **.
	Typically, this will be same as the amount field, but in case of customer surcharge model this will be a different value.
cardmasked	Masked card number which was used to make the transaction **. For example, 437748*****0069
'emi_tenure'	If "send_emi_details" merchant param is enabled and emi_info request is received.
'emi_rate_of_interest	If "send_emi_details" merchant param is enabled and emi_info request is received.
hash	PayFair Payments calculates the hash using the same algorithm which was outlined earlier. Hence, the merchant needs to check whether this returned hash
	matches the calculated hash.

^{**} Note: This parameter will be returned as part of the response **only** if the merchant's account has been enabled for the same. Please speak to your PayFair Payments relationship manager if you would like this information to be returned in response.

Note: It is important to validate the hash after you receive the response from PayFair Payments. A failed response sent from PayFair Payments server to your server via browser could be tampered by

malicious end-user and turned into "success". To make sure the transaction response is the same as what PayFair Payments server sent please check the hash before considering the transaction response as final.

Note: Format of transaction ID is as follows: HDVISC1299876438". The 3rd to 6th digits (both inclusive) in the transaction ID signify the "bankcode". This information is enough to obtain the payment method and payment channel. A list of bankcodes and corresponding payment mode/channel is available in Appendix 3 of this document.

3. GET PAYMENT REQUEST URL (Two Step Integration)

PayFair Payments provides an API which returns a unique payment page URL on your merchant server in response which can be used in any browser to show the payment selection page and complete the transaction. This process gets complete in two steps.

3.1 Steps for Integration

 First step is, you need to submit a POST REQUEST to API URL https://pay.payfair.in/v2/getpaymentrequesturl

Note: hash is a mandatory parameter. If your hash is not properly calculated or does not match for whatever reason, we will not be able to process the payment. The usage of hash is explained in subsequent sections.

• In response you will get a payment execution URL. Following is the sample response message in case of success.

```
{
    "data": {
    "url": "https://pay.payfair.in/v2/executepaymentrequesturl/3c1943aa-13be-4866-925e-
d56c32c62d47",
    "uuid": "3c1943aa-13be-4866-925e-d56c32c62d47",
    "expiry_datetime": "2019-06-14 16:38:36",
    "order_id": "T103"
    }
}
```

- The response message apart from payment URL will contain a UUID (unique identification number for this transaction request), expiry date/time (this url will not work after the given expiry date/time) and order id (the one sent in the request by merchant). For every get payment URL request a unique UUID is generated in response.
- Second step is after getting the URL, open it in any browser or app WebView for showing the payment method selection page to customer to complete the payment.

It is best to use this API if payments are going to be done through mobile apps for preventing frauds or hash / data tampering. The request can be built on your server and the unique URL can be sent to Client app, from where the payment process would continue.

3.2 Parameters to be posted in request

URL: https://pay.payfair.in/v2/getpaymentrequesturl

Parameters to be posted for this API are exactly that same as in v2/paymentrequest API (see Section 2.2), except for one additional optional parameter for defining the url expiry in minutes

Parameter Name	Description	Data type	Optional / Mandatory
expiry_in_minutes	This field is to define the response url expiry in minutes. This field excepts integer value minimum of 15 (15 minutes) and maximum of 10080 (7 days)	varchar(10)	Optional

3.3 Successful Response Parameters returned

Parameter Name	Description
url	Payment URL, which can open in any browser
expiry_datetime	The Payment URL expiration time, by default set for 15 mins
Uuid	Unique ID generated for every request
order_id	This is your (merchant) reference number which you submitted while making the original transaction.

4. PAYMENT STATUS API

PayFair Payments provides an API which you can use to check the status of any prior transaction. You can use this to reconcile transactions. We strongly recommend that you make it a practice to use this for every transaction that was made. This serves two purposes:

- The response might not reach you due to network issues or other problems such as user clicking refresh button on their browser, etc.
- This also protects against any tampering, since you have a second fallback check here.

PayFair Payments offers a sophisticated API wherein you can apply "filters" on the resultset you want to retrieve. You can search our system by the transaction ID, or the order ID, or even by parameters such as date range, customer phone number, etc. You can also pass in various combinations of these parameters to get the resultset of your choice.

Note: Your designated server IP will need to be whitelisted by PayFair Payments for this API to work. If you receive errors such as "Unauthorized" while accessing this API, please contact your PayFair Payments relationship manager to get this fixed.

URL: https://pay.payfair.in/v2/paymentstatus

4.1. Parameters to be POSTed

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	Mandatory
order_id	This is your (merchant) reference number which you submitted while making the original transaction. You can send multiple order ids in this field as comma (,) separated list	varchar(30)	Optional
transaction_id	This is the transaction ID generated by PayFair Payments for the given transaction	varchar(30)	Optional
bank_code	This is the 4-letter bankcode which denotes the payment mode/channel of the payment.	varchar(4)	Optional
response_code	The numeric response code returned by PayFair Payments during the original transaction	number(4)	Optional

customer_phone	Phone number of the customer, as provided during the original paymentrequest API	varchar(30)	Optional
customer_email	Email address of the customer, as provided during the original paymentrequest API	varchar(255)	Optional
customer_name	Name of the customer, as provided during the original paymentrequest API	varchar(255)	Optional
date_from	Start date of date range to retrieve transactions, in DD-MM-YYYY or YYYY-MM-DD HH:MM:SS format	varchar(20)	Optional
date_to	End date of date range to retrieve transactions, in DD-MM-YYYY or YYYY-MM-DD HH:MM:SS format	varchar(20)	Optional
page_number	Page number you need to retrieve, its value is limited by information received in the first response that is received	integer	Optional
per_page	Number to records need to see per page, this value should be between 1 and 50	integer	Optional
Hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2.	varchar(255)	Mandatory
	Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package		

4.2. Response Parameters

On successful call to this API you will receive JSON response. You can read the JSON response and process it at your end. If your result set is greater than 50 transactions, you would need to use pagination.

Note: few parameters in response will be visible only if it is enabled for your account, for example: refund_details will be available if it is enabled for your merchant account.

A few sample responses for given requests are provided below:

In case of success,

```
{
    "data": [
        {
            "transaction_id": "SFSBIN2783912661",
```

```
"bank code": "SBIN",
  "payment mode": "Netbanking",
  "payment_channel": "State Bank of India",
  "payment_datetime": "2018-06-13 16:44:03",
  "response code": 1000,
  "response_message": "FAILED",
  "authorization staus": null,
  "order id": "427641",
  "amount": "27.36",
  "amount orig": "2.00",
  "tdr amount": 21.49,
  "tax_on_tdr_amount": 3.87,
  "description": "Web Payment for 433487",
  "error_desc": "FAILED",
  "customer_phone": "9900990099",
  "customer name": "sharathkumar hegde",
  "customer_email": "sharathkumar@example.com"
  "currency": "INR",
  "cardmasked": null,
  "udf1": null,
  "udf2": null,
  "udf3": null,
  "udf4": null,
  "udf5": null,
  "refund_details": {
    "refund_amount": 0
},
  "transaction_id": "HDVISC4291974106",
  "bank_code": "VISC",
  "payment_mode": "Credit Card",
  "payment_channel": "Visa",
  "payment_datetime": "2018-06-13 16:45:39",
  "response_code": 0,
  "response_message": "SUCCESS",
  "authorization_staus": "captured",
  "order_id": "427643",
  "amount": "1.93",
  "amount_orig": "1.90",
  "tdr_amount": 0.03,
  "tax_on_tdr_amount": 0,
```

```
"description": "Web Payment for 433489",
      "error desc": null,
      "customer_phone": "9900990099",
      "customer_name": "sharathkumar hegde",
      "customer email": "sharathkumar@example.com"
      "currency": "INR",
      "cardmasked": null,
      "udf1": null,
      "udf2": null,
      "udf3": null,
      "udf4": null,
      "udf5": null,
      "refund_details": {
        "refund_amount": 0
    }
  "page": {
    "total": 175,
    "per_page": 10,
    "current_page": 1,
    "last_page": 18,
    "from": 1,
    "to": 10
 },
  "hash":
"30FAAD865191B4064576F063177F0A4692C3DBBBF35D1A20463EAA449269C4715FD13528EA069B3A8
D5C25C62637ED825C297C2337CDC1CFB7FCD0D60DCFEB9D"
In case of error,
 "error": {
  "code": 1001,
  "message": "The api key field is incorrect"
```

In case there is no record present in our system for the combination of input, following error is returned

```
{
  "error": {
     "code": 1050,
     "message": "No data record found for the given input"
  }
}
```

In case there is no transaction id in our system for the order_id, merchant_order_id or transaction_id, following error is returned

```
{
    "error": {
        "code": 1028,
        "message": "No Transaction found"
    }
}
```

If there are more than 50 transactions for which the status is requested, you would see following error

```
{
    "error": {
        "code": 1086,
        "message": "More than 50 records, refine your search criteria or use pagination"
    }
}
```

In such cases where result set is expected to have status of more than 50 transactions, it is required to use pagination.

Pagination allows to access data in smaller chunks making it easier for server to return data quickly.

To allow for pagination one need to pass following additional parameter in request

Parameter Name	Description	Data type	Optional / Mandatory
page_number	Page number you need to retrieve, its value is limited by information received in the first response that is received	integer	optional
per_page	Number to records need to see per page, this value should be between 1 and 50	integer	optional

If above parameters are passed, response will have additional information about pagination as following

```
"page": {
    "total": 175,
    "per_page": 10,
```

```
"current_page": 1,
"last_page": 18,
"from": 1,
"to": 10
},
```

This pagination information should be used in page_number filed for subsequent api request.

5. Refunds API

PayFair Payments provides a refund API which merchants can use to programmatically issue refunds instead of clicking the "refund" button in the PayFair Payments UI. This API can be invoked on any prior successful transaction. The transaction which is being refunded should be in either "paid" or "settled" state, or in "refunded" state (in case of partial amount refunds). Refunds can be either for the full amount paid by the customer, or any part of it.

The API needs a valid transaction ID as input.

Note: processing of refunds is subject to availability of funds in subsequent settlement cycles. This API will return a failure response in case sufficient funds are not available to process the refund.

5.1. Refund request API

URL: https://pay.payfair.in/v2/refundrequest

Request Parameters:

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36- digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	Mandatory
transaction_id	The unique alphanumeric transaction ID generated by PayFair Payments for a prior transaction.	varchar(30)	Mandatory
merchant_refund_id	This is your (merchant) refund reference number. It must be unique for every refund request. If a refund request is sent with same merchant_refund_id we return the response of the previously successful refund request. Warning: If you are N OT using this filed then be careful, as each request will be treated as a new refund request. Thus it is recommended to use this field.	varchar(30)	Optional
merchant_order_id	This is your (merchant) reference number which you submitted while	varchar(30)	Optional

	making the original transaction. Note that if this value does not match with related transaction_id field then you will get error. In typical cases do not send this field.		
amount	The amount which needs to be refunded. This needs to be less than or equal to the transaction amount.	decimal(10,2)	Mandatory
description	Description of the refund. Usually the reason for issuing refund, as specified by merchant.	varchar(500)	Mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package	varchar(255)	Mandatory

Response Parameters:

The output is a JSON which contains the error(s), if any, in validation, or a simple success message which confirms that the refund request has been accepted and will be processed during subsequent settlement cycle.

If the request is successfully processed response you will get a "data" block, and in case of failure you will see "error" block, you will not get "data" key in case of error.

In case of success, **NOTE**: that *refund_reference_no* is returned by the bank and it can be null in case refunds are not initiate by bank immediately, but is done at end of the day.

```
{
  "data": {
  "transaction_id": "HDVISC7472820193",
  "refund_id": 4351,
  "refund_reference_no": null
  "merchant_refund_id": 76783_R_1,
  "merchant_order_id": 76783,
```

```
}

In case of error,

{
    "error": {
        "code": 1039,
        "message": "The refund amount is greater than transaction amount"
    }
}
```

5.2. Refund Status API

If a refund is initiated either from merchant or payment gateway end and merchant wants to check its status (details such as if it is refunded or not how much amount was paid and how much is refunded will be posted in response). To check the status of any refund which was initiated merchant should post the API request.

URL: https://pay.payfair.in/v2/refundstatus

Request Parameters:

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36- digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	Mandatory
transaction_id	The unique alphanumeric transaction ID generated by PayFair Payments for a prior transaction.	varchar(30)	Mandatory

merchant_order_id	This is your (merchant) reference number which you submitted while making the original transaction. Note that if this value does not match with related transaction_id field then you will get error. In typical cases do not send this field.	varchar(30)	Optional
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2.	varchar(255)	Mandatory
	Note: the SALT will be provided by PayFair Payments separately. NEVER		
	PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP		
	Package		

Response Parameters:

The output is a JSON it will give all details about a refund if any initiated for this transaction, if not it will give json with error. Partial multiple refunds are also shown in refund_details

If the request is successfully processed response you will get a "data" block, and in case of failure you will see "error" block, you will not get "data" key in case of error.

NOTE: that *refund_reference_no* is returned by the bank and it can be null in case refunds are not initiate by bank immediately but is done at end of the day.

```
"data": {

"transaction_id": "FDAXIP9740656834",

"merchant_order_id": "351177",

"refund_amount": 2.04,

"transaction_amount": "2.04",

"refund_details": [

{

    "refund_id": 3523,

    "refund_reference_no": "602201803257434370",

    "merchant_refund_id": null,

    "refund_amount": "2.04",

    "refund_status": "Customer Refunded",
```

```
"date": "2018-02-01 11:19:49"

}

},

"hash":

"20D8CB42D14C35AAEF06BB200C82E560DCC1D0C19EEFFBFD07CBEEB3BD39AE746AFB30A5803D6375
27CE1A45AE367565E8AF5933809E3F597D7CDDDCDB3C28FE"
}
In case of error,

{
    "error": {
        "code": 1050,
        "message": "No data record found for the given input"
    }
}
```

6. SPLIT API

6.1. Split Settlement API

6.1.1. Split transaction before settlement API

URL: https://pay.payfair.in/v2/splitsettlementrequest

Request Parameters:

Parameter Name	Description	Data type	Optional / Mandatory
api_key	The unique key provided to the merchant	varchar(36)	Mandatory
order_id	The order id of the transaction		Mandatory
split_info	The json format data can contain vendor_code and vendor_percent or vendor_code and vendor_amount, see the json structure below.	json	Mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2.	varchar(255)	Mandatory
	Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package		
	hash = strtoupper(hash('sha512', salt api_key order_id split_info))		

The split_info parameter will be in json format as shown below:

```
]
```

Response Parameters:

The response will be in json format as show below:

7. VENDOR API

7.1. Add Vendor API

URL: https://pay.payfair.in/v2/addvendor

This API allows the merchant to register new vendors with the PayFair Payments system. These vendors can also be added manually from the PayFair Payments dashboard.

When a vendor is added, it is "non-approved" by default. PayFair Payments will approve the vendors separately. This is for security purposes.

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
vendor_code	This is the vendor code that you wish to add in the PayFair Payments system. This has to be unique. Alphanumeric values are permitted here.	varchar(30)	mandatory
vendor_name	A descriptive name to identify the vendor.	varchar(100)	mandatory
vendor_contact_email	Email address where the vendor can be contacted. Has to be a valid email address.	varchar(200)	mandatory
vendor_contact_num	Phone number where the vendor can be contacted.	varchar(10)	mandatory
vendor_contact_address	Address where the vendor can be reached.	varchar(300)	optional
account_name	Account holder name (of the vendor bank account). Optional if UPI details are given.	varchar(300)	optional
account_number	Account number of the vendor. Optional if UPI details are given.	varchar(50)	optional
ifsc_code	IFSC code of the vendor's bank. Optional if UPI details are given.	varchar(50)	optional
bank_name	Bank name of the vendor's bank. Optional if UPI details are given.	varchar(200)	optional
bank_branch	Bank branch of the vendor's bank. Optional if UPI details are given.	varchar(300)	optional
upi_id	UPI VPA of the vendor. Optional if bank account details are given.	varchar(50)	optional
vendor_pan	PAN number of the vendor	varchar(10)	optional
description_1	Vendor description 1	varchar(200)	optional
description_2	Vendor description 2	varchar(200)	optional

activate_bharat_qr	Pass 'y' in case bharat qr needs to be generated for this vendor	varchar(1)	optional
aadhar_number	Aadhar number is required if bharat qr needs to be generated	varchar(12)	optional
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2.	varchar(200)	mandatory
	Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package		
	Please ensure that the concatenated string (upon which the hash will be computed) is computed based on columns in alphabetical order. Please include only those columns in your hash calculation which you are actually passing to us. For example, if you are not passing vendor_contact_address do not include that in hash calculation.		

Note: This API will return error if the vendor already exists in the system AND is active. If an inactive/disapproved vendor exists, this API will update the details for that vendor code.

```
The response will be in json format as show below:
```

```
In case of success,
```

```
"data": {
    "code":"SUCCESS",
        "account_id":0026,
        "message": "Vendor is added Successfully"
        "static_qr_code": "0002010102110216407758000003774806
1661004600000385150821hdfc000000162713126410010A0000005240116yap94026@equitas02031.027230010A00000052401059402628300010A00000052401121234123
412345204739953033565802IN5907abc
pay6032bangalore610656000162120708940260012314D41"
    }
}
In case vendor already exists
{
    "error": {
        "code": 1024,
```

```
"message": "Vendor code already exists"
}
```

7.2. Modify Vendor API

URL: https://pay.payfair.in/v2/modifyvendor

Pre-existing vendors in the system can be modified using this API. This API works on approved as well as non-approved vendors. However, any modification to a pre-existing active vendor will immediately disapprove that vendor, automatically. If the vendor that is being modified does not exist, the API will return an error and will NOT automatically add the vendor. This will change the default account for the vendor

Parameter Name	Description	Data type	Optional/ Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
vendor_code	This is the vendor code that you wish to modify in the PayFair Payments system. This value must already exist in the system, failing which PayFair Payments will return an error.	varchar(30)	mandatory
vendor_name	A descriptive name to identify the vendor.	varchar(100)	optional
vendor_contact_email	Email address where the vendor can be contacted. Has to be a valid email address.	varchar(200)	optional
vendor_contact_num	Phone number where the vendor can be contacted.	varchar(10)	optional
vendor_contact_address	Address where the vendor can be reached. Optional.	varchar(300)	optional
account_id	Account id which needs to be modified. The account_id is returned in the addvendor API. If it is not passed, the last approved account of the vendor is updated	varchar(10)	optional
account_name	Account holder name (of the vendor bank account). Optional if UPI details are given.	varchar(300)	optional
account_number	Account number of the vendor. Optional if UPI details are given.	varchar(50)	optional
ifsc_code	IFSC code of the vendor's bank. Optional if UPI details are given.	varchar(50)	optional
bank_name	Bank name of the vendor's bank. Optional if UPI details are given.	varchar(200)	optional

bank_branch	Bank branch of the vendor's bank. Optional	varchar(300)	optional
	if UPI details are given.		
upi_id	UPI VPA of the vendor. Optional if bank	varchar(50)	optional
	account details are given		
vendor_pan	PAN number of the vendor	varchar(10)	optional
description_1	Vendor description 1	varchar(200)	optional
description_2	Vendor description 2	varchar(200)	optional
activate_bharat_qr	Pass 'y' in case bharat qr needs to be generated for this vendor	varchar(1)	optional
aadhar_number	Aadhar number is required if bharat qr needs to be generated	varchar(12)	optional
	You need to compute a hash of all your		
hash	parameters and pass that hash to PayFair	varchar(200)	mandatory
	Payments, for details about calculating hash		
	refer Appendix 2.		
	Note: the SALT will be provided by PayFair		
	Payments separately. NEVER PASS SALT IN A		
	FORM, DO NOT STORE SALT IN ANDROID		
	APP APK or IPHONE APP package		
	Please ensure that the concatenated string		
	(upon which the hash will be computed) is		
	computed based on columns in alphabetical		
	order. Please include only those columns in		
	your hash calculation which you are actually		
	passing to us. For example, if you are not		
	passing vendor contact address do not		
	include that in hash calculation.		

The response will be in json format as show below: In case of success,

```
{
    "data": {
        "code":"SUCCESS",
        "message": " Vendor Details Updated Successfully"
    }
}
```

7.3. Add Vendor Accounts API

URL: https://pay.payfair.in/v2/addvendoraccount

Multiple accounts can be added to pre-existing vendors in the system using this API. This API works on approved as well as non-approved vendors. If the vendor that is being given does not exist, the API will return an error and will NOT automatically add details to the vendor.

Parameter Name	Description	Data type	Optional/ Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
vendor_code	This is the vendor code that you wish to modify in the PayFair Payments system. This value must already exist in the system, failing which PayFair Payments will return an error	varchar(30)	mandatory
account_name	Account holder name (of the vendor bank account). Optional if UPI details are given.	varchar(300)	optional
account_number	Account number of the vendor. Optional if UPI details are given.	varchar(50)	optional
ifsc_code	IFSC code of the vendor's bank. Optional if UPI details are given.	varchar(50)	optional
bank_name	Bank name of the vendor's bank. Optional if UPI details are given.	varchar(200)	optional
bank_branch	Bank branch of the vendor's bank. Optional if UPI details are given.	varchar(300)	optional
upi_id	UPI VPA of the vendor. Optional if bank account details are given	varchar(50)	optional
default_account	Whether this will be the default account of the vendor or not. Possible values are "y" or "n". IMPORTANT: System can have only one default account, if the value is passed as 'y' and default account exist, error will be Displayed	varchar(1)	mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2.	varchar(200)	mandatory
	Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package		
	Please ensure that the concatenated string (upon which the hash will be computed) is computed based on columns in alphabetical order. Please include only those columns in your hash calculation which you are actually passing to us. For example, if you are not		

passing vendor_contact_address do not	
include that in hash calculation.	

The response will be in json format as show below: In case of success,

```
{
    "data": {
        "code":"SUCCESS",
        "account_id":"12313",
        "message": " Vendor account is added Successfully"
    }
}
```

7.4. Delete Vendor API

URL: https://pay.payfair.in/v2/deletevendor

This API can be used to delete a pre-existing vendor from the PayFair Payments system. Subsequent to deletion, there can be no further split payments to this vendor. Importantly, deletion of a vendor will NOT impact pending payouts to the vendor. Any pending settlements will still occur

Parameter Name	Description	Data type	Optional/ Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
vendor_code	This is the vendor code that you wish to delete from the PayFair Payments system. This value must already exist in the system, failing which PayFair Payments will return an error.	varchar(30)	mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package hash = toUpper (sha512 (SALT api_key vendor_code))	varchar(255)	mandatory

This API can be used to delete a pre-existing vendor from the PayFair Payments system. Subsequent to deletion, there can be no further split payments to this vendor. Importantly, deletion of a vendor will NOT impact pending payouts to the vendor. Any pending settlements will still occur The response will be in json format as show below:

In case of success,

```
{
    "data": {
        "code":"SUCCESS",
        "message": " Vendor is deleted Successfully"
    }
}
```

7.5. Get Vendor API

URL: https://pay.payfair.in/v2/vendorstatus

This API can be used to delete a pre-existing vendor from the PayFair Payments system.

Parameter Name	Description	Data type	Optional/ Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
vendor_code	This is the vendor code that you wish to retrieve from the PayFair Payments system. This value must already exist in the system, failing which PayFair Payments will return an error.	varchar(30)	mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package hash = toUpper (sha512 (SALT api_key vendor_code))	varchar(255)	mandatory

This API can be used to get details of a pre-existing vendor from the PayFair Payments system.

The response will be in json format as show below:

In case of success,

```
"data": {
        "vendor code": "5d1ee6743a3asd2d476a669b",
        "vendor name": "Sindhu",
        "vendor contact email": "sharathkumar@example.com",
        "vendor_contact_num": "9900990099",
        "vendor contact address": "Domlur, Indira Nagar, Bangalore",
        "vendor_pan": "ARSPH1234Q",
        "vendor_approved": "y",
        "vendor_split_percentage": null,
        "vendor split amount": null,
        "earliest settlement time frame": null,
        "latest settlement time frame": null,
        "vendor logo": null,
        "qr code":
"
AB1BMVEX///8AAABVwtN+AAAAAXRST1MAQObYZqAAAA1wSF1zAAAOxAAADsQB1SsOGwAA...
.....vRou3ed6h+OmH3Ch8fMD+wfnU1Eyj4zFVQAAAABJRU5ErkJggg==",
        "bank accounts": [
                 "account id": 3288,
                 "account name": "Dummy",
                 "account number": "100000001",
                "ifsc code": "UTIB0000003",
                "bank name": "Dummy Bank",
                 "bank branch": "Demo Road",
                 "upi id": null,
                 "bank approved": "y",
                "default account": "y"
       ]
  }
}
```

8. SETTLEMENT APIS

8.1. Get Settlements API

URL: https://pay.payfair.in/v2/getsettlements

This API allows a merchant to programmatically access the status of any of his past settlements and other pertinent information pertaining to a prior settlement. If this API returns a blank bank_reference_number, it means the amount is not yet settled. If the API returns no data, it means that the system has not calculated settlements yet, you would need to re-check after 12:30 AM.

Please note that this API will not provide any information for failed transactions since, there can be no settlement for a failed transaction. To obtain information about failed transactions, use the payment status API described in an earlier section.

8.1.1. Parameters to be POSTed in Request

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	Mandatory
bank_reference	The bank reference number of the actual NEFT/IMPS/RTGS transaction performed by PayFair Payments to the merchant's current account	varchar(100)	Optional
date_from	The start date from which you need to retrieve settlement information. This needs to be passed in DD-MM-YYYY format.	varchar(10)	Optional
date_to	The end date at which you need to retrieve settlement information. This needs to be passed in DD-MM-YYYY format.	varchar(10)	Optional
completed	Whether settlement is completed or not. Pass in 'y' or 'n' here.	varchar(1)	Optional
settlement_id	The unique numeric settlement ID assigned to each Settlement	number(20)	Optional
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package.	varchar(255)	Mandatory

```
This API returns a JSON in the following format:
  "data": [
      "settlement_id": 10075,
      "bank reference": "710061536126",
      "payout_amount": "2.06",
      "completed": "y",
      "account_name": "Tester Sharma",
      "account_number": "50100012341231",
      "ifsc code": "HDFC0000002",
      "bank_name": "HDFC BANK",
      "bank branch": "CMH RD, INDIRA NAGAR BRANCH",
      "settlement datetime": "2017-02-20 16:31:28",
      "sale_amount": "3.00",
      "chargeback amount": "0.00",
      "refund_amount": "0.00"
  ],
  "hash":
"684CDA22F7A429D68281444A8F6809A5FEFEA7A055258984E129554AC359C956E58E36B67A4EB9F948
1E616888E722DDB95A81EFBED4416B24F19E3126077F5E"
```

In case there is no record found in the system for the combination of input parameter, following error is returned

```
{
    "error": {
        "code": 404,
        "message": "No record found"
    }
}
```

8.2. Get Settlement Details API

URL: https://pay.payfair.in/v2/getsettlementdetails

This API allows a merchant to programmatically access the status of any of his past **settlement details** (transaction level settlements).

Please note that this API will not provide any information for failed transactions since by definition, there can be no settlement for a failed transaction. To obtain information about failed transactions, use the payment status API described in an earlier section.

8.2.1. Parameters to be POSTed in Request

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
order_id	Order ID passed by the merchant during the original payment transaction request	varchar(30)	optional
transaction_id	Transaction ID assigned by PayFair Payments for this successful transaction	varchar(30)	optional
bank_code	Bank code signifying payment mode and channel	varchar(4)	optional
customer_phone	Phone number of customers as provided during the original paymentrequest API call	varchar(30)	optional
customer_email	Email ID of customer as provided during the original paymentrequest API call	varchar(255)	optional
customer_name	Name of customer as provided during the original paymentrequest API call	varchar(255)	optional
date_from	The start date from which you need to retrieve settlement detail information. This needs to be passed in DD-MM-YYYY format.	varchar(10)	optional
date_to	The end date at which you need to retrieve settlement detail information. This needs to be passed in DD-MM-YYYY format.	varchar(10)	optional
completed	Whether settlement is completed or not. Pass in 'y' or 'n' here.	varchar(1)	optional
settlement_id	The unique numeric settlement ID assigned to each Settlement	number(20)	optional
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2.	varchar(255)	mandatory
	Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package.		

This API returns a JSON in the following format:

```
{
    "data": [
```

```
"transaction id": "HDMASC2746901262",
      "order_id": "225495",
      "settlement id": 27837,
      "bank reference": "710061536126",
      "settlement_datetime": null,
      "customer name": "Tester",
      "customer_email": "tester@example.com",
      "customer phone": "8050603774",
      "completed": "y",
      "description": "Settlement for Rs. 2.06 paid through transaction ID HDMASC2746901262 on 2017-
09-28 13:36:19 for merchant hotel booking",
      "gross_transaction_amount": "2.06",
      "payment_mode": "Credit Card",
      "payment channel": "Master",
      "applicable_tdr_percent": "3.00",
      "applicable_tdr_fixed_fee": "0.00",
      "percent_tdr_paid_by_merchant": "0",
      "tdr_amount": "0.06",
      "tax on tdr amount": "0.00",
      "amount_reimbursed": "2.00"
 "hash":
"D2EFF4776D973DA46563DA0F80139B84AFED77C58496A34DD0D653272A0EE1E5D09F4C94AD439451
2B16341A5A44906B4B10FF5B6AA1F03DE98A164B39881C4E"
```

In case there is no record found in the system for the combination of input parameter, following error is returned

```
{
    "error": {
        "code": 404,
        "message": "No record found"
    }
}
```

9. CHALLAN PAYMENT API

9.1. Request challan payment API

URL: https://pay.payfair.in/v1/requestchallan

This API allows the merchant to create a link which can be sent to customers by email and/or SMS. This link allows the customer to make easy payments without data entry hassles.

On clicking this link, the customer is taken directly to a confirmation page where he can verify his details (email ID, name and amount), and on confirmation, he is taken to the payment page.

Parameter Name	Description	Data type	Optional/ Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
name	Name of the person whom the invoice is addressed to.	varchar(100)	Mandatory
mobile	Phone number of the person whom the invoice is addressed to.	varchar(10)	mandatory
email	Email ID of the person whom the invoice is addressed to.	varchar(100)	mandatory
amount	Amount which the user needs to pay.	decimal(15,2)	mandatory
purpose	Purpose of payment - this should be a descriptive string which clearly tells the user what he is paying for.	varchar(100)	mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT	varchar(255)	mandatory
	STORE SALT IN ANDROID APP APK or IPHONE APP package.		

9.2. Request challan payment API url

URL: https://pay.payfair.in/v1/generatechallanurl

This API allows the merchant to create a url which can be sent to customers by email and/or SMS. This url allows the customer to make easy payments without data entry hassles.

On clicking above url, the customer is taken directly to a confirmation page where he can verify his details (email ID, name and amount), and on confirmation, he is taken to the payment page.

Request parameters are as following:

Parameter Name	Description	Data type	Optional/ Mandatory
api_key	PayFair Payments would assign a unique 36-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	mandatory
name	Name of the person whom the invoice is addressed to.	varchar(100)	Mandatory
mobile	Phone number of the person whom the invoice is addressed to.	varchar(10)	mandatory
email	Email ID of the person whom the invoice is addressed to.	varchar(100)	mandatory
amount	Amount which the user needs to pay.	decimal(15,2)	mandatory
purpose	Purpose of payment - this should be a descriptive string which clearly tells the user what he is paying for.	varchar(100)	mandatory
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, using the following mechanism: toUpper (sha512 (SALT amount api_key email mobile name purpose)) Note: the SALT will be provided by PayFair Payments separately. Please ensure that the concatenated string (upon which the hash will be computed) is in alphabetical order. Note: NEVER PASS SALT IN A FORM	varchar(255)	Mandatory

Response from this API will be in JSON format:

On successful call to this API you will receive JSON response in following format.

```
"data": {
    "url": "http://biz.localhost.com/challan/b39b0596-73c4-4b7e-b63d-
bbc13361e044",
    "uuid": "b39b0596-73c4-4b7e-b63d-bbc13361e044",
    "tnp_id": 81600
    }
}
```

data - successful response will have "data" tag.

url - this is the url what can be distributes as suitable.

uuid - this is the unique identifier for this request.

tnp_id - this is another unique identifier that can be used for getting the transaction details using paymentStatusById API.

```
On failure json response is as following:
```

```
{
  "error": {
    "code": 221,
    "message": "GEN-UNAUTHORIZED - The api key field is incorrect"
```

```
}
}
```

error - erred response will have "error" tag.

code - this is error category code

message - this is more descriptive error tag and error message.

List of error codes and corresponding messages:

Code	Message
221	GEN-UNAUTHORIZED
	The api key field is incorrect
	The hash key field is invalid
998	GEN-INVALID-PARAMS
	The name field is required.
	The email field is required.
	The mobile field is required.
	The amount field is required.
	The purpose field is required.
	The hash field is required.

10. Server to Server Call Back (Web hooks)

10.1. Server to server response on Payment

To get server to server response, add callback URL in parameter named "Payment Callback URL" in your PayFair Payments dashboard. If this is not found contact PayFair Payments to set this up for you.

Whenever there is a successful payment done by your customer apart from receiving success or failure message on customers' browser, following response parameters are also posted to the mentioned callback URL.

These are very same response that we send as response to paymentrequest API.

Parameter name	Description	
transaction_id	A unique ID that can be used to trace the transaction uniquely within	
	PayFair Payments. Transaction IDs are alphanumeric.	
payment_method	This tells the payment method used by customer - example: "credit card", "deb	
	card", "netbanking", etc.	
payment_datetime	Date and Time of this payment in "DD-MM-YYYY HH:MM:SS" format	
response_code	Status of the transaction (return code). 0 signifies successful transaction. Non-zero values signify error.	
response_message	Can have a value of "success" or "failure". Order	
order_id	The same order_id that was originally posted by the merchant in the request.	
amount	The same original amount that was sent by the merchant in the transaction request.	
currency	This is the 3digit currency code (INR), it will be same value that was originally sent by merchant.	
description	The same description that was originally sent by the merchant in the transaction request.	
name	The same value that was originally sent by merchant	
email	The same value that was originally sent by merchant	
phone	The same value that was originally sent by merchant	
address_line_1	The same value that was originally sent by merchant	
address_line_2	The same value that was originally sent by merchant	
city	The same value that was originally sent by merchant	
state	The same value that was originally sent by merchant	
country	The same value that was originally sent by merchant	
zip_code	The same value that was originally sent by merchant	
udf1	The same value that was originally sent by merchant	
udf2	The same value that was originally sent by merchant	
udf3	The same value that was originally sent by merchant	
udf4	The same value that was originally sent by merchant	
udf5	The same value that was originally sent by merchant	
hash	PayFair Payments calculates the hash using the same algorithm which was	
	outlined earlier. Hence, the merchant needs to check whether this returned hash matches the calculated hash.	

10.2. Server to server response on Settlement

To get server to server response, add callback URL in parameter named "Settlement Callback URL" in your PayFair Payments dashboard. If this is not found contact PayFair Payments to set this up for you.

Whenever there is a successful settlement done by PayFair Payments to your bank account apart from receiving success or failure email message, following response parameters are also posted to the mentioned callback URL.

These are very same response that we send as response to **getsettlements** API.

Parameter name	Description
settlement_id	Settlement Id for this aggregated settlement
bank_reference	Bank reference Number
payout_amount	Aggregated Amount paid to merchant
completed	Settlement is completed or not, 'y' or 'n'
account_name	Account Holders Name to which the Amount is settled
account_number	Account Number to which the Amount is settled
ifsc_code	IFSC Code of the branch to which Account Number belongs
bank_name	Bank name to which Account Number belongs
settlement_datetime	Date of settlement
sale_amount	Total sale amount for the transactions included in this aggregated settlement
chargeback_amount	Amount deducted from the sale amount for chargeback adjustment
refund_amount	Amount deducted from the sale amount for refunds adjustment.

11. SEAMLESS PAYMENT REQUEST API

In case you perform the normal payment integration process as outlined earlier in the document, the customer will necessarily be redirected to the PayFair Payments payment page wherein he will be required to enter his card details or select the appropriate bank/payment instrument (such as wallets etc.) with which he would like to make the payment.

If you would like your customer to perform the bank selection and/or enter his card information on your site, without using the PayFair Payments payment page, this can be achieved using the seamless payment request API. PayFair Payments would provide you a list of appropriate bankcodes which you would be required to pass along with the payment request. These bankcodes are available in Appendix 3 of this document.

Please note that in order to use our seamless payment request API you would need to be PCI-DSS compliant. For more information on PCI compliance, or if you would like us to assist you in your PCI compliance efforts, please contact your PayFair Payments relationship manager.

11.1. Steps for Integration

- You need to submit a POST REQUEST to our server, at the below mentioned URL URL https://pay.payfair.in/v2/paymentseamlessrequest `
- Note: hash is a mandatory parameter. If your hash is not properly calculated or does not match for whatever reason, we will not be able to process the payment. The usage of hash is explained in subsequent sections.
- When you submit your transaction request to PayFair Payments, we assign a transaction ID to you.
- The customer is automatically redirected to the appropriate bank or 3D-secure page, as the case may be.
- After the customer pays the entire amount using one or more payment instruments, he is redirected back to the merchant site.
- We recommend that you check the hash at your end again, after we send back the response to you. This is essential to prevent user data tampering fraud.

11.2. Parameters to be POSTed in Seamless Payment Request

URL: https://pay.payfair.in/v2/paymentseamlessrequest

Parameter Name	Description	Data type	Optional / Mandatory
api_key	PayFair Payments would assign a unique 40-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(36)	Mandatory
order_id	This is your (merchant) reference number. It must be unique for every transaction.	varchar(30)	Mandatory

mode	This is the payment mode (TEST or LIVE are valid values). Defaults to LIVE.	varchar(4)	Optional
amount	This is the payment amount.	decimal(15,2)	Mandatory
currency	This is the 3digit currency code (INR)	varchar(3)	Mandatory
description	Brief description of product or service that the customer is being charged for.	varchar(500)	Mandatory
name	Name of customer.	varchar(100)	Mandatory
email	Customer email address.	varchar(100)	Mandatory
phone	Customer phone number	varchar(50)	Mandatory
address_line_1	Customer address	varchar(100)	Optional
address_line_2	Customer address 2	varchar(100)	Optional
city	Customer city	varchar(50)	Mandatory
state	Customer State	varchar(50)	Optional
country	Customer country must be IND	varchar(50)	Mandatory
zip_code	Customer zip code	varchar(20)	Mandatory
udf1	User defined field 1	varchar(300)	Optional
udf2	User defined field 2	varchar(300)	Optional
udf3	User defined field 3	varchar(300)	Optional
udf4	User defined field 4	varchar(300)	Optional
udf5	User defined field 5	varchar(300)	Optional
bank_code	Bank code identifies the payment mode and channel.	varchar(20)	Mandatory
card_number	Card number (11 to 19 digits)	varchar(19)	Conditional
expiry_date	Expiry date in mm/yyyy format	varchar(7)	Conditional
card_holder_name	Card holder name	varchar(30)	Conditional
CVV	CVV/CVC	varchar(4)	Conditional
return_url	Return URL success - PayFair Payments will make a POST request to this URL after successful transaction, with a set of parameters, which you can process as you want to.	varchar(300)	Mandatory
return_url_failure	Return URL failure - PayFair Payments will make a POST request to this URL after failed transaction, with a set of parameters, which you can process as you want to. Defaults to return_url.	varchar(300)	Optional
return_url_cancel	Return URL cancel - PayFair Payments will make a POST request to this URL after user-cancelled transaction, with a set of parameters, which you can process as you want to.	varchar(300)	Optional
hash	You need to compute a hash of all your parameters and pass that hash to PayFair Payments, for details about calculating hash refer Appendix 2. Note: the SALT will be provided by PayFair Payments separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK	varchar(255)	Mandatory
	or		43

IPHONE APP package.	

Example for seamless UPI Intent

bank_code=UPIU payer_virtual_address

This is the example request for upi seamless

country:India zip_code:560043 bank_code:UPIU

return_url:http://www.example.com/test

mode:LIVE

payer_virtual_address:shivakrishnat095@okhdfcbank

hash:6D09527ECFCFB1F63A07C725F894D58A1B220BF8F78C952DA094F283734D0E174D84699FFBCE8259BD219A 70283C641311BF9C644B95D24E7354A91DE23EF22B

11.3. Response Parameters

Response sent after complete amount is paid. This is a server to browser response

Parameter name	Description
transaction_id	A unique ID that can be used to trace the transaction uniquely within
	PayFair Payments. Transaction IDs are alphanumeric.
payment_mode	This tells the payment mode used by customer - example: "credit card", "debit card", "netbanking", etc.
Payment_channel	The actual payment channel - for example Visa, Master, Diners, HDFC Bank, MobiKwik, etc.
payment_datetime	Date and Time of this payment in "DD-MM-YYYY HH:MM:SS" format
response_code	Status of the transaction (return code). 0 signifies successful transaction. Non-zero values signify error.
response_message	Can have a value of "Transaction Successful" or "Transaction Failed" or "Transaction Cancelled".
error_desc	Failure reason (if transaction is failed)
order_id	The same order_id that was originally posted by the merchant in the request.
amount	The same original amount that was sent by the merchant in the transaction request.
currency	This is the 3digit currency code (INR), it will be same value that was originally sent by merchant.
description	The same description that was originally sent by the merchant in the transaction request.
Name	The same value that was originally sent by merchant
Email	The same value that was originally sent by merchant
Phone	The same value that was originally sent by merchant
address_line_1	The same value that was originally sent by merchant
address_line_2	The same value that was originally sent by merchant
City	The same value that was originally sent by merchant
State	The same value that was originally sent by merchant
country	The same value that was originally sent by merchant
zip_code	The same value that was originally sent by merchant
udf1	The same value that was originally sent by merchant
udf2	The same value that was originally sent by merchant
udf3	The same value that was originally sent by merchant
udf4	The same value that was originally sent by merchant
udf5	The same value that was originally sent by merchant
Cardmasked	The card number used by customer for making payment. This will NOT BE SENT by default, and is sent only in case the merchant has been explicitly approved to receive this information. Else this is always sent as null.
Hash	PayFair Payments calculates the hash using the same algorithm which was outlined earlier. Hence, the merchant needs to check whether this returned hash matches the calculated hash.

12. Appendix 2 - Hash calculation guide

12.1. How to Calculate Hash on API request

To calculate hash, you will need the salt provided by PayFair Payments.

Hashing generation algorithm

Following are the steps to calculate hash.

- 1. Create a | (pipe) delimited string called hash_data with first value as the salt.
- 2. Now sort the post fields based on their keys and create a | delimited string, for the fields with values
- 3. Hash the hash_data string using SHA512 hashing algorithm and save the hash in secure_hash string
- 4. Convert the secure_hash string to upper case

Example PHP code to generate hash

12.2. How to check the response Hash

It is important to make sure the response received from PayFair Payments is genuine, and to do so you will need to do a hash check on your server on receiving the response.

Every response received has a field called hash. Sometimes it is null, which means it in not important to check hash for the response, but if there is a hash present, please perform hash check as described below and make sure integrity of the response received from PayFair Payments APIs.

To check hash, you will need the salt provided by PayFair Payments.

Hash checking algorithm

Example PHP code to check hash

```
* @param string $salt
* @param array $response array
* @return bool
*/
function responseHashCheck($salt, $response_array)
{
/* If hash field is null no need to check hash for such response */
if (is_null($response_array['hash'])) {
     return true;
}
$response_hash = $response_array['hash'];
unset($response array['hash']);
/* Now we have response json without the hash */
$calculated hash = hashCalculate($salt, $response array);
return ($response hash == $calculated hash) ? true : false;
}
/**
* @param string $salt
* @param array $input
* @return string
function hashCalculate($salt, $input)
 /* Columns used for hash calculation, Donot add or remove values from $hash_columns
array */
  $hash_columns = array_keys($input);
  /*Sort the array before hashing*/
sort($hash columns);
/*Create a | (pipe) separated string of all the $input values which are available
in $hash_columns*/
  $hash data = $salt;
  foreach ($hash_columns as $column) {
     if (isset($input[$column])) {
        if (strlen($input[$column]) > 0) {
           $hash data .= '|' . trim($input[$column]);
  $hash = strtoupper(hash("sha512", $hash data));
```

```
return $hash;
```

Example PHP code to check hash if response is JSON

```
* @param $salt
* @param $response_json
* @return bool
function responseHashCheck($salt, $response array)
/* If hash field is null no need to check hash for such response */
  if (is_null($response_array['hash'])) {
   return true;
$response_hash = $response_array['hash'];
 unset($response array['hash']);
$response_json = json_encode($response_array, JSON_UNESCAPED_SLASHES);
/* Now we have response json without the hash */
$calculated_hash = hashCalculate($salt, $response_json);
return ($response_hash == $calculated_hash) ? true : false;
/**
* @param $salt
* @param $input_json
* @return string
function hashCalculate($salt, $input json)
/* Prepend salt with input json and calculate the hash using SHA512 */
 $hash_data = $salt . $input_json;
$hash = strtoupper(hash('sha512', $hash_data));
return $hash;
```

13. Appendix 3 - List of bank codes

Bank Code Payment Mode Payment Channel Description BHQR Bharat QR Bharat QR Bharat QR Bharat QR Payments(Dynamic) Bharat	
Rharat	
Dilatat	
BSQR QR(Static) Bharat QR(Static) Bharat QR Payments(Static)	
EASF Cardless EMI EarlySalary EarlySalary	
INCF Cardless EMI Instacred Instacred	
ZEMF Cardless EMI ZestMoney ZestMoney	
DONH Cash Card DONE Cash Card DONE Cash Card	
ICSH Cash Card Icash Card Icash card	
ITZH Cash Card ITZ Cash Card ITZ Cash card	
PWMH Cash Card PayWorld Cash Card PayWorld Cash Card	
Commercial	
MACC Credit Card Master Master Commercial Credit Card	
Commercial Visco Constitution of Control Control	
VICC Credit Card Visa Visa Commercial Credit Card	
AMXC Credit Card Amex American Express Credit Card	
DINC Credit Card Diners Diners Credit Card	
MASC Credit Card Master Master Credit Cards	
RUPC Credit Card Rupay Rupay Credit Card	
VISC Credit Card Visa Visa Credit Card	
MAED Debit Card Maestro (non-SBI) Maestro Debit Card (non-SBI)	
MSED Debit Card Maestro (SBI) Maestro Debit Card (SBI)	
MASD Debit Card Master Debit Card	
RUPD Debit Card Rupay Rupay Debit Card	
VISD Debit Card Visa Visa Debit Card	
AXIL Direct EMI AXIS Bank Credit EMI AXIS Bank Credit Card EMI	
AXDL Direct EMI AXIS BANK DEBIT EMI AXIS Bank Debit Card EMI	
BOBL Direct EMI Bank of Baroda Credit EMI Bank of Baroda Credit Card EMI	
HDFL Direct EMI HDFC BANK Credit EMI HDFC Bank Credit Card EMI	
HDDL Direct EMI HDFC Bank Debit EMI HDFC Bank Debit Card EMI	
ICIL Direct EMI ICICI Bank Credit EMI ICICI Bank Credit Card EMI	
ICDL Direct EMI ICICI Bank Debit EMI ICICI Bank Debit Card EMI	
KKBL Direct EMI Kotak Mahindra Bank Credit EMI Kotak Mahindra Bank Credit Card E	MI
RBLL Direct EMI RBL Bank Credit Card EMI RBL Bank Credit Card EMI	
SCBL Direct EMI Standard Chartered Bank Credit Card EMI Standard Chartered Bank Credit Ca	d EMI
SBIL Direct EMI State Bank of India Credit EMI State Bank of India Credit Card EMI	
YESL Direct EMI Yes Bank Credit Card EMI Yes Bank Credit Card EMI	
EZP1 EazyPay EazyPay EazyPay	
ECLV E-Collect E-Collect E-Collect (Virtual Accounts)	

AMXE	EMI	American Express Credit EMI	American Express Credit EMI
AXIE	EMI	AXIS Bank Credit EMI	AXIS Bank Credit EMI
AXDE	EMI	AXIS BANK DEBIT EMI	AXIS Bank Debit EMI
BOBE	EMI	Bank of Baroda Credit EMI	Bank of Baroda Credit EMI
CITE	EMI	CITIBANK Credit EMI	CITIBANK Credit EMI
HDFE	EMI	HDFC Bank Credit EMI	HDFC Bank Credit EMI
HDDE	EMI	HDFC Bank Debit EMI	HDFC Bank Debit EMI
		Hong Kong And Shanghai Banking Credit	Hong Kong And Shanghai Banking Credit
HSBE	EMI	EMI	EMI
ICIE	EMI	ICICI Bank Credit EMI	ICICI Bank Credit EMI
INDE	EMI	Indusind Bank Credit EMI	Indusind Bank Credit EMI
KKBE	EMI	Kotak Mahindra Bank Credit EMI	Kotak Mahindra Bank Credit EMI
RBLE	EMI	RBL Bank Credit EMI	RBL Bank Credit EMI
SCBE	EMI	Standard Chartered Bank Credit EMI	Standard Chartered Bank Credit EMI
SBIE	EMI	State Bank of India Credit EMI	State Bank of India Credit EMI
YESE	EMI	Yes Bank Credit EMI	Yes Bank Credit EMI
	International		American Express International Credit
AMXI	Credit Card	Amex	Card
	International		
DINI	Credit Card	Diners	Diners International Credit Card
NAACI	International	Master	Master International Credit Card
MACI	Credit Card International	Master	Master International Credit Card
VICI	Credit Card	Visa	Visa International Credit Card
	International		
MADI	Debit Card	Master	Master International Debit Card
	International		
VIDI	Debit Card	Visa	Visa International Debit Card
ABPN	Netbanking	Aditya Birla Payments Bank	Aditya Birla Payments Bank
ADCN	Netbanking	Ahmedabad District Co-operative Bank	Ahmedabad District Co-operative Bank
AIRN	Netbanking	Airtel Payment Bank	Airtel Payment Bank
		Allahabad Bank Corporate Netbanking	Allahabad Bank Corporate Netbanking
ALLM	Netbanking	(Erstwhile Indian Bank)	(Erstwhile Indian Bank)
ALLN	Netbanking	Allahabad Bank NetBanking (Erstwhile Indian Bank)	Allahabad Bank NetBanking (Erstwhile Indian Bank)
APGN	Netbanking	Andhra Pragathi Grameena Bank	Andhra Pragathi Grameena Bank
AUSN	Netbanking	AU Small Finance Bank	AU Small Finance Bank
		AXIS Bank	
AXIN	Netbanking		AXIS Bank NetBanking
AXIM	Netbanking	AXIS Bank - Corporate	AXIS Bank - Corporate NetBanking
BDNN	Netbanking	Bandhan bank	Bandhan Bank
BDNM	Netbanking	Bandhan bank - Corporate	Bandhan bank - Corporate
BBKN	Netbanking	Bank of Banrain and Kuwait	Bank of Banada Company Replication
BBRM	Netbanking	Bank of Baroda - Corporate	Bank of Baroda Corporate Banking
BBRN	Netbanking	Bank of Baroda - Retail	Bank of Baroda Retail Banking
BOIN	Netbanking	Bank of India	Bank of India
			50

BOMN	Netbanking	Bank of Maharashtra	Bank of Maharashtra
BRLM	Netbanking	Barclays Corporate Banking	Barclays Corporate Banking
BCBN	Netbanking	Bassein Catholic Bank	Bassein Catholic Bank
BCCN	Netbanking	Bassien Catholic Coop Bank	Bassien Catholic Coop Bank
BHAN	Netbanking	Bharat Bank	Bharat Bank
BMBN	Netbanking	Bharatiya Mahila Bank	Bharatiya Mahila Bank
CANN	Netbanking	Canara Bank	Canara Bank
CPFN	Netbanking	Capital Small Finance Bank	Capital Small Finance Bank
CSBN	Netbanking	Catholic Syrian Bank	Catholic Syrian Bank
CBIN	Netbanking	Central Bank Of India	Central Bank Of India
CITN	Netbanking	Citi Bank NetBanking	Citi Bank NetBanking
CUBN	Netbanking	City Union Bank	City Union Bank
COSN	Netbanking	Cosmos Bank	Cosmos Bank
DBSN	Netbanking	DBS Bank	DBS Bank
DCBM	Netbanking	DCB Bank - Corporate	DCB Bank - Corporate Netbanking
DEMN	Netbanking	Demo Bank	Demo Netbanking
DENN	Netbanking	Dena Bank	Dena Bank
DSHN	Netbanking	Deutsche Bank	Deutsche Bank
DCBN	Netbanking	Development Credit Bank	Development Credit Bank
DHNN	Netbanking	Dhanlakshmi Bank	Dhanalakshmi Bank
		Dhanlakshmi Bank - Corporate Net	
DHNM	Netbanking	Banking	Dhanalakshmi Bank - corporate
ESFN	Netbanking	Equitas Bank	Equitas Small Finance Bank Limited
ESAN	Netbanking	ESAF Small Finance Bank	ESAF Small Finance Bank
FEDN	Netbanking	Federal Bank	Federal Bank
FESN	Netbanking	Federal Bank Scan And Pay	Federal Bank Scan And Pay
FSFN	Netbanking	Fincare Small Finance Bank	Fincare Small Finance Bank
GPPN	Netbanking	GP Parsik Sahakari Bank	GP Parsik Sahakari Bank
GSCN	Netbanking	Gujarat State Co-operative Bank Limited	Gujarat State Co-operative Bank Limited
HDFN	Netbanking	HDFC Bank	HDFC Bank
HSBN	Netbanking	HSBC NetBanking	HSBC NetBanking
ICIN	Netbanking	ICICI Bank	ICICI Netbanking
ICIM	Netbanking	ICICI Bank - Corporate	ICICI Bank - Corporate NetBanking
IDBN	Netbanking	IDBI	Industrial Development Bank of India
			Industrial Development Bank of India -
IDBM	Netbanking	IDBI Bank - Corporate	Corporate
IDFN	Netbanking	IDFC Bank	IDFC Bank
ININ	Netbanking	Indian Bank	Indian Bank
IOBN	Netbanking	Indian Overseas Bank	Indian Overseas Bank
INDN	Netbanking	IndusInd Bank	IndusInd Bank
INGN	Netbanking	ING Vysya Bank	ING Vysya Bank
JAKN	Netbanking	Jammu and Kashmir Bank	Jammu and Kashmir Bank
JSFN	Netbanking	Jana Small Finance	Jana Small Finance NetBanking
JAKN	Netbanking	Jammu and Kashmir Bank	Jammu and Kashmir Bank

JSBN	Netbanking	Janata Sahakari Bank	Janata Sahakari Bank
JPBN	Netbanking	Jio Payments Bank	Jio Payments Bank
KJBN	Netbanking Kalyan Janata Sahakari Bank		Kalyan Janata Sahakari Bank
KRKN	Netbanking	Karnataka Bank	Karnataka Bank
KGBN	Netbanking	Karnataka Gramin Bank	Karnataka Gramin Bank
KVGN	Netbanking	Karnataka Vikas Grameena Bank	Karnataka Vikas Grameena Bank
KRVM	Netbanking	Karur Vysya - Corporate	Karur Vysya - Corporate Netbanking
KRVN	Netbanking	Karur Vysya - Retail	Karur Vysya
KKBN	Netbanking	Kotak Mahindra Bank	Kotak Mahindra Bank
LVBN	Netbanking	Laxmi Vilas Bank	Laxmi Vilas Bank - Retail
LVBM	Netbanking	Laxmi Vilas Bank - Corporate	Laxmi Vilas Bank - Corporate
MGBN	Netbanking	Maharashtra Gramin Bank	Maharashtra Gramin Bank
NBLN	Netbanking	Nainital Bank	Nainital Bank
NKBN	Netbanking	NKGSB Bank	NKGSB Bank
NEBN	Netbanking	North East Small Finance Bank	North East Small Finance Bank
NNBN	Netbanking	Nutan Nagarik Sahakari Bank Limited	Nutan Nagarik Sahakari Bank Limited
PYTN	Netbanking	Paytm Bank	Paytm Net Banking
		PNB (Erstwhile-Oriental Bank of	PNB (Erstwhile-Oriental Bank of
OBCN	Netbanking	Commerce)	Commerce)
UNIN	Netbanking	PNB (Erstwhile-United Bank of India)	PNB (Erstwhile-United Bank of India)
PNYN	Netbanking	PNB YUVA Bank	PNB YUVA Bank
PMCN	Netbanking	Punjab & Maharashtra Coop Bank	Punjab & Maharashtra Coop Bank
PSBN	Netbanking	Punjab & Sind Bank	Punjab & Sind Bank
PNBM	Netbanking	Punjab National Bank - Corporate	Punjab National Bank-Corporate
PNBN	Netbanking	Punjab National Bank - Retail	Punjab National Bank - Retail Banking
RTNN	Netbanking	RBL Bank Limited	RBL Bank Limited
RTNM	Netbanking	RBL Bank Limited- Corporate Net Banking	RBL Bank Limited- Corporate Net Banking
RBSN	Netbanking	Royal Bank Of Scotland	Royal Bank Of Scotland NetBanking
SRSN	Netbanking	Saraswat Bank	Saraswat Bank
SOMN	Netbanking	SBM Bank India	SBM Bank India
SVCN	Netbanking	Shamrao Vitthal Co-operative Bank	Shamrao Vitthal Co-operative Bank
		Shamrao Vitthal Co-operative Bank -	Shamrao Vitthal Co-operative Bank -
SVCM	Netbanking	Corporate	Corporate
SMCN	Netbanking	Shivalik Mercantile Cooperative Bank Ltd	Shivalik Mercantile Cooperative Bank Ltd
SOIN	Netbanking	South Indian Bank	South Indian Bank
SCBN	Netbanking	Standard Chartered Bank	Standard Chartered Bank
SBJN	Netbanking	State Bank of Bikaner and Jaipur	State Bank of Bikaner and Jaipur
SBHN	Netbanking	State Bank of Hyderabad	State Bank of Hyderabad
SBIN			
	Netbanking	State Bank of India	State Bank of India
SBMN		State Bank of India State Bank of Mysore	State Bank of India State Bank of Mysore
	Netbanking		
SBMN	Netbanking Netbanking	State Bank of Mysore	State Bank of Mysore

SYDN	Netbanking	Syndicate Bank (Erstwhile Canara Bank)	Syndicate Bank (Erstwhile Canara Bank)
TMBN	Netbanking	Tamilnad Mercantile Bank Ltd.	Tamilnad Mercantile Bank Ltd.
TSCN	Netbanking	Tamilnadu State Coop Bank	Tamilnadu State Coop Bank
TBSN	Netbanking	Thane Bharat Sahakari Bank Ltd	Thane Bharat Sahakari Bank Ltd
		The Kalupur Commercial Cooperative	The Kalupur Commercial Cooperative
KCCN	Netbanking	Bank Limited	Bank Limited
MSBN	Netbanking	The Mehsana Urban Co Op Bank Ltd	The Mehsana Urban Co Op Bank Ltd.
		The Surat People's Co-operative Bank	The Surat People's Co-operative Bank
SPCN	Netbanking	Limited	Limited
SUCN	Netbanking	The Sutex Co-op Bank Ltd	The Sutex Co-op Bank Ltd
VCBN	Netbanking	The Varachha Co-operative Bank	The Varachha Co-operative Bank
TJSN	Netbanking	TJSB Bank	TJSB Bank
UCON	Netbanking	UCO Bank	UCO Bank
USFN	Netbanking	Ujjivan Small Finance Bank	Ujjivan Small Finance NetBanking
UBIM	Netbanking	Union Bank of India - Corporate	Union Bank - Corporate Netbanking
UBIN	Netbanking	Union Bank of India - Retail	Union Bank of India
		Union Bank of India (Erstwhile Andhra	Union Bank of India (Erstwhile Andhra
ADBN	Netbanking	Bank)	Bank)
		Union Bank of India (Erstwhile Andhra	Union Bank of India (Erstwhile Andhra
ADBM	Netbanking	Bank) - Corporate	Bank) - Corporate
CDDN	No all the	Union Bank of India (Erstwhile	Union Bank of India (Erstwhile
CRPN	Netbanking	Corporation Bank)	Corporation Bank)
CRPM	Netbanking	Union Bank of India (Erstwhile Corporation Bank) - Corporate	Union Bank of India (Erstwhile Corporation Bank) - Corporate
UTSN	Netbanking	Utkarsh Small Finance Bank	Utkarsh Small Finance Bank
VRBN	Netbanking		
		Varachha Co-Operative Bank	Varachha Co-Operative Bank
VIJN	Netbanking	Vijaya Bank	Vijaya Bank
YESN	Netbanking	Yes Bank	Yes Bank
YESM	Netbanking	Yes Bank - Corporate	Yes Bank - Corporate
ZOBN	Netbanking	Zoroastrian Co-operative Bank	Zoroastrian Co-operative Bank
ICPL	PayLater	ICICI Pay Later	ICICI Pay Later
LZPY	PayLater	LazyPay	LazyPay
MBZP	PayLater	ZIP	ZIP
5) (0.44	Pharmarack		
PYM1	Credit Card	Pharmarack	Pharmarack Credit Card
MASP	Prepaid Card	Master	Master Prepaid Card
RUPP	Prepaid Card	Rupay	Rupay Prepaid Card
VISP	Prepaid Card	Visa	Visa Prepaid Card
UPII	UPI	Unified Payments Intent Interface	Unified Payments Intent Interface
UPIU	UPI	Unified Payments Interface	Unified Payments Interface
ATLW	Wallet	Airtel Money	Airtel Money
AMRW	Wallet	Airtel Money Rwanda	Airtel Money Rwanda
AMPW	Wallet	Amazon Pay	Amazon Pay
BKSW	Wallet	bKash Wallet	bKash Wallet
CITW	Wallet	Citibank Reward Points	Citibank Reward Points 53

DCB Cippy EZCW Wallet ezeClick ezeClick Wallet FRCW Wallet FreeCharge FreeCharge FreeCharge Wallet IDMW Wallet Idea Money Idea Money JNCW Wallet Jana Cash MBKW Wallet Mobikwik Mobikwik Wallet VDFW Wallet mPesa Wallet mPesa - Vodafone Wallet MRPW Wallet mRupee mRupee Wallet MTIW Wallet MTN CĂ'te d'Ivoire MTN CĂ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet DXIW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet JIOW Wallet SBI Buddy SBI Buddy TMW Wallet The Mobile Wallet TipCash Tip				
FRCW Wallet FreeCharge FreeCharge Wallet IDMW Wallet Idea Money Idea Money JNCW Wallet Jana Cash Jana Cash MBKW Wallet Mobikwik Mobikwik Wallet VDFW Wallet MPesa Wallet MRUPEE MRUPEE WALLET MRPW Wallet MTN CĂ'te d'Ivoire MTN CĂ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash Paycash wallet PTMW Wallet Paytm Paytm Paytm Wallet PHPW Wallet PhonePe PhonePe wallet PNB Wallet Reliance JioMoney Reliance Jio Money wallet SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet PYSW Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet PYSW Wallet Yes Pay YPAW Wallet YpayCash YpayCash	DCBW	Wallet	DCB Cippy	DCB Cippy
IDMW Wallet Idea Money Idea Money JNCW Wallet Jana Cash Jana Cash MBKW Wallet Mobikwik Mobikwik Wallet VDFW Wallet mPesa Wallet mPesa - Vodafone Wallet MRPW Wallet mRupee mRupee Wallet MTIW Wallet MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet YpayCash YpayCash	EZCW	Wallet	ezeClick	ezeClick Wallet
JNCW Wallet Jana Cash Jana Cash MBKW Wallet Mobikwik Mobikwik Mobikwik Wallet VDFW Wallet mPesa Wallet mPesa - Vodafone Wallet MRPW Wallet mRupee mRupee Wallet MTIW Wallet MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash YpayCash	FRCW	Wallet	FreeCharge	FreeCharge Wallet
MBKW Wallet Mobikwik Mobikwik Wallet VDFW Wallet mPesa Wallet mPesa - Vodafone Wallet MRPW Wallet mRupee mRupee Wallet MTIW Wallet MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet Yes Pay YPAW Wallet YpayCash YPayCash	IDMW	Wallet	Idea Money	Idea Money
VDFW Wallet mPesa Wallet mRupee mRupee Wallet MRPW Wallet mRupee mRupee Wallet MTIW Wallet MTN CĂ'te d'Ivoire MTN CĂ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet YpayCash YpayCash	JNCW	Wallet	Jana Cash	Jana Cash
MRPW Wallet mRupee mRupee MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTN Rwanda MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet Orange Money Orange Money Wallet Oxigen Oxigen Wallet Oxigen Oxigen Wallet Paycash Paycash wallet Paytm Paytm wallet Paytm Paytm wallet PAW Wallet Payzapp Payzapp wallet PAW Wallet PhonePe PhonePe wallet PNBW Wallet PhonePe PhonePe Wallet PNBW Wallet PNB Wallet Reliance Jio Money Reliance Jio Money wallet SBI Buddy SBI Buddy SBI Buddy TMW Wallet The Mobile Wallet The Mobile Wallet The Mobile Wallet Yes Pay Yes Pay Yes Pay Yes Pay Yes Pay Yes Pay	MBKW	Wallet	Mobikwik	Mobikwik Wallet
MTIW Wallet MTN CÃ'te d'Ivoire MTN CÃ'te d'Ivoire MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet YpayCash YpayCash	VDFW	Wallet	mPesa Wallet	mPesa - Vodafone Wallet
MTRW Wallet MTN Rwanda MTN Rwanda OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet YpayCash MTN Rwanda Mole Mollet Mollet Paycash Wallet The Mobilet MTh Rwanda MTN Rwanda MTN Rwanda MTN Rwanda MTN Rwanda MTN Rwanda MTN Rwanda Mollet Mollet Mollet Mallet MTh Rwanda MTN Rwanda Mollet Mollet Mollet Mollet Mollet Mollet MTh Rwanda Mollet	MRPW	Wallet	mRupee	mRupee Wallet
OLAW Wallet Ola Money Ola Money Wallet ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	MTIW	Wallet	MTN Côte d'Ivoire	MTN Côte d'Ivoire
ORGW Wallet Orange Money Orange Money Wallet OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet YpayCash YpayCash	MTRW	Wallet	MTN Rwanda	MTN Rwanda
OXIW Wallet Oxigen Oxigen Wallet PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay YPAW Wallet YpayCash Oxigen Wallet Paycash Oxigen Wallet Paycash Wallet Paycash Wallet Paycash Wallet Paycash Wallet Paycash Wallet Paycash Paycash	OLAW	Wallet	Ola Money	Ola Money Wallet
PYCW Wallet Paycash Paycash wallet PTMW Wallet Paytm Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	ORGW	Wallet	Orange Money	Orange Money Wallet
PTMW Wallet Paytm Paytm wallet PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	OXIW	Wallet	Oxigen	Oxigen Wallet
PZAW Wallet Payzapp Payzapp wallet PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	PYCW	Wallet	Paycash	Paycash wallet
PHPW Wallet PhonePe PhonePe wallet PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	PTMW	Wallet	Paytm	Paytm wallet
PNBW Wallet PNB Wallet PNB Wallet JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	PZAW	Wallet	Payzapp	Payzapp wallet
JIOW Wallet Reliance JioMoney Reliance Jio Money wallet SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash	PHPW	Wallet	PhonePe	PhonePe wallet
SBIW Wallet SBI Buddy SBI Buddy TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash YpayCash	PNBW	Wallet	PNB Wallet	PNB Wallet
TMW W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash YpayCash	JIOW	Wallet	Reliance JioMoney	Reliance Jio Money wallet
W Wallet The Mobile Wallet The Mobile Wallet YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash YpayCash	SBIW	Wallet	SBI Buddy	SBI Buddy
YESW Wallet Yes Pay Yes Pay YPAW Wallet YpayCash YpayCash	TMW			
YPAW Wallet YpayCash YpayCash	W	Wallet	The Mobile Wallet	The Mobile Wallet
	YESW	Wallet	Yes Pay	Yes Pay
ZIPW Wallet ZipCash ZipCash	YPAW	Wallet	YpayCash	YpayCash
	ZIPW	Wallet	ZipCash	ZipCash

14. Appendix 4 - List of error codes

Error Num eric Code	Error Code	Error Description	Error Display Text
0	SUCCESS	Transaction successful	Transaction successful
1000	FAILED	Transaction failed	Transaction failed

1001	INVALID- API-KEY	The api key field is incorrect	The api key field is incorrect
1002	INVALID- LIVE- MODE- ACCESS	The live mode access is not allowed	The live mode access is not allowed
1003	INVALID- ORDER- ID-FIELD	The order id field should to be unique	The order id field should to be unique
1004	ORDER- ID-FIELD- NOT- FOUND	The order id field is not found	The order id field is not found
1005	INVALID- AUTHENT ICATION	Invalid authentication at bank	Invalid authentication at bank
1006	WAITING -BANK- RESPONS E	Waiting for the response from bank	Waiting for the response from bank
1007	INVALID- INPUT- REQUEST	Invalid input in the request message	Invalid input in the request message
1008	TRANSAC TION- TAMPERE D	Transaction tampered	Transaction failed due to malicious activity in your account. Please contact the support team
1009	DECLINE D-BY- BANK	Bank Declined Transaction	Bank Declined Transaction
1010	INVALID- AMOUNT	Amount cannot be less than 1	Amount cannot be less than 1
1011	AUTHORI ZATION- REFUSED	Authorization refused	Authorization refused
1012	INVALID- CARD	Invalid Card/Member Name data	Invalid Card/Member Name data
1013	INVALID- EXPIRY- DATE	Invalid expiry date	Invalid expiry date
1014	DENIED- BY-RISK	Transaction denied by risk	Transaction denied by risk
1015	INSUFFICI ENT- FUND	Insufficient Fund in Customer Account	Insufficient Fund in Customer Account
1016	INVALID- AMOUNT -LIMIT	Total Amount limit set for the terminal for transactions has been crossed	Total Amount limit set for the terminal for transactions has been crossed

1017	INVALID- TRANSAC TION- LIMIT	Total transaction limit set for the terminal has been crossed	Total transaction limit set for the terminal has been crossed
1018	INVALID- DEBIT- AMOUNT -LIMIT	Maximum debit amount limit set for the terminal for a day has been crossed	Maximum debit amount limit set for the terminal for a day has been crossed
1019	INVALID- CREDIT- AMOUNT -LIMIT	Maximum credit amount limit set for the terminal for a day has been crossed	Maximum credit amount limit set for the terminal for a day has been crossed
1020	MAXIMU M-DEBIT- AMOUNT -CROSS	Maximum debit amount set for per card for rolling 24 hrs has been crossed	Maximum debit amount set for per card for rolling 24 hrs has been crossed
1021	MAXIMU M- CREDIT- AMOUNT -CROSS	Maximum credit amount set for per card for rolling 24 hrs has been crossed	Maximum credit amount set for per card for rolling 24 hrs has been crossed
1022	MAXIMU M- TRANSAC TION- CROSS	Maximum transaction set for per card for rolling 24 hrs has been crossed	Maximum transaction set for per card for rolling 24 hrs has been crossed
1023	HASH- MISMAT CH	Hash Mismatch	Hash Mismatch
1024	INVALID- PARAMS	Invalid parameters	Invalid parameters
9999	UNKNO WN- ERROR	Unknown error occurred	Unknown error occurred
1025	INVALID- BANK- CODE	Invalid bank code	Invalid bank code
1026	INVALID- MERCHA NT	Merchant is not active	Merchant is not active
1027	INVALID- TRANSAC TION	Invalid transaction	Transaction is invalid
1028	TRANSAC TION- NOT- FOUND	Transaction not found	Transaction not found
1029	TRANSAC TION-	Transaction terminated	Transaction terminated

	TERMINA TED		
	TRANSAC		
1030	TION-	Transaction incomplete	Transaction incomplete
1020	INCOMPL	Transaction incomplete	Transaction incomplete
	ETE		
	AUTO-		
1031	REFUNDE	Transaction auto refunded	Transaction auto refunded
	D		
1032	REFUNDE	Transaction refunded	Transaction refunded
	D		
	SINGLE-		
	TRANSAC TION-	The amount provided is less than	The amount provided is less than transaction
1033	LOWER-	The amount provided is less than transaction lower limit	The amount provided is less than transaction lower limit
	LOWER- LIMIT-	transaction lower little	lower mint
	CROSS		
	SINGLE-		
	TRANSAC		
1024	TION-	The amount provided is more than	The amount provided is more than transaction
1034	UPPER-	transaction upper limit	upper limit
	LIMIT-		
	CROSS		
	TRANSAC		
	TION-	The daily transaction limit is exceeded for	The daily transaction limit is exceeded for the
1035	DAILY-	the merchant	merchant
	LIMIT-		
	CROSS		
	TRANSAC TION-		
1036	MONTHL	The monthly transaction limit is exceeded	The monthly transaction limit is exceeded for the
1030	Y-LIMIT-	for the merchant	merchant
	CROSS		
	DAILY-		
	TRANSAC	The deily transaction assesses is assessed at	The deily transaction name has is accorded for the
1037	TION-	The daily transaction number is exceeded for the merchant	The daily transaction number is exceeded for the merchant
	NUMBER	for the merchant	merchant
	-CROSS		
	MONTHL		
	Υ-		
1038	TRANSAC	The monthly transaction number is	The monthly transaction number is exceeded for
	TION-	exceeded for the merchant	the merchant
	NUMBER		
	-CROSS INVALID-		
1039	REFUND-	The refund amount is greater than	The refund amount is greater than transaction
1000	AMOUNT	transaction amount	amount
40.15	INVALID-		
1040	CVV	Invalid Card Verification Code	Invalid Card Verification Code

1041	AUTO- REFUNDE D-TNP	Transaction is auto refunded by TnP	Transaction is auto refunded by TnP
1042	FAILED- NO- RESPONS E	Transaction failed as there was no response from bank	Transaction failed as there was no response from bank
1043	TRANSAC TION- CANCELL ED	Transaction cancelled	Transaction cancelled
1044	UNAUTH ORIZED	Unauthorized	Unauthorized
1045	FORBIDD EN	Forbidden Access	Forbidden Access
1046	TRANSAC TION- ALREADY - CAPTURE D	Transaction already captured	Transaction already captured
1047	AUTHORI ZED	Transaction authorized	Transaction authorized
1048	CAPTURE D	Transaction captured	Transaction captured
1049	VOIDED	Transaction voided	Transaction voided
1050	NO- RECORD- FOUND	No data record found for the given input	No data record found for the given input
1051	ACQUIRE R-ERROR	Error occurred at the bank end	Error occurred at the bank end
1052	INVALID- EMAIL	Invalid Email ID	Invalid Email ID
1053	INVALID- PHONE	Invalid phone number	Invalid phone number
1055	SEAMLES S-NOT- ALLOWE D	Seamless payment not allowed	Seamless payment not allowed
1054	SESSION- TIMEOUT	Session expired. Please go back and try again.	Session expired. Please go back and try again.
1056	INVALID- VPA	Virtual Payee Address is invalid	Virtual Payee Address is invalid
1057	3DS- FAILED	3D Secure authentication failed	3D Secure authentication failed
1058	ACCOUN T- BLOCKED	Bank Account is blocked	Bank Account is blocked

1059	ACQUIRE R-MAX- TRANSAC TION- LIMIT	Transaction amount limit has exceeded	Transaction amount limit has exceeded
1060	ACQUIRE R-MIN- TRANSAC TION- LIMIT	The amount provide is less than minimum transaction amount allowed	The amount provide is less than minimum transaction amount allowed
1061	ACQUIRE R- VELOCITY -LIMIT	Transaction frequency limit has exceeded	Transaction frequency limit has exceeded
1062	CARD- EXPIRED	Card has expired	Card has expired
1063	HOTLISTE D	Stolen or Lost Card	Stolen or Lost Card
1064	INACTIVE -CARD	The card is inactive	The card is inactive
1065	INCORRE CT-PIN	Incorrect PIN	Incorrect PIN
1066	INSUFFICI ENT- BALANCE	Insufficient Balance	Insufficient Balance
1068	INVALID- BIN	Bin not found	Bin not found
1069	INVALID- CARDHOL DER- NAME	Invalid card holder name	Invalid card holder name
1070	INVALID- CARD- INFO	Invalid brand or bin range not enabled	Invalid brand or bin range not enabled
1071	INVALID- INPUT- DATA	Invalid input data	Invalid input data
1072	ISSUER- DECLINE	Payment decline by bank	Payment decline by bank
1073	ISSUER- DISALLO WED	Transaction not allowed by the issuer	Transaction not allowed by the issuer
1074	ISSUER- ERROR	Payment processing failed due to error at bank	Payment processing failed due to error at bank
1075	ISSUER- LIMIT- DECLINE	Exceeds withdrawal frequency or count limit	Exceeds withdrawal frequency or count limit
1076	MAX- RETRIES	Maximum number of PIN retries exceeded	Maximum number of PIN retries exceeded

1077	OTP- LIMIT- EXCEEDE D	OTP validation attempts limit exceeded	OTP validation attempts limit exceeded
1078	PIN- ATTEMPT S- EXCEEDE D	PIN attempts limit exceeded	PIN attempts limit exceeded
1079	RESTRICT ED-CARD	Restricted card	Restricted card
1080	SUSPECT ED- FRAUD	Suspected fraud	Suspected fraud
1081	TIMEOUT	Payment was not completed on time	Payment was not completed on time
1082	UPI-PIN- NOT-SET	UPI PIN is not set	UPI PIN is not set
1083	UPI- REQUEST -EXPIRED	UPI request expired	UPI request expired
1084	USER- BACK- REFRESH	User pressed refresh button	User pressed refresh button
1085	ACQUIRE R-DOWN	Payment acquirer is down	Payment acquirer is down
1086	TOO- MANY- RECORDS	Response contains too many records, use pagination	Too many records
1087	NOT- ENOUGH - PARAME TERS	Not enough parameters to get response, add one or more optional parameters	Not enough parameters, try adding one or more optional parameters
1088	TRANSAC TION-IN- PROCESS	We are processing your transaction	We are processing your transaction
1089	INVALID- ACCESS- TOKEN	Invalid access token	Invalid access token
1090	TEST- MODE- DISABLED	The test mode access is not allowed	The test mode access is not allowed
1091	INVALID- TRANSFE R-TYPE	The disbursement transfer type is not allowed	The disbursement transfer type is not allowed
1092	INACTIVE - ACCOUN T	The customers account is inactive	The customers account is inactive

1093	INVALID- ACCOUN T	The customers account is invalid	The customers account is invalid
1094	TRANSAC TION- COUNT- EXCEEDE D	Transaction count limit has exceeded for the customer	Transaction count limit has exceeded for the customer
1095	AMOUNT - MISMAT CH	Transaction tampered	Transaction amount mismatch in payment response

15. Appendix 5 – Currency Codes

Currency	Currency Code
INR	Indian Rupee
AED	UAE Dirham
EUR	Euro
GBP	Pound Sterling
USD	US Dollar
MUR	Mauritius Rupee
RWF	Rwanda Franc
LKR	Sri Lanka Rupee
XOF	West African CFA franc

17. Encrypting / Decrypting PAYMENT REQUEST API

1.1. Overview

- This document focuses on encrypting a payment request. Building a payment request and hash creation is explained in Payment Gateway integration document, if that is not received already then contact Payment-Gateway
- For encrypting and decrypting payment request, encryption and decryption keys will be provided by Payment-Gateway.
- Payment request is encrypted using AES algorithm with encryption key and then posted to payment-gateway as explained in following sections.
- Payment gateway will post the final response of the transaction in encrypted format on the return_url
 provided in the request, this response needs to be decrypted using the decryption key as described in
 following sections and then processed further.
 - 1.2. Parameters to be POSTed in Encrypted Payment Request

URL: https://{pg-domain}/v2/paymentrequest

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Payment-Gateway would assign a unique 40-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.	varchar(40)	mandatory
encrypted_data	This field will contain encrypted data (Following section explains how to prepare data and then encrypt it.)	varchar(5000)	mandatory
iv	This field will contain initial vector that is used for encryption, it must be 16 byte long cryptographically secure random string.	varchar(16)	mandatory

1. **Preparation of data**: - First you need to create JSON formatted data and then encrypt the JSON string. Following is the structure of JSON. Details of each field is given in the table following the JSON example.

```
"api_key": "f14e50fd-82f0-4ce0-bd4e-de924908d4ff",
"address_line_1": "Address Line 1",
"address_line_2": "Address Line 2",
"amount": "35.56",
"city": "Bangalore",
"country": "IND",
"currency": "INR",
"description": "Payment Short Description",
"email": "amit@example.com",
```

```
"mode": "LIVE",
"name": "Amit",
"order_id": "XYZ419",
"phone": "9900990099",
"return_url": "https://yoursite.com/return_page_success.php",
"return_url_failure": "https://yoursite.com/return_page_failure.php",
"return_url_cancel": "https://yoursite.com/return_page_success.php",
"state": "Karnataka",
"udf1": "Users Defined Value",
"udf2": "",
"udf3": "",
"udf4": "",
"udf5": "",
"zip_code": "560001",
"hash":
  "23CD8F59DB509F55951CE74C922879128098F4998C72BFD7400011C6B305290DD9333101C1CC70CE
  B04587C49E6949AA864F83D54088F691FD57C7222CDB2572"
```

Parameter Name	Description	Data type	Optional / Mandatory
api_key	Payment-Gateway would assign a unique 40-digit merchant key to each merchant registered on the system by you. This key is exclusive to each respective merchant account. For multiple merchant accounts, there will necessarily be one unique api_key per merchant account that is registered on Payment-Gateway by you		Mandatory
order_id	This is the merchant/aggregator transaction varchar(40) No reference number. It must be unique for every transaction		Mandatory
mode	This is the payment mode (TEST or LIVE are valid varchar(4) values). Defaults to LIVE		Optional
amount	This is the payment amount	decimal(15,2)	Mandatory
currency	This is the 3digit currency code (will always be INR) varchar(3)		Mandatory
description	Brief description of product or service that the customer is being charged for	varchar(500)	Mandatory
name	Name of customer	varchar(100)	Mandatory
email	Customer email address	varchar(100)	Mandatory
phone	Customer phone number	varchar(50)	Mandatory
address_line_1	Customer address	varchar(100)	Optional
address_line_2	Customer address 2	varchar(100)	Optional
city	Customer city		
state	Customer State	varchar(50)	Optional
country	Customer country (defaults to IND)	varchar(50)	Mandatory
zip_code	Customer zip code	varchar(20)	Mandatory
udf1	User defined field 1	varchar(300)	Optional

udf2	User defined field 2	varchar(300)	Optional
udf3	User defined field 3	varchar(300)	Optional
udf4	User defined field 4	varchar(300)	Optional
udf5	User defined field 5	varchar(300)	Optional
bank_code	Bank code identifies the Netbanking bank. Detailed list of bank codes is available in Appendix 2.	varchar(20)	Mandatory
return_url	Return URL success – Payment-Gateway will make a POST request to this URL after successful transaction, with a set of parameters, which you can process as you want to.	varchar(300)	Mandatory
return_url_failure	Return URL failure – Payment-Gateway will make a POST request to this URL after failed transaction, with a set of parameters, which you can process as you want to. Defaults to return_url.	varchar(300)	Optional
return_url_cancel	Return URL cancel – Payment-Gateway will make a POST request to this URL after user-cancelled transaction, with a set of parameters, which you can process as you want to. Defaults to return_url.	varchar(300)	Optional
hash	You need to compute a hash of all your parameters and pass that hash to Payment-Gateway, for details about calculating hash refer Appendix 1. Note: the SALT will be provided by Payment-Gateway separately. NEVER PASS SALT IN A FORM, DO NOT STORE SALT IN ANDROID APP APK or IPHONE APP package.	varchar(200)	Mandatory

2. **Encrypting the JSON data**: - To encrypt we use 256 bit AES encryption, encryption method is AES-256-CBC, encrypted data should be base64 encoded before posting. Encryption key will be provided by Payment-Gateway.

Sample encryption code in PHP is provided below for your reference.

```
/**
  * AES-256-CBC Encryption method, First it encrypts the data and then encodes it to base64
  * @param string $plain_data Plain text Data to be encrypted
  * @param string $encryption_key Provided by Payment Gateway
  * @return array
  */
function encryptData($plain_data, $encryption_key)
{
    $iv = openssl_random_pseudo_bytes(16); //random 16 byte/char long string or unix-
timestamp(10chars)+random-string(6chars) time().mt_rand(100000, 999999)
    $encrypted = openssl_encrypt($plain_data, "AES-256-CBC", $encryption_key, OPENSSL_RAW_DATA,
$iv);
    return [base64_encode($encrypted), base64_encode($iv)];
}
```

2.3. Response Parameters returned by Payment-Gateway

In the response, you will receive AES-256-CBC encrypted data which needs to be decrypted. Following sections explains how to decrypt the encrypted data.

•	, ·	, .	
Davamatay Nama			Description
Parameter Name			Description
			•

api_key	Payment-Gateway would assign a unique 40-digit merchant key to you. This key is exclusive to your business/login account. If you have multiple login accounts, there will necessarily be one different api_key per login account that is assigned to you.
encrypted_data	This field will contain encrypted data (Following section explains how to prepare data and then encrypt it.)
lv	This field will contain initial vector use this to decrypt the encrypted_data received in response

Decrypting the encrypted data: - To decrypt we use 256 bit AES encryption algorithm, decryption method is AES-256-CBC, decrypted data should be base64 decoded before using. Decrypted data will be in JSON format as shown below. Decryption key will be provided by Payment-Gateway.

Sample decryption code in PHP, you can easily get libraries in other languages (.NET, JAVA, Nodejs) to do AES-256-CBC decryption and base64 decoding.

```
* AES-256-CBC Decryption method, First it decodes base64 encoded encrypted data and
 * then decrypts it to get JSON data string
 * @param String $encrypted_data Encrypted data received in response
 * Cparam String $decryption_key Provided by Payment Gateway
  Cparam String $iv Initial Vector iv as received in response
function decryptData($encrypted data, $decryption key, $iv)
   return openssl_decrypt(base64_decode($encrypted_data), 'AES-256-CBC', $decryption_key,
OPENSSL RAW DATA, base64 decode($iv));
JSON response after decryption will be as following, Table below explains each field in JSON response.
 "transaction_id": "FBEEBN12311231231",
 "payment mode": "NetBanking",
 "payment_channel": "Federal Bank",
 "payment_datetime": "2018-09-19 16:19:46",
 "response_code": 1043,
 "response_message": "Transaction cancelled",
 "error desc": "Transaction cancelled",
 "order_id": "607",
 "amount": "100.81",
 "currency": "INR",
 "description": "Payment Short Description",
 "name": "Amit",
 "email": "amit@example.com",
 "phone": "9900990099",
 "address line 1": "Address Line 1",
 "address line 2": "Address Line 2",
 "city": "Bangalore",
 "state": "Karnataka",
```

"country": "IND",

```
"udf1": null,
"udf2": null,
"udf3": null,
"udf4": null,
"udf4": null,
"udf5": null,
"hash":
"64948C7CA2F8861285A246738FF48347FCAEB81D7EBB0F2D00B6BE661EAC1DADCFD59A0FA878CE8789F0DB9E045
FC0943661A9DE4B5984F5D6E32DDEE1BBD4B6"
}
```

"zip_code": "560001",

Parameter name	Description
transaction_id	A unique ID that can be used to trace the transaction uniquely within Payment-Gateway. Transaction IDs are alphanumeric.
payment_mode	This tells the payment mode used by customer. i.e. Net Banking
payment_channel	The actual payment channel i.e. Bank Name
payment_datetime	Date and Time of this payment in "YYYY-MM-DD HH:MM:SS" format
response_code	Status of the transaction (return code). 0 signifies successful transaction. Non-zero values signify error.
response_message	Can have a value of "Transaction Successful" or "Transaction Failed" or "Transaction Cancelled".
error_desc	Failure reason (if transaction is failed)
order_id	The same order_id that was originally posted in the request.
amount	The same original amount that was sent in the transaction request.
currency	This is the 3digit currency code (INR).
description	The same description that was originally sent in the transaction request.
name	The same value that was originally posted in the request
email	The same value that was originally posted in the request
phone	The same value that was originally posted in the request
address_line_1	The same value that was originally posted in the request
address_line_2	The same value that was originally posted in the request
city	The same value that was originally posted in the request
state	The same value that was originally posted in the request
country	The same value that was originally posted in the request
zip_code	The same value that was originally posted in the request
udf1	The same value that was originally posted in the request
udf2	The same value that was originally posted in the request
udf3	The same value that was originally posted in the request
udf4	The same value that was originally posted in the request
udf5	The same value that was originally posted in the request
hash	Payment-Gateway calculates the hash using the same algorithm which was outlined earlier. Hence, it needs to be checked if the returned hash matches the calculated hash.