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Overview

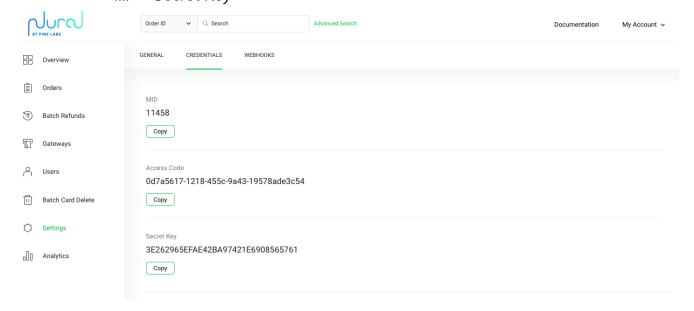
This document aims at describing the integration process details for doing transaction through Plural XT.

Prerequisites

- 1. Sign up on Plural XT Dashboard in test environment
 - a. Click on the link:

https://paymentoptimizerdashboardtest.pinepa.in/dashboardsignup

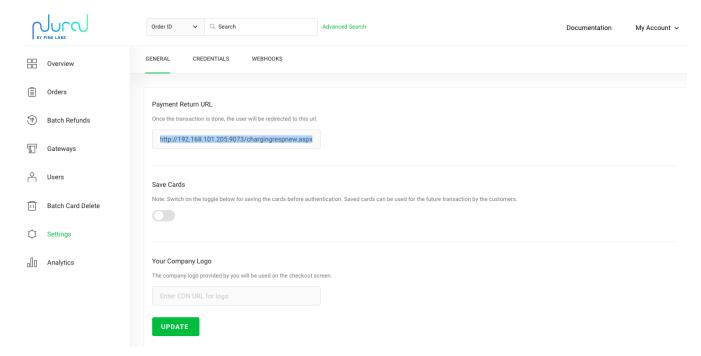
- 2. Take note of Merchant credentials: [Dashboard \rightarrow Settings \rightarrow Credentials]
 - i. MID
 - ii. Access Code
 - iii. Secret Key



3. Configure Payment Return URL (This is necessary step to get the payment response.): [Dashboard->Setting->General->Payment Return URL]

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4. Configure PG

 a. You should get test credentials from the Payment gateways (such as RazorPay, PayU) which you intend to configure.

For Edge test PG:

MID:2415

Password: Access Code (4e919e33-e940-49a7-a2ba-ece896b9800a)

Secret Key: Secret Key (840917F43186472EB2261ABCDE5CA576).

Configuration PG: Dashboard->Gateways->Create Gateway->Select

Gateway->Configure Key_ID and Key_Secrete

b. Configure Payment Modes in the PG

Integration Modes

Redirection and **Seamless** modes are supported. Merchant redirects a customer to Plural XT by Pine Labs landing page. This is called re-direct mode. Capturing customer card details at merchant page is called seamless mode. In this case, merchant needs to be PCI DSS certified.

Customer Journey in Redirect Mode

- 1. Merchant redirects customer to Plural XT's landing page along with merchant and other specific details.
- 2. Customer enters card details on this page.
- Plural XT processes transactions by communicating with Acquirer in turn scheme

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- and then Issuer banks.
- 4. After transaction completion, Plural XT maps transaction with Merchant and order specific details and redirects customer to merchant page along with the response of the transaction.

Customer Journey in Seamless Mode

- 1. In this integration mode, merchant captures card details of the customer at his/her page and calls Pine Labs payment gateway API passing encrypted card details along with merchant and other specific fields.
- 2. Plural XT, Pine Labs' Payment Gateway, processes this transaction, maps transaction with merchant and order specific details and sends response back.

Transaction Steps

1. Create Order: Order represents the shopping cart in the payment journey. Order plays a central part in the payment flow as the subsequent transactions e.g. payment, refund, get status are linked to it. For this, an order must be identified uniquely and you can create and assign a random and unique order_id to the order. This order_id can be used for the subsequently linked transactions to the order.

2. Base payload creation

- a. Prepare request payload using all mandatory parameter and other parameters required by the merchant. <u>Check Sample Request</u>
- b. Encode in Base-64 Check Sample
- c. Hash generation using Base 64 payload and secret key to create X-verify
- d. POST on the url: <host url> Check sample CURL
- 3. Process Payment: When order creation response received then merchant needs to call second consecutive server to server call which would process the payment to create unique transaction id. In this API call merchant need to pass Card/UPI/GPAY/Netbanking transaction related data.
- **4. Order Inquiry:** Order Inquiry API enables the merchant to get the status of the order created by the merchant. For this, the merchant needs to supply the order ID of the order for which the status is sought.

Request Payload { "merchant_data":{ "merchant_id":11401,

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```
"merchant_access_code":"e8d7344f-6aae-4a2e-b868-55a169c291de",
"merchant_return_url":"https://whirlpool.stores2.shoptimize.in/pluralxt/standard/response
/",
   "order_id":"testorder39"
 },
 "payment_info_data":{
   "amount":1431000,
   "currency_code":"INR",
   "preferred_gateway":"EDGE",
   "order_desc":"TEST ORDER!"
 },
 "customer_data":{
   "customer_id":"352391",
   "country_code":"91",
   "mobile_number":"9717263595",
   "email_id":"abc.pgr@xyz.com",
   "first_name":"abc",
   "last_name":"pgr",
   "customer_ref_no":"67589"
 },
 "billing_address_data":{
   "first_name":"harsh",
   "last_name":"kumar",
   "address1":"hon 15",
   "address2":"lal kurti",
   "address3":"jalandhar",
   "pincode":"144005",
   "city":"NOIDA",
   "state": "PUNJAB",
   "country":"INDIA"
 },
 "shipping_address_data":{
   "first_name":"harsh",
   "last_name":"kumar",
   "address1":"hon 15",
   "address2":"lal kurti",
   "address3":"jalandhar",
```

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```
"pincode":"144005",
   "city":"NOIDA",
   "state":"PUNJAB",
   "country":"INDIA"
 },
 "product_info_data":{
   "product_details":[
     {
       "product_code":"50020",
       "product_amount":1431000
     }
   ]
 },
 "additional_info_data":{
   "rfu1":"123"
 }
}
```

Base 64 Encoded Request Body

ewoglCAibWVyY2hhbnRfZGF0YSI6ewoglCAglCAibWVyY2hhbnRfaWQiOjExNDAxLAog ICAqICAibWVyY2hhbnRfYWNjZXNzX2NvZGUiOiJIOGQ3MzQ0Zi02YWFILTRhMmUtYjq2 OC01NWExNjljMjkxZGUiLAoqlCAqlCAibWVyY2hhbnRfcmV0dXJuX3VybCl6lmh0dHBzOi 8vd2hpcmxwb29sLnN0b3Jlczluc2hvcHRpbWl6ZS5pbi9wbHVyYWx4dC9zdGFuZGFyZC 9yZXNwb25zZS8iLAoglCAglCAib3JkZXJfaWQiOiJ0ZXN0b3JkZXIzOSlKICAgfSwKlCAgIn BheW1lbnRfaW5mb19kYXRhljp7CiAqlCAqlCJhbW91bnQiOjE0MzEwMDAsCiAqlCAqlCJ jdXJyZW5jeV9jb2RlljoiSU5SliwKlCAglCAglnByZWZlcnJlZF9nYXRld2F5ljoiRURHRSlsCiA glCAglCJvcmRlcl9kZXNjljoiVEVTVCBPUkRFUiEiCiAglH0sCiAglCJjdXN0b21lcl9kYXRhljp7 CiAqlCAqlC|jdXN0b21lcl9pZCl6ljM1MjM5MSIsCiAqlCAqlC|jb3VudHJ5X2NvZGUiOil5MSI sCiAglCAglCJtb2JpbGVfbnVtYmVyljoiOTcxNzl2MzU5NSlsCiAglCAglCJlbWFpbF9pZCl6l mFiYy5wcXJAeHl6LmNvbSlsCiAglCAglCJmaXJzdF9uYW1lljoiYWJjliwKlCAglCAglmxhc3 RfbmFtZSI6InBxciIsCiAqICAqICJjdXN0b21Icl9yZWZfbm8iOiI2NzU4OSIKICAqfSwKICAqI mJpbGxpbmdfYWRkcmVzc19kYXRhIjp7CiAqlCAqlCJmaXJzdF9uYW1lljoiaGFyc2qiLAoql CAglCAibGFzdF9uYW1lljoia3VtYXliLAoglCAglCAiYWRkcmVzczEiOiJob24gMTUiLAoglC AglCAiYWRkcmVzczliOiJsYWwga3VydGkiLAoglCAglCAiYWRkcmVzczMiOiJqYWxhbmR oYXIiLAoqlCAqlCAicGluY29kZSI6IjE0NDAwNSIsCiAqlCAqlCJjaXR5IjoiTk9JREEiLAoqlCA glCAic3RhdGUiOiJQVU5KQUIiLAoglCAglCAiY291bnRyeSl6lklORElBlgoglCB9LAoglCAic 2hpcHBpbmdfYWRkcmVzc19kYXRhljp7CiAglCAglCJmaXJzdF9uYW1lljoiaGFyc2giLAogl

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CAglCAibGFzdF9uYW1lljoia3VtYXliLAoglCAglCAiYWRkcmVzczEiOiJob24gMTUiLAoglC AglCAiYWRkcmVzczliOiJsYWwga3VydGkiLAoglCAglCAiYWRkcmVzczMiOiJqYWxhbmR oYXliLAoglCAglCAicGluY29kZSl6ljE0NDAwNSlsCiAglCAglCJjaXR5ljoiTk9JREEiLAoglCA glCAic3RhdGUiOiJQVU5KQUliLAoglCAglCAiY291bnRyeSl6lklORElBlgoglCB9LAoglCAic HJvZHVjdF9pbmZvX2RhdGEiOnsKlCAglCAglCAglnByb2R1Y3RfZGV0YWlscyl6WwoglCAglC AglCB7CiAglCAglCAglCAglCJwcm9kdWN0X2NvZGUiOil1MDAyMClsCiAglCAglCAglCAglCAglCAglCAglCJwcm9kdWN0X2Ftb3VudCl6MTQzMTAwMAoglCAglCAglCAglCB9CiAglCAglF0KlCAgfSw KlCAglmFkZGl0aW9uYWxfaW5mb19kYXRhljp7CiAglCAglCJyZnUxljoiMTlzlgoglCB9Cn0 gCg==

CURL for Create Order

Curl for the Create Order API call:

curl --location --request POST

'https://paymentoptimizertest.pinepg.in/api/v2/order/create' \

--header 'x-verify:

05D71346573642DFE24A3628A90A1E180780255A7760B6199BA5CB5FC64E70AC'\

- --header 'Content-Type: application/json' \
- --data-raw

'{"request":"eyJtZXJjaGFudF9kYXRhljp7lm1lcmNoYW50X2lkljoxMTQwMSwibWVyY2hhb nRfYWNjZXNzX2NvZGUiOiJIOGQ3MzQ0Zi02YWFILTRhMmUtYjg2OC01NWExNjIjMjkxZ GUiLCItZXJjaGFudF9yZXR1cm5fdXJsljoiaHR0cHM6Ly93aGlybHBvb2wuc3RvcmVzMi5z aG9wdGltaXplLmluL3BsdXJhbHh0L3N0YW5kYXJkL3Jlc3BvbnNlLyIsIm9yZGVyX2lkIjoidG VzdG9yZGVyMzkifSwicGF5bWVudF9pbmZvX2RhdGEiOnsiYW1vdW50ljoxNDMxMDAw LCJjdXJyZW5jeV9jb2RlljoiSU5SliwicHJlZmVycmVkX2dhdGV3YXkiOiJFREdFliwib3JkZXJfZ GVzYyl6llRFU1QqT1JERVlhln0slmN1c3RvbWVyX2RhdGEiOnsiY3VzdG9tZXJfaWQiOilzN TIzOTEiLCJjb3VudHJ5X2NvZGUiOiI5MSIsIm1vYmIsZV9udW1iZXIiOiI5NzE3MjYzNTk1Iiwi ZW1haWxfaWQiOiJhYmMucHFyQHh5ei5jb20iLCJmaXJzdF9uYW1lljoiYWJjliwibGFzdF9u YW1lljoicHFyliwiY3VzdG9tZX|fcmVmX25vljoiNjc1ODkiLH0slm|pbGxpbmdfYWRkcmVzc 19kYXRhljp7lmZpcnN0X25hbWUiOiJoYXJzaClslmxhc3RfbmFtZSl6lmt1bWFyliwiYWRkc mVzczEiOiJob24gMTUiLCJhZGRyZXNzMil6lmxhbCBrdXJ0aSlsImFkZHJlc3MzljoiamFsYW 5kaGFyliwicGluY29kZSI6IjE0NDAwNSIsImNpdHkiOiJOT0IEQSIsInN0YXRIIjoiUFVOSkFCIi wiY291bnRyeSl6lklORElBln0slnNoaXBwaW5nX2FkZHJlc3NfZGF0YSl6eyJmaXJzdF9uY W1lljoiaGFyc2giLCJsYXN0X25hbWUiOiJrdW1hcilsImFkZHJlc3MxljoiaG9ulDE1liwiYWRk cmVzczliOiJsYWwga3VydGkiLCJhZGRyZXNzMyl6lmphbGFuZGhhcilslnBpbmNvZGUiOilxNDQwMDUiLCJjaXR5IjoiTk9JREEiLCJzdGF0ZSI6IlBVTkpBQilsImNvdW50cnkiOiJJTkRJQSJ 9LCJwcm9kdWN0X2luZm9fZGF0YSI6eyJwcm9kdWN0X2RldGFpbHMiOlt7lnByb2R1Y3R fY29kZSI6ljUwMDIwliwicHJvZHVjdF9hbW91bnQiOjE0MzEwMDB9XX0sImFkZGI0aW9u

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YWxfaW5mb19kYXRhljp7lnJmdTEiOilxMjMifX0=""]'

API References

Create Order

Create Order Request

API URL- <##API host URL##>/api/v2/order/create Content Type- application/json

Request Parameters

Parameters Name	Property Name	Description	
merchant_data			
	merchant_id* (int)	Merchant unique identification id provided by Plural XT	
	merchant_access _code* (string)	Merchant unique access code provided by Plural XT (Length = 50 Characters)	
	order_id* (string)	Unique Order id of transaction maintained at Merchant end (Length = 200 Characters)	
	merchant_return_ url* (string)	Length=500 Characters	
payment_info_data			
	amount* (long)	Total Payment amount in paise	
	currency_code* (string)	INR	
	order_desc (string)	Merchant's order description	
customer_data		Either Customer Id To be sent	
		or if Customer Id is not created at Plural XT's end then rest all Customer Details need to be sent for implementing Saved Card Functionality	

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	customer_id (int)	Customer Id (Received during Create Customer API), to be sent if card is to be saved for Customer
	customer_ref_no (string)	Unique Reference Number of Customer at Merchant's end. (Length = 100 Characters)
	mobile_number (string)	Mobile Number of Customer (Length = 20 Characters)
	email_id (string)	Email Id of Customer (Length = 100 Characters)
	first_name (string)	First Name of Customer (Length = 200 Characters)
	last_name (string)	Last Name of Cusomer (Length = 200 Characters)
	country_code (string)	Country Code (Length = 10 Characters)
billing_address_dat a		
	first_name (string)	Length=50 Characters
	last_name (string)	Length=50 Characters
	address1 (string)	Length=200 Characters
	address2 (string)	Length=200 Characters
	address3 (string)	Length=200 Characters
	pincode (string)	Length=50 Characters
	city (string)	Length=50 Characters
	state (string)	Length=50 Characters
	country (string)	Length=50 Characters
shipping_address_d ata		
	first_name (string)	Length=50 Characters
	last_name (string)	Length=50 Characters
	address1 (string)	Length=200 Characters
	address2 (string)	Length=200 Characters
	address3 (string)	Length=200 Characters
	pincode (string)	Length=50 Characters

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	city (string)	Length=50 Characters	
	state (string)	Length=50 Characters	
	country (string)	Length=50 Characters	
	()		
additional_info_data			
	rfu1 (string)	Length=200 Characters	
	Rfu2 (string)	Length=200 Characters	
	Rfu3 (string)	Length=200 Characters	
	Rfu4 (string)	Length=200 Characters	
	Rfu5 (string)	Length=200 Characters	
	Rfu6 (string)	Length=200 Characters	
	Rfu7 (string)	Length=200 Characters	
	Rfu8 (string)	Length=200 Characters	
	Rfu9 (string)	Length=200 Characters	
	rfu10 (string)	Length=200 Characters	
	rfu11 (string)	Length=200 Characters	
	rfu12 (string)	Length=200 Characters	
	rfu13 (string)	Length=200 Characters	
	rfu14 (string)	Length=200 Characters	
	rfu15 (string)	Length=200 Characters	
	rfu16 (string)	Length=200 Characters	
	rfu17 (string)	Length=200 Characters	
	rfu18 (string)	Length=200 Characters	
	rfu19 (string)	Length=200 Characters	
	rfu20 (string)	Length=200 Characters	
product_info_data			
	product_details[] (Array of Product Details which)	Need to send for Implementing Brand EMI	
product_details	()		
	product_code (string)	Product code present at merchant end	
	product_amount	Product amount in paise (Length = .)	

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Header name	Header value
Content-Type	application/json
X-VERIFY	SHA256of (Base64 request encoded payload)

Create Order Response

Parameters Name	Data Type	Value	Description
response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_message	string		Description the exact reason of transaction failure
plural_order_id	long		Order Id generated by Rapid Pay
token	string		Unique token for process payment transaction. Token expire after predefined time span. The same token needs to pass in next server to server API call to process transaction

Example of response:

```
Success Response
{
    "token": "NK6MRzHCd5dFosGHL2gEGQ%3d%3d",
    "plural_order_id": "301"
    "response_code": 1,
    "response_message": "SUCCESS"
}
```

Failure Response

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```
{
  "response_code": -1,
  "response_message": "DUPLICATE TXN ID",
}

{
  "response_code": -1,
  "response_message": "FAILURE",
}
```

Process payment API call

When order creation response received then merchant need to call second consecutive server to server call which would process the payment to create unique transction id. In this API call merchant need to pass Card/UPI/GPAY/Netbanking transaction related data.

Process payment request

API URL- <##API host URL##>/
api/v2/process/payment?token=eWat4peytZfFi5h586HKpA%3d%3d"
Content Type- application/json

Request Parameters:

Parameters Name	Property Name	Description
txn_data		

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-		
		1-CC/DC 3 - Netabnking 4 - EMI 10- UPI 14 - Debit EMI 11- Wallet
	payment_mode* (String)	"CREDIT_DEBIT" For CC/DC payment mode, "NETBANKING" For Netbanking payment mode, "EMI" For EMI payment mode, "UPI" For UPI payment mode, "WALLET" For Wallet payment mode, "DEBIT_EMI" For Debit EMI payment mode, "ALL" For All payment mode enabled on Merchant
		2 - Redirect 7 - Seamless
	navigation_mod e* (String)	REDIRECT SEAMLESS
card_data		If Payment Mode is CC/DC, then either Card Data or Saved Card Id should be sent
	card_number* (string)	Length=19 Characters
	cvv* (string)	Length=6 Characters
	card_holder_na me* (string)	Length=150 Characters
	card_expiry_yea r* (string)	Length=2 Characters
	card_expiry_mo nth* (string)	Length=4 Characters
	saved_card_id (long)	Saved Card id received while saving card through saved card API
netbanking_dat a		To be sent if netbanking Transaction
		Payment Code for Bank, through which netbanking
		transaction is to be done

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		Mobile number registered for UPI
	upi_option* (string)	UPI Option like Gpay/UPI etc
wallet_data		To be sent if Wallet Transaction
	wallet_code* (String)	Wallet Code
	mobile_number (string)	Mobile Number

Process Payment Request Payload

```
{
 "card_data": {
  "card_number": "4012001037141112",
  "cvv": "123",
  "card_holder_name": "harsh",
  "card_expiry_year": "2020",
  "card_expiry_month": "12",
  "is_card_to_be_saved": false
 },
 "txn_data": {
  "payment_mode": "CREDIT_DEBIT",
  "navigation_mode": "SEAMLESS"
 }
}
Process Payment API- Wallet Payment Mode's Payload
  "wallet_data": {
    "wallet_code": "PAYZAPP",
    "mobile_number": "9050157978"//Mandatory Conditionally - Depends Wallet by
Wallet for PayzApp it's mandatory field
  },
  "txn_data": {
    "payment_mode": "WALLET",
```

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```
₹ Pine Labs
```

```
"navigation_mode": "SEAMLESS"
  }
}
Second Example for Wallet
  "wallet_data": {
    "wallet_code": "PAYTM"
  },
  "txn_data": {
    "payment_mode": "WALLET",
    "navigation_mode": "SEAMLESS"
  }
}
Process Payment API- UPI Payment Mode's Payload
  "upi_data": {
    "vpa": "payu@hdfcbank",
    "upi_option": "UPI"
  },
  "txn_data": {
    "payment_mode": "UPI",
    "navigation_mode": "SEAMLESS"
  }
}
```

Process Payment Response

Parameters Name	Data Type	Value	Description
response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_message	string		Description the exact reason of transaction failure

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		URL on which Merchant	
redirect_url	string	needs to redirect to	
		complete transaction	

Process Payment Response Payload

```
{
"redirect_url":"http://localhost:51462/pinepg/v2/process/payment?token=9KK5R9b3ZKFP
304GcKWgFagM7utHs3tzgignoZWEu%2bQ%3d",
   "response_code":1,
   "response_message":"SUCCESS"
}
```

Redirect Navigation Mode

In case of Redirect Navigation Mode, User needs to browse below URL top open Plural XT Payment Page :

```
<##API host URL##>/
```

pinepg/v2/process/payment/redirect?ordertoken=GZ3eDyFK4FxRrydmQOlm%2fHSE1EvNBHapKWL2m0yiT8c%3d&paymentmodecsv=paymentModes

		Comma Separated Payment Modes
paymentModes	String	which you want on landing Page

Step 3. Merchant need to redirect to API URL shared in Process Payment API. API would call to host to process transaction, and Merchant Will Receive Following Browser Redirect Response

Form Post Response Payload

	 · · · · · · · · · · · · · · · · · · ·	
Key	Value	Details

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merchant_id	Integer	In response you can see the merchant id which you have sent as one of the parameter in Plural XT payment gateway API request parameters.
merchant_access_code	String	In response you can find the merchant access code which you have sent as one of the parameter.
order_id	String	Unique Order id of transaction maintained at Merchant end
plural_order_id	Long	Order Id generated at Plural XT end.
order_status	String	Status of Order
amount_in_paisa	Long	It is the amount for which payment transaction is being done.
acquirer_name	String	Acquirer Bank
payment_mode	String	Payment mode chosen at landing page.
dia_secret	String	Hash of response parameters. Please refer to HashGeneration document. Plural XT payment gateway creates the hash of the response parameters and sends this information in response in tag dia_secret Merchant should use this hash value returned in response to match with new secret generated at its side

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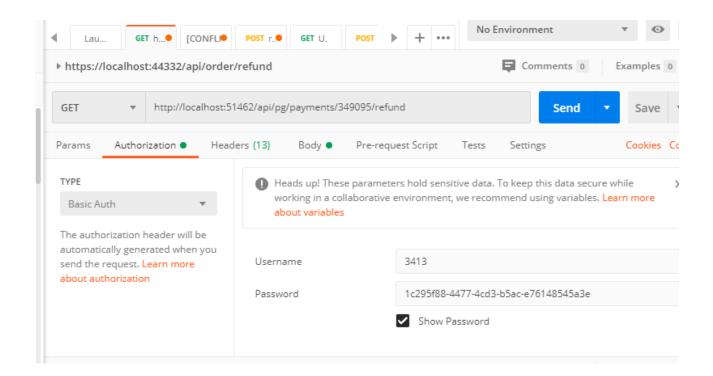
	1	
		using other response
		Parameters. If these
		two secrets do not match then data
		is not authentic.
dia_secret_type	String	'SHA256' or 'MD5' and will
		be the same which is
		passed in
		dia_secret_type
		parameter of request
merchant_return_url	String	Merchant return url
captured_amount_in_pais		Captured amount for a transaction
· ·	long	Captured amount for a transaction
refund_amount_in_paisa	long	Refund amount for a transasction
issuer_name	String	Issuing bank name .
payment_status	String	Status of Payment
payment_completion_date	Date time	Payment completion datetime
_time		, ayment completion autourne
payment_response_code	int	Represent the response of the API
		request and response code is
		returned based on the transaction
		result.
payment_response_mess	String	Payment response message
age		, ,
payment_id	long	Payment id generated at Plural XT
		end
rrn	String	Bank RRN number
product_code	String	
masked_card_number	String	
mobile_no	String	
udf_field_1	String	
udf_field_2	String	
udf_field_2 udf_field_3	String String	
udf_field_3	String	
udf_field_3 udf_field_4	String String	

All the APIs require Authentication,hence we need to send merchant id and access code shared during Onboarding in Authorisation Header Field

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This document shall not be disclosed to any third party.



Refund

End Point

POST: api/pg/payments/:payment_id/refund (payment_id, which is to be refunded)

Request Parameters

Field Name	Description	Туре	Mandatory
amount	Amount to be refunded	long	Υ
unique_request_id	Unique Txn Id generated at Merchant's end for Transaction	Varchar(100)	Υ

```
Request Body:
{
    "payment_info_data": {
        "amount": 200,
        "unique_request_id": "15091832"
}
```

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}

Response Parameters

Parameters Name	Field Name	Data Type	Value	Description
response_c ode		int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_m essage		string		Description the exact reason of transaction failure
merchant_d ata				
	merchant_i d	int		Merchant's Id
	order_id	string		Unique Order id of transaction maintained at Merchant end
order_data				
	plural_order _id	long		Order Id generated at Plural XT's end .
	amount	string		Order Amount in paisa.
	refund_amo unt	string		Amount Refunded Corresponding to Order in Paisa
	currency_co de	string	INR	Currency Code
	order_desc	string		Order Description
	order_statu s	string		Status of Order
payment_in fo_data				
	amount_in_ paisa	long		It is the amount in paisa for which payment transaction is

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		being done.
captured_a mount_in_p aisa	long	It is the amount in paisa for which has been sent to bank
acquirer_na me	string	Acquirer Bank
payment_m ode	string	Payment mode passed
payment_st atus	String	Payment Status
payment_co mpletion_d ate_time	Date time	The date-time of the transaction completion at Plural XT payment gateway server.
payment_re sponse_cod e	int	Represent the response of the API request and response code is returned based on the transaction result.
payment_re sponse_me ssage	String	Payment response
payment_id	long	Payment id, for which we are doing refund
refund_amo unt_in_pais a	Long	Amount Refunded in Paisa
rrn	String	RRN
unique_req uest_id	string	In response you can find the merchant unique transaction Id which you have sent as one of the parameter.
refund_id	long	Unique refund id generated at Plural XT.

Sample Response

{

```
"merchant_data": {
  "merchant_id": 3413,
  "order_id": "150920201318"
 },
 "order_data": {
  "plural_order_id": 30863,
  "amount": 200.
  "currency_code": "INR",
  "order_desc": "TEST ORDER!",
  "order_status": "REFUNDED",
  "refund_amount": 200
 },
 "payment_info_data": {
  "payment_status": "REFUNDED",
  "payment_completion_date_time": "15/09/2020 01:21:20 PM",
  "amount_in_paisa": "200",
  "payment_response_code": "1",
  "payment_response_message": "SUCCESS",
  "acquirer_name": "HDFC",
  "payment_id": "371815",
  "captured_amount_in_paisa": "0",
  "refund_amount_in_paisa": "200",
  "payment_mode": "CREDIT_DEBIT",
  "rrn": "428779754742",
  "unique_request_id": "15091320",
  "refund id": "371816"
 },
 "response_code": 1,
 "response_message": "SUCCESS"
}
```

Response, will also have x-verify in header, which is SHA256(Base64(Response))

Inquiry

Fetching status of a specific order

End Point

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GET: api/pg/orders/:orderid

Response Parameters

Parameters Name	Field Name	Data Type	Value	Description
response_c ode		int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_m essage		string		Description the exact reason of transaction failure
merchant_d ata				
	merchant_i d	int		Merchant's Id
	order_id	string		Unique Order id of transaction maintained at Merchant end
order_data				
	plural_order _id	long		Order Id generated at Plural XT end.
	amount	string		Order Amount in paisa.
	refund_amo unt	string		Amount Refunded Corresponding to Order in Paisa
	currency_co de	string	INR	Currency Code
	order_desc	string		Order Description
	order_statu s	string		Status of Order

Sample Response

{

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```
"merchant_data": {
  "merchant_id": 3413,
  "order_id": "150920201318"
},

"order_data": {
  "plural_order_id": 30863,
  "amount": 200,
  "currency_code": "INR",
  "order_desc": "TEST ORDER!",
  "order_status": "REFUNDED",
  "refund_amount": 200
},
  "response_code": 1,
  "response_message": "SUCCESS"
}
```

Response, will also have x-verify in header, which is SHA256(Base64(Response))

Fetching status of all payments for specific order

GET: api/pg/orders/:id/payments

Response Parameters

Parameters Name	Field Name	Data Type	Value	Description
response_c ode		int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_m essage		string		Description the exact reason of transaction failure
merchant_d ata				
	merchant_i d	int		Merchant's Id
	order_id	string		Unique Order id of transaction maintained at

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				Merchant end
order_data				
	plural_order _id	long		Order Id generated at Plural XT end .
	amount	string		Order Amount in paisa.
	refund_amo unt	string		Amount Refunded Corresponding to Order in Paisa
	currency_co de	string	INR	Currency Code
	order_desc	string		Order Description
	order_statu s	string		Status of Order
payment_in fo_data				
	amount_in_ paisa	long		It is the amount in paisa for which payment transaction is being done.
	captured_a mount_in_p aisa	long		It is the amount in paisa for which has been sent to bank
	acquirer_na me	string		Acquirer Bank
	payment_m ode	String		Payment mode of Transaction
	payment_st atus	String		Payment Status
	payment_co mpletion_d ate_time	Date time		The date-time of the transaction completion at Plural XT payment gateway server.
	payment_re sponse_cod e	int		Represent the response of the API request and response code is returned based on the transaction result.
	payment_re sponse_me	String		Payment response

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ssage		
payment_id	long	Payment id generated at Plural XT
refund_amo unt_in_pais a	Long	Amount Refunded in Paisa
rrn	String	RRN
merchant_r eturn_url	String	Return URL Of Merchant
product_co de	String	Product Code
masked_car d_number	String	Masked Card Number
mobile_no	String	Mobile Number
udf_field_1	String	User Defined Field
udf_field_2	String	User Defined Field
udf_field_3	String	User Defined Field
udf_field_4	String	User Defined Field
card_holder _name	String	Card Holder Name
salted_card _hash	String	Card Hash
auth_code	String	Auth Code

```
Sample Response
{
  "merchant_data": {
    "merchant_id": 3413,
    "order_id": "150920201318"
},
  "order_data": {
    "plural_order_id": 30863,
    "amount": 200,
```

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```
"currency_code": "INR",
  "order_desc": "TEST ORDER!",
  "order_status": "REFUNDED",
  "refund_amount": 200
 },
 "payment_info_data": [
   "payment_status": "REFUNDED",
   "payment_completion_date_time": "15/09/2020 01:20:28 PM",
   "amount_in_paisa": "200",
   "payment_response_code": "1",
   "payment_response_message": "SUCCESS",
   "acquirer_name": "HDFC",
   "payment_id": "371815",
   "merchant_return_url": "http://localhost:53132/ChargingRespnew.aspx",
   "product_code": "TEST",
   "captured_amount_in_paisa": "200",
   "refund_amount_in_paisa": "200",
   "payment_mode": "CREDIT_DEBIT",
   "masked_card_number": "401200*****1112",
   "mobile_no": "9582492891",
   "udf_field_1": "123",
   "udf_field_2": "",
   "udf_field_3": "",
   "udf_field_4": "",
   "card_holder_name": "alfishan",
   "salted_card_hash":
"CE88E1CF9247936231DB21D02498C6470625892F7FE4A6FAC2FE8F6A03D3E4AE",
   "rrn": "425847096720",
   "auth_code": "999999"
  }
 ],
 "response_code": 1,
 "response_message": "SUCCESS"
Response, will also have x-verify in header, which is SHA256(Base64(Response))
```

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Fetching status of all refunds for specific payment id

GET : api/payments/:paymentid/refunds

Response Parameters:

Parameters Name	Field Name	Data Type	Value	Description
response_c ode		int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_m essage		string		Description the exact reason of transaction failure
merchant_d ata				
	merchant_i d	int		Merchant's Id
	order_id	string		Unique Order id of transaction maintained at Merchant end
order_data				
	plural_order _id	long		Order Id generated at Plural XT's end .
	amount	string		Order Amount in paisa.
	refund_amo unt	string		Amount Refunded Corresponding to Order in Paisa
	currency_co de	string	(356 for INR)	Currency Code
	order_desc	string		Order Description
	order_statu s	string		Status of Order
payment_in fo_data				
	amount_in_ paisa	long		It is the amount in paisa for which

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		nayment transaction is
		payment transaction is being done.
captured_a mount_in_p aisa	long	It is the amount in paisa for which has been sent to bank
acquirer_na me	string	Acquirer Bank
payment_m ode	String	Payment mode of Transaction
payment_st atus	String	Payment Status
payment_co mpletion_d ate_time	Date time	The date-time of the transaction completion at Plural XT payment gateway server.
payment_re sponse_cod e	int	Represent the response of the API request and response code is returned based on the transaction result.
payment_re sponse_me ssage	String	Payment response
payment_id	long	Payment id, for which we are doing refund
refund_amo unt_in_pais a	Long	Amount Refunded in Paisa
rrn	String	RRN
unique_req uest_id	string	In response you can find the merchant unique transaction Id which you have sent as one of the parameter.
refund_id	long	Unique refund id generated by Plural XT

Sample Response

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-----------------------------------------------------	----

```
"merchant_data": {
  "merchant_id": 3413,
  "order_id": "150920201318"
 },
 "order_data": {
  "plural_order_id": 30863,
  "amount": 200,
  "currency_code": "INR",
  "order_desc": "TEST ORDER!",
  "order_status": "REFUNDED",
  "refund_amount": 200
 },
 "payment_info_data": [
   "payment_status": "REFUNDED",
   "payment_completion_date_time": "15/09/2020 01:21:20 PM",
   "amount_in_paisa": "200",
   "payment_response_code": "1",
   "payment_response_message": "SUCCESS",
   "acquirer_name": "HDFC",
   "payment_id": "371815",
   "captured_amount_in_paisa": "0",
   "refund_amount_in_paisa": "200",
   "payment_mode": "CREDIT_DEBIT",
   "rrn": "428779754742",
   "unique_request_id": "15091320",
   "refund_id": "371816"
  }
 ],
 "response_code": 1,
 "response_message": "SUCCESS"
}
Response, will also have x-verify in header, which is SHA256(Base64(Response))
```

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Fetching status of specific refund id

GET: api/pg/payments/:payment_id/refunds/:merchant_refund_id

Request Parameters

Parameters Name	Field Name	Data Type	Value	Description
merchant_r efund_id		string		Unique Request Id sent by merchant while doing refund

Response Parameters:

Parameters Name	Field Name	Data Type	Value	Description
response_c ode		int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_m essage		string		Description the exact reason of transaction failure
merchant_d ata				
	merchant_i d	int		Merchant's Id
	order_id	string		Unique Order id of transaction maintained at Merchant end
payment_in fo_data				
	amount_in_ paisa	long		It is the amount in paisa for which payment transaction is being done.

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captur mount aisa		It is the amount in paisa for which has been sent to bank
acquire me	er_na string	Acquirer Bank
payme ode	ent_m String	Payment mode of Transaction
payme atus	ent_st String	Payment Status
payme mpletio ate_tin	on_d Date	The date-time of the transaction completion at Plural XT payment gateway server.
payme sponse e		Represent the response of the API request and response code is returned based on the transaction result.
payme sponse ssage		Payment response
payme	ent_id long	Payment id, for which we are doing refund
refund unt_in_ a		Amount Refunded in Paisa
rrn	String	RRN
unique uest_ic	. I STring	In response you can find the merchant unique transaction Id which you have sent as one of the parameter.
refund	_id long	Unique refund id generated by Plural XT

Sample Response

{

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```
"merchant_data": {
  "merchant_id": 3413,
  "order_id": "150920201318"
 },
 "payment_info_data": {
  "payment_status": "QUERY_COMPLETED",
  "payment_completion_date_time": "15/09/2020 01:21:20 PM",
  "amount_in_paisa": "200",
  "payment_response_code": "1",
  "payment_response_message": "SUCCESS",
  "acquirer_name": "HDFC",
  "payment_id": "371815",
  "captured_amount_in_paisa": "0",
  "refund_amount_in_paisa": "200",
  "payment_mode": "CREDIT_DEBIT",
  "rrn": "428779754742",
  "unique_request_id": "15091320",
  "refund_id": "371816"
 },
 "response_code": 1,
 "response_message": "SUCCESS"
Response, will also have x-verify in header, which is SHA256(Base64(Response))
```

Customer API

Create Customer

End Point

POST : create/customer Request Parameters

Field Name	Description	Туре	Mandatory
customer_ref_no	Unique reference number of Customer at Merchant'e end	Varchar(100)	Υ
mobile_number	Mobile Number of Customer	Varchar(20)	Υ

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email_id	Email Id of	Varchar(100)	V
	Customer		1
first_name	First Name of	Varchar(200)	>
	Customer		Ť
last_name	Last Name of	Varchar(200)	>
	Cusomer		ı
country_code	Country Code	Varchar(10)	Υ

```
Request Body:

{
  "country_code": "91",
  "mobile_number": "9779585525",
  "email_id": "test@juspay.in",
  "first_name": "name",
  "last_name": "lname",
  "customer_ref_no": "12306"
}
```

Response Parameters:

Parameters Name	Data Type	Value	Description
response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_mess age	string		Description the exact reason of transaction failure
customer_id	int		Customer Id generated at Plural XT's end
customer_ref_n o	string		Unique reference number of Customer at Merchant's end
merchant_id	int		Merchant Id
first_name	string		First Name of Customer

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last_name	string	Last Name of Customer
mobile_number	string	Mobile Number of Customer
email_id	string	Email Id of Customer
country_code	string	Country Code Corresponding to Mobil e Number

```
Sample Response
{

"customer_id": 16,

"customer_ref_no": "12306",

"merchant_id": 3413,

"first_name": "name",

"last_name": "lname",

"mobile_number": "9779585525",

"email_id": "test@juspay.in",

"country_code": "91",

"response_code": 1,

"response_message": "SUCCESS"
}
```

Get Customer

End Point

GET: customer/{customerId}

Response Parameters:

Parameters Name	Data Type	Value	Description
--------------------	-----------	-------	-------------

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response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_mess age	string		Description the exact reason of transaction failure
customer_id	int		Customer Id generated at Plural XT's end
customer_ref_n o	string		Unique reference number of Customer at Merchant's end
merchant_id	int		Merchant Id
first_name	string		First Name of Customer
last_name	string		Last Name of Customer
mobile_number	string		Mobile Number of Customer
email_id	string		Email Id of Customer
country_code	string		Country Code Corresponding to Mobil e Number

Sample Response:

```
{
  "customer_id": 16,
  "customer_ref_no": "12306",
  "merchant_id": 3413,
  "first_name": "name",
  "last_name": "lname",
  "mobile_number": "9779585525",
  "email_id": "test@juspay.in",
  "country_code": "91",
  "response_code": 1,
  "response_message": "SUCCESS"
}
```

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Update Customer

End Point

POST: update/customer/{CustomerId}

Request Parameters:

Field Name	Description	Туре	Mandatory
mobile_number	Mobile Number of Customer	Varchar(20)	N
email_id	Email Id of Customer	Varchar(100)	N
first_name	First Name of Customer	Varchar(200)	N
last_name	Last Name of Cusomer	Varchar(200)	N
country_code	Country Code	Varchar(10)	N

Sample Request:

```
{
"country_code":"91",
"mobile_number":"9779585524",
"email_id":"test@juspay.in",
"first_name":"name",
"last_name":"lname_updated"
}
```

Response Parameters:

Parameters Name	Data Type	Value	Description
--------------------	-----------	-------	-------------

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response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_mess age	string		Description the exact reason of transaction failure
customer_id	int		Customer Id generated at Plural XT's end
customer_ref_n o	string		Unique reference number of Customer at Merchant's end
merchant_id	int		Merchant Id
first_name	string		First Name of Customer
last_name	string		Last Name of Customer
mobile_number	string		Mobile Number of Customer
email_id	string		Email Id of Customer
country_code	string		Country Code Corresponding to Mobil e Number

Sample Response:

```
{
    "customer_id": 10,
    "merchant_id": 3413,
    "first_name": "name",
    "last_name": "lname_updated",
    "mobile_number": "9779585524",
    "email_id": "test@juspay.in",
    "country_code": "91",
    "response_code": 1,
    "response_message": "SUCCESS"
}
```

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Saved Card API

Insert Save Card

End Point

POST: api/customer/card/save

Request Parameters:

Sample Request Body:

ParameterName	Field Name	Description	Туре	Mandatory
customer_data				
	customer_id	Customer Id generated at Plural XT's end	int	Y
card_data				
	card_number	Card number	varchar(500)	Υ
	expiry_year	Card Expiry Year	Varchar(4)	у
	expiry_month	Card Expiry Month	varchar(2)	Υ
	card_holder_name	Card holder Name	Varchar(100)	у

```
{
  "customer_data": {
    "customer_id": 16
},
  "card_data": {
    "card_number": "5346800030022920",
    "expiry_year": "2020",
    "expiry_month": "10",
    "card_holder_name": "Ettika"
}
```

}

Response Parameters:

Parameters Name	Data Type	Value	Description
response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_mess age	string		Description the exact reason of transaction failure
expiry_year	string		Card Expiry Year
expiry_month	string		Card Expiry Month
card_holder_na me	string		Card Holder Name
saved_card_id	long		Saved Card Id generated at Plural XT's end.
association_typ e	string		Association Type of Card
issuer_id	int		Card Issuer Id
masked_card_ number	string		Masked Card Number
issuer_name	String		Card Issuing Bank
card_type_id	Int	1- CREDIT CARD 2- DEBIT CARD	Card Type

Sample Response:

{

"expiry_year": "2020",

"expiry_month": "10",

"card_holder_name": "Ettika",

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```
"saved_card_id": 3,

"assosiciation_type": "MASTERCARD",

"issuer_id": 3,

"masked_card_number": "534680*****2920",

"card_holder_mobile_no": null,

"issuer_name": "HDFC",

"card_type_id": 1,

"response_code": 1,

"response_message": "SUCCESS"
}
```

Get Save Card Details For Customer

End Point

POST: api/customer/card/fetch

ParameterName	Field Name	Description	Туре	Mandatory
customer_data				
	customer_id	Customer Id generated at Plural XT's end	int	Υ

```
Sample Request Body :
{
  "customer_data": {
    "customer_id": 10
  }
}
```

Response Parameters:

Parameters Name	Data Type	Value	Description
--------------------	-----------	-------	-------------

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response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_mess age	string		Description the exact reason of transaction failure
card_details	Array of Cards, Saved for Customer		
	expiry_year	string	Card Expiry Year
	expiry_mon th	string	Card Expiry Month
	card_holder _name	string	Card Holder Name
	saved_card _id	long	Saved Card Id
	association _type	string	Association Type of Card
	issuer_id	int	Card Issuer Id
	masked_car d_number	string	Masked Card Number
	response_c ode	int	Response Code
	response_m essage	string	Description Of Response Code
issuer_name	String		Card Issuing Bank
card_type_id	Int	1- CREDIT CARD 2- DEBIT CARD	Card Type

Sample Response

```
{
    "card_details": [
    {
        "expiry_year": "2020",
```

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```
"expiry_month": "11",
   "card_holder_name": "test",
   "saved_card_id": 1,
   "assosiciation_type": "MASTERCARD",
   "issuer_id": 3,
   "masked_card_number": "401200*****1112",
   "card_holder_mobile_no": "",
   "issuer_name": "HDFC",
   "card_type_id": 1,
   "response_code": 0,
   "response_message": null
  },
  {
   "expiry_year": "2020",
   "expiry_month": "11",
   "card_holder_name": "test",
   "saved_card_id": 3,
   "assosiciation_type": "MASTERCARD",
   "issuer_id": 3,
   "masked_card_number": "534680*****2920",
   "card_holder_mobile_no": "",
   "issuer_name": "HDFC",
   "card_type_id": 1,
   "response_code": 0,
   "response_message": null
  }
 ],
 "response_code": 1,
 "response_message": "SUCCESS"
}
```

Delete Save Card Details

End Point

POST: api/customer/card/delete

Request Parameters:

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ParameterName	Field Name	Description	Туре	Mandatory
customer_data				
	customer_id	Customer Id generated at Plural XT's end	int	Υ
card_data				
	saved_card_id	Saved Card Id received during Saving Card Data	long	Υ

```
Sample Request Body :
{
   "customer_data": {
     "customer_id": 1
   },
   "card_data": {
     "saved_card_id": 3
   }
}
```

Response Parameters:

Parameters Name	Data Type	Value	Description
response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_message	string		Description the exact reason of transaction failure

Sample Response:

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```
"response_code": 1,
  "response_message": "SUCCESS"
}
```

EMI/ Debit EMI Transaction Flow

Step 1. Call EMI Calculator API, to fetch emi schemes

POST API URL- <##API host URL##>/api/V2/emi/calculator Content Type- application/json Request Parameters:

Parameter Name	Туре	Description	Mandatory(M)/Optio nal
merchant_data	object	It contains information about merchant.	M
payment_data	object	It contains information about payment data.	M
product_details	Array of objects	It contains information about products present in cart	М

merchant_data object

Parameter Name	Туре	Description	Mandatory(M)/Optio nal
merchant_id	int	Merchant id provided by Plural XT	M
merchant_access_code	string	Merchant access code provided by Plural XT	M

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payment_data object

Parameter Name	Туре	Description	Mandatory(M)/Optio nal
amount_in_paisa	long	Total sum of products amount present in cart.	M

product_details object

Parameter Name	Туре	Description	Mandatory(M)/Optio nal
product_code	string	Product code present at merchant end	M
product_amount	long	Product amount in paise .	М

Sample Request

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Sample Response Parameters

Parameter Name	Туре	Description
issuer	Array of objects	It contains information about issuing bank EMI details.
response_code	int	It notifies the result of api processing. Value 1 denotes success.
response_message	string	It denotes the message corresponding to above code

issuer array

Parameter Name	Туре	Description
list_emi_tenure	Array of objects	It contains information about tenures for each issuer
issuer_name	String	Bank Name
is_debit_emi_issuer	Bool	Denotes whether an issuer is debit or credit

list_emi_tenure array

Parameter Name	Туре	Description
offer_scheme	Object	It contains information about offer applicable on each product
tenure_id	Int	Tenure Id specified at Plural XT end
tenure_in_month	String	Tenure name specified at

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		Plural XT end
monthly_installment	Long	Emi amount in paise
bank_interest_rate	Long	Interest rate for which bank emi is calculated. Its value is percentage multiplied by 10000
interest_pay_to_bank	Long	Interest pay to bank in paise
total_offerred_discount_cashback_a mount	Long	Total sum of discount applicable on cart. It is in paise.
loan_amount	Long	Amount in paise on which loan will be booked
auth_amount	Long	Bank authorization amount in paise

offer_scheme

Parameter Name	Туре	Description
product_details	Array of	It contains information about
	objects	product.
emi_scheme	Object	It contains information about
		bank EMI scheme.

product_details

Parameter Name	Туре	Description
product_code	String	Product code
product_amount	Long	Product amount in paise
subvention_cashback_discount	Long	Subvention discount cashback amount in paise. Only applicable when subvention is present.
product_discount	Long	Product discount amount in paise. Only applicable if product discount is present
subvention_cashback_discount_perc entage	Long	Subvention discount cashback percentage. Its

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		value is percentage multiplied by 10000.
product_discount_percentage	Long	Product discount cashback percentage. Its value is percentage multiplied by 10000.
subvention_type	Int	It tells offer type. 1-No cost EMI 2-Low cost EMI 3-Standard EMI
additional_cashback	String	Additional cashback text
bank_interest_rate	Long	Amount in paise
bank_interest_rate_percentage	Long	Percentage multiplied by 10000
schemes	Array of objects	It contains list of program applicable on product.

emi_scheme

Parameter Name	Туре	Description
scheme_id	Long	It tells scheme id applicable on product
program_type	Int	It tells scheme of which type. 105-Bank EMI 108-Product discount 112-Subvention discount
is_scheme_valid	Bool	Is scheme is valid

schemes

Parameter Name	Туре	Description
scheme_id	Long	It tells scheme id applicable on product
program_type	Int	It tells scheme of which type. 105-Bank EMI 108-Product discount 112-Subvention discount

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is_scheme_valid Bool Is scheme is valid

```
Sample Response
```

```
{
 "issuer": [
  {
   "list_emi_tenure": [
     "offer_scheme": {
      "product_details": [
         "schemes": [
           "scheme_id": 3470,
           "program_type": 106,
           "is_scheme_valid": true
        ],
         "product_code": "40",
         "product_amount": 1000000,
         "subvention_cashback_discount": 200000,
         "product_discount": 0,
         "subvention_cashback_discount_percentage": 100000,
         "product_discount_percentage": 0,
         "subvention_type": 2,
         "additional_cashback": "Hi there is additional casback of rs 100",
         "bank_interest_rate_percentage": 100000,
         "bank_interest_rate": 13369
       }
      1,
      "emi_scheme": null
     },
     "tenure_id": "3",
     "tenure_in_month": "3",
     "monthly_installment": 271123,
     "bank_interest_rate": 100000,
     "interest_pay_to_bank": 13369,
```

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```
"total_offerred_discount_cashback_amount": 200000,
    "loan_amount": 800000
    "auth_amount": 800000
    }
    ],
    "issuer_name": "SBI",
    "is_debit_emi_issuer": false
    }
    ],
    "response_code": 1,
    "response_message": "SUCCESS"
}
```

Step 2. Scheme Validation, to Validate Scheme

POST API URL- <##API host URL##>/api/v2/scheme/validation Content Type- application/json

Request Parameters

Parameter Name	Туре	Description
merchant_data	Object	It contains information about merchant.
payment_data	Object	It contains information about payment
card_data	Object	It contains information about card data
emi_data	Object	It contains information about emi data

merchant_data

|--|

Parameter Name	Туре	Description	Mandatory(M)/Optio nal
merchant_id	int	Merchant id provided by Plural XT	M
merchant_access_code	string	Merchant access code provided by Plural XT	М

payment_data

Parameter Name	Туре	Description	Mandatory(M)/Optio nal
amount_in_paisa	long	Total sum of products amount present in cart.	M

card_data

Parameter Name	Туре	Description
card_number	String	Card number
card_expiry_year	String	Card expiry year having format YYYY
card_expiry_month	String	Card expiry month having format MM
card_holder_name	String	Card holder name

emi_data

Parameter Name	Туре	Description
offer_scheme	Object	It contains information about offer applicable on each product
tenure_id	Int	Tenure Id specified at Plural XT end
tenure_in_month	String	Tenure name specified at

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		Plural XT end
monthly_installment	Long	Emi amount in paise
bank_interest_rate	Long	Interest rate for which bank emi is calculated. Its value is percentage multiplied by 10000
interest_pay_to_bank	Long	Interest pay to bank in paise
total_offerred_discount_cashback_a mount	Long	Total sum of discount applicable on cart. It is in paise.
loan_amount	Long	Amount in paise on which loan will be booked
auth_amount	Long	Bank authorization amount in paise.

offer_scheme

Parameter Name	Туре	Description
product_details	Array of objects	It contains information about product.
emi_scheme	Object	It contains information about bank EMI scheme.

product_details

Parameter Name	Туре	Description
product_code	String	Product code
product_amount	Long	Product amount in paise
subvention_cashback_discount	Long	Subvention discount cashback amount in paise. Only applicable when subvention is present.
product_discount	Long	Product discount amount in paise. Only applicable if product discount is present

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subvention_cashback_discount_perc entage	Long	Subvention discount cashback percentage. Its value is percentage multiplied by 10000.
product_discount_percentage	Long	Product discount cashback percentage. Its value is percentage multiplied by 10000.
subvention_type	Int	It tells offer type. 1-No cost EMI 2-Low cost EMI 3-Standard EMI
additional_cashback	String	Additional cashback text
bank_interest_rate	Long	Amount in paise
bank_interest_rate_percentage	Long	Percentage multiplied by 10000
schemes	Array of objects	It contains list of program applicable on product.

emi_scheme

Parameter Name	Туре	Description
scheme_id	Long	It tells scheme id applicable
		on product
program_type	Int	It tells scheme of which type.
		105-Bank EMI
		108-Product discount
		112-Subvention discount
is_scheme_valid	Bool	Is scheme is valid

Schemes

Parameter Name	Туре	Description
scheme_id	Long	It tells scheme id applicable
		on product
program_type	Int	It tells scheme of which type.
		105-Bank EMI
		108-Product discount
		112-Subvention discount
is_scheme_valid	Bool	Is scheme is valid

Sample Request for All Credit cards , Axis and ICICI debit cards.

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{"merchant_data":{"merchant_id":3473,"merchant_access_code":"57e39383-b053-4db9-a708-26d8971886e7"},"payment_data":{"amount_in_paisa":1100000},"card_data":{"card_number":"4012001037141112","card_expiry_year":"2020","card_expiry_month":"09", "card_holder_name":"harsh"},"emi_data":{"offer_scheme":{"product_details":[{"schemes": [{"scheme_id":1682,"program_type":112,"is_scheme_valid":true}],"product_code":"SM-G 975FCWG","product_amount":550000,"subvention_cashback_discount":11705,"product_discount":0,"subvention_cashback_discount_percentage":21500,"product_discount_percentage":0,"subvention_type":1},{"schemes":[],"product_code":"40","product_amount":55 0000,"subvention_cashback_discount":0,"subvention_cashback_discount_percentage":0,"product_discount":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_percentage":0,"subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashback_discount_subvention_cashba

Response Parameters:

Parameter Name	Туре	Description
response_code	int	It notifies the result of api processing. Value 1 denotes success.
response_message	string	It denotes the message corresponding to above code
offer_scheme	Object	It contains information about offer applicable on each product. This tag will come in response only in case of failure.

offer_scheme

Parameter Name	Туре	Description
product_details	Array of	It contains information about

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	objects	product.
emi_scheme	Object	It contains information about
		bank EMI scheme.

product_details

Parameter Name	Туре	Description
product_code	String	Product code
product_amount	Long	Product amount in paise
subvention_cashback_discount	Long	Subvention discount
Subvertion_custibuck_discount	Long	cashback amount in paise.
		Only applicable when
		subvention is present.
product_discount	Long	Product discount amount in
product_discount	Long	paise. Only applicable if
		product discount is present
subvention_cashback_discount_perc	Long	Subvention discount
entage	20119	cashback percentage. Its
		value is percentage
		multiplied by 10000.
product_discount_percentage	Long	Product discount cashback
	9	percentage. Its value is
		percentage multiplied by
		10000.
subvention_type	Int	It tells offer type.
		1-No cost EMI
		2-Low cost EMI
		3-Standard EMI
additional_cashback	String	Additional cashback text
bank_interest_rate	Long	Amount in paise
bank_interest_rate_percentage	Long	Percentage multiplied by
		10000
schemes	Array of	It contains list of program
	objects	applicable on product.

emi_scheme

Parameter Name	Туре	Description
scheme_id	Long	It tells scheme id applicable

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		on product
program_type	Int	It tells scheme of which type.
		105-Bank EMI
		108-Product discount
		112-Subvention discount
is_scheme_valid	Bool	Is scheme is valid

Schemes

Parameter Name	Туре	Description
scheme_id	Long	It tells scheme id applicable
		on product
program_type	Int	It tells scheme of which type.
		105-Bank EMI
		108-Product discount
		112-Subvention discount
is_scheme_valid	Bool	Is scheme is valid
reasons	Array of	Description for failure of
	object	schemes

Reasons

Parameter Name	Туре	Description
reason_code	int	It denotes the reason code
reason_message	String	It denotes the reason
		message again the code

Success response

```
{
    "response_code": 1,
    "response_message": "SUCCESS",
}
```

Failure response

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{"offer_scheme": {"product_details": [{ "schemes": [{ "scheme_id": 8055, "program_type": 112, "is_scheme_valid": true }, { "scheme_id": 8042, "program_type": 108, "is_scheme_valid": false, "reasons": [{ "reason_code": -298, "reason_message": "OUTDATED_SCHEME_PRESENT" }] }], "product_code": "SM-G950FZKDINS", "product_amount": 550000, "subvention_cashback_discount": 9675, "product_discount": 100000, "subvention_cashback_discount_percentage": 21500, "product_discount_percentage": 100000, "subvention_type": 1 }, { "schemes": [], "product_code": "6504", "product_amount": 4500000, "subvention_cashback_discount": 0, "product_discount": 0, "subvention_cashback_discount_percentage": 0, "product_discount_percentage": 0 }], "emi_scheme": { "scheme_id": 8056, "program_type": 105, "is_scheme_valid": true } }, "response_code": -289, "response_message": "SCHEME VALIDATION FAILED" }

Step 3. Create Order:

(Same as Order ID Generation, For other Payment Modes)

Step 4. Process Payment

API URL- <##API host URL##>/
api/v2/process/payment?token=eWat4peytZfFi5h586HKpA%3d%3d"
Content Type- application/json

Request Parameters:

Parameters Name	Property Name	Description
txn_data		
	payment_mod e* (Int String)	"DEBIT_EMI" For Debit EMI payment mode, "EMI" For EMI payment mode
	navigation_mo de* (Int String)	2 - Redirect 7 - Seamless REDIRECT SEAMLESS
card_data		If Saved Card id is not sent, then we will send card Data

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	card_number* (string)	Length=19 Characters
	saved_card_id (long)	If transaction is to be done using Saved Card, then Saved Card id received while saving card through saved card API
	cvv* (string)	Length=6 Characters
	card_holder_na me* (string)	Length=150 Characters
	card_expiry_ye ar* (string)	Length=2 Characters
	card_expiry_m onth* (string)	Length=4 Characters
emi_data		Offer Scheme, which is to be availed Fetched using EMI Calculator API.
additional_da ta		
		Mobile Number registered withBank (Length = 10 Characters)

```
Sample Request
{

"card_data": {

"card_number": "401200103778404",

"cvv": "123",

"card_holder_name": "alfishan",

"card_expiry_year": "2023",

"card_expiry_month": "02",

"is_card_to_be_saved": true
},

"txn_data": {

"payment_mode": "DEBIT_EMI",

"navigation_mode": "SEAMLESS"
},

"emi_data": {
```

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```
"offer_scheme": {
   "product_details": [
    {
     "schemes": [
       "scheme_id": 3478,
       "program_type": 106,
       "is_scheme_valid": true
      }
     ],
     "product_code": "40",
     "product_amount": 1000000,
     "subvention_cashback_discount": 100100,
     "product_discount": 0,
     "subvention_cashback_discount_percentage": 100000,
     "product_discount_percentage": 0,
     "subvention_type": 2,
     "bank_interest_rate_percentage": 100000,
     "bank_interest_rate": 15037
    }
   1,
   "emi_scheme": null
  },
  "tenure_id": "3",
  "tenure_in_month": "3",
  "monthly_installment": 304979,
  "bank_interest_rate": 100000,
  "interest_pay_to_bank": 15037,
  "total_offerred_discount_cashback_amount": 100100,
  "loan_amount": 899900,
  "auth_amount": 899900
 }
}
```

Response Parameters:

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Parameters Name	Data Type	Value	Description
response_code	int	1- Success Transaction -1- Failure Transaction	Plural XT would provide all response codes list.
response_message	string		Description the exact reason of transaction failure
redirect_url	string		URL on which Merchant needs to redirect to complete transaction
api_url	string	(In case of HDFC DC EMI)	API URL which Merchant needs to hit for Further Processing

Response: (For Credit EMI and DC EMI (AXIS, ICICI)

```
{
    "redirect_url":
    "http://localhost:51462/pinepg/v2/process/payment?token=gRVrq8oxFBARCJ9czSnDY9Y
    BgoVfxF4pTwRIC7XxPhc%3d",
    "response_code": 1,
    "response_message": "SUCCESS"
}
```

Click on Redirect URL, to complete transaction.

For HDFC DC EMI

Response:

{

"api_url":

"http://localhost:51462/api/v2/validate/otp?token=ZbLh08e6J%2f1WR8%2bGIYShPSPqmqlk3E7t1dJulGsyD88%3d",

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```
"response_code": 1,
  "response_message": "SUCCESS"
}
```

Step 5. Validate OTP

Post:

api/v2/validate/otp?token=4nmaQ9ekZCPJks%2b3Np3EiNIWzI5PWIW0uz2QGiGpvlk%3d

Request Parameters:

Field Name	Description	Туре	Mandatory
otp	Otp received on Mobile Number	varchar	Υ

Request:

{"otp":"123456"}

Response Parameters:

Parameter Name	Туре	Description
response_code	int	It notifies the result of api processing. Value 1 denotes success.
response_message	string	It denotes the message corresponding to above code
validate_otp_response	Object	It contains response received from Bank.
api_url	String	Url on which you need to make subsequent api calls

validate_otp_response

Parameter Name	Туре	Description
customer_name	String	Customer name

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interest_rate	Long	Interest rate
merchant_name	String	Merchant name at bank end
total_amount_in_paise	Long	Total amount in paise
emi_amount_in_paise	Long	Emi amount in paise
Address	String	Customer address at bank's end
tenure_in_months	int	Tenure
last6digitaccountnumber	String	Last 6 digit of account number

Sample Response:

{"api_url":"https://environment/api/v2/order/confirmation?token=LMIBhf7p8dFcu3K0%2fvntrY1URugF3sPS0bjPL71RDYE%3d","validate_otp_response":{"customer_name":"Kamal Chowla","interest_rate":160000,"merchant_name":"PINELAB","total_amount_in_paise": 1000000,"emi_amount_in_paise":174530,"address":"INSURANCE REGULATORY ANDDEVELOPMENT

AUTXXXXXXXXXXXXXDELHI110001","tenure_in_months":"6","last6digitaccountnum ber":"077958"},"response_code":1,"response_message":"SUCCESS"}

Step 6. Order Confirmation

Post:

/api/v2/order/confirmation?token=4nmaQ9ekZCPJks%2b3Np3EiNIWzI5PWIW0uz2QGiGpvlk%3d

Response Parameters:

Parameter Name	Туре	Description
response_code	int	It notifies the result of api processing. Value 1 denotes success.
response_message	string	It denotes the message

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		corresponding to above code
order_confirmation_response	Object	It contains transaction
		response

order_confirmation_response

Key	Value	Details
merchant_id	Integer	In response you can see the merchant id which you have sent as one of the parameter in Plural XT payment gateway API request parameters.
merchant_access_code	String	In response you can find the merchant access code which you have sent as one of the parameter.
amount_in_paisa	Long	It is the amount for which payment transaction is being done.
acquirer_name	String	Acquirer Bank
payment_mode	String	Payment mode chosen at landing page.
merchant_return_url	String	Merchant return url
captured_amount_in_pais	long	Captured amount for a transaction
refund_amount_in_paisa	long	Refund amount for a transasction
issuer_name	String	Issuing bank name .
order_id	String	Unique Order id of transaction maintained at Merchant end
plural_order_id	Long	Order Id generated at Plural XT end.
order_status	String	Status of Order
payment_status	String	Status of Payment
payment_completion_date _time	Date time	Payment completion datetime

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payment_response_code	int	Represent the response of the API request and response code is returned based on the transaction result.
payment_response_mess	String	Payment response message
age		
payment_id	long	Payment id generated at Plural XT end
rrn	String	Bank RRN number
product_code	String	
masked_card_number	String	
mobile_no	String	
udf_field_1	String	
udf_field_2	String	
udf_field_3	String	
udf_field_4	String	
card_holder_name	String	
salted_card_hash	String	

```
Response:
 "order_confirmation_response": {
  "merchant_id": "3413",
  "merchant_access_code": "1c295f88-4477-4cd3-b5ac-e76148545a3e",
  "amount_in_paisa": "1000000",
  "acquirer_name": "Edge",
  "merchant_return_url": "http://localhost:53132/ChargingRespnew.aspx",
  "product_code": "TEST",
  "captured_amount_in_paisa": "899900",
  "refund_amount_in_paisa": "0",
  "masked_card_number": "401200****8404",
  "mobile_no": "9582492891",
  "udf_field_1": "123",
  "udf_field_2": "",
  "udf_field_3": "",
  "udf_field_4": "",
  "card_holder_name": "alfishan",
  "salted_card_hash":
```

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```
"6A1F78AFAFFA3C3F28E15A0F2D111DEED84856C03D3895E69DE68ABDC5F44FBE"
```

```
"order_id": "150920201711",
   "payment_status": "CAPTURED",
   "payment_completion_date_time": "15/09/2020 05:14:10 PM",
   "payment_response_code": 1,
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