Proxy Payment Gateway REST API Documentation

Version 2.4

15th of December 2020

Versions Information		
Version	Date	Note
2.1	11th of June 2020	English Version
2.2	30th of June 2020	Add Forcing Card Number
2.3	3rd of October 2020	Add Orders List
2.4	15th of December 2020	National Code Support

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Introduction

PPG is the Proxy Payment Gateway of JIBit corp. It lets the users of merchants to purchase goodies from them using PPG as a transparent payment gateway. In back-end the user will be redirected to a PSP payment gateway (ex. Sadad) to pay the price of the order.

The base URL of PPG is as follow:

https://api.jibit.ir/ppg/v2

Error Handling Mechanism

In any unsuccessful endpoint call (4xx and 5xx http status codes) the response is a JSON content with the form of

Sample Form

```
{
  "fingerprint": "79d4215f-deba-4f3c-8024-839448bcfaa0",
  "errors": [
    {
      "code": "token.generation.failed",
      "message": "Token generation failed."
    }
  ]
}
```

The fingerprint helps us to track the exact problem internally. The errors array contains a list of possible errors, each error has a code as field and this field can be used to see the meaning of error. Sometimes you will see message alongside code, this message is a human readable reason of error occurred.

If you encountered service.internal_error as code, tell us the value of fingerprint to be able to track the exact problem internally.

Authentication Mechanism

In order to be able to call endpoints of this service you should first generate a pair of tokens; That can be generated by the following endpoint

POST /tokens/generate
(With base URL: https://api.jibit.ir/ppg/v2/tokens/generate)

Request Header Parameters

Parameter	Type	Required	Description
Content-Type	application/json	Yes	Indicates the content type of request which is JSON
Accept	application/json, */*	No	Indicates the requested content type of response which is JSON
Accept-Language	en, fa	No	Indicates the preferred language of error messages

Request Body Parameters

Parameter	Type	Required
apiKey	string	Yes
secretKey	string	Yes

Response Body Parameters

Parameter	Type	Description
accessToken	string	Valid for 24 hours
refreshToken	string	Use in refresh token endpoint

Possible Status and Error Codes:

400
- generate_token.api_key.is_required: The API key is required.
- generate_token.secret_key.is_required: The secret key is required.
- web.invalid_or_missing_body: The body is invalid or missing.
- binding.type_mismatch: When the type of a sent field is wrong.
-

401
- token.channel_not_active: Channel is disabled.
- token.generation.failed: Token generation failed.

404
- web.no_handler: When the requested address is invalid.

405
- web.method_not_allowed: The HTTP method not supported on the resource.

406
- web.not_acceptable: When the Accept header is invalid.

415
- web.unsupported_media_type: When the Content-Type header is not supported.

500
- service.internal_error: When we fail to handle the request.

Refresh Tokens Request

As mentioned previously the access token is only valid for 24 hours, so you should provide an internal mechanism to refresh tokens periodically. For example, using schedulers.

POST /tokens/refresh

Request Header Parameters

Parameter	Type	Required	Description
Content-Type	application/json	Yes	Indicates the content type of request which is JSON
Accept	application/json, */*	No	Indicates the requested content type of response which is JSON
Accept-Language	en, fa	No	Indicates the preferred language of error messages

Request Body Parameters

Parameter	Type	Description
accessToken	string	
refreshToken	string	

Response Body Parameters

Parameter	Type	Description
accessToken	string	Valid for 24 hours
refreshToken	string	Use in next refresh token call

Possible Status and Error Codes:

400

- refresh_token.access_token.is_required: Access token is required.
- refresh_token.refresh_token.is_required: Refresh token is required.
- web.invalid_or_missing_body: The body is invalid or missing.
- binding.type_mismatch: When the type of a sent field is wrong.
-

401

- token.channel_not_active: Channel is disabled.
- token.generation.failed: Token generation failed.

404

- web.no_handler: When the requested address is invalid.

405

- web.method_not_allowed: The HTTP method not supported on the resource.

406

- web.not_acceptable: When the Accept header is invalid.

415

- web.unsupported_media_type: When the Content-Type header is not supported.

500

- service.internal_error: When we fail to handle the request.

Create Order

You can create a new order (purchase) by calling this endpoint

POST /orders

Request Header Parameters

Parameter	Type	Required	Description
Authorization	Bearer accessToken	Yes	Encapsulates the access token of merchant
Content-Type	application/json	Yes	Indicates the content type of request which is JSON
Accept	application/json, */*	No	Indicates the requested content type of response which is JSON
Accept-Language	en, fa	No	Indicates the preferred language of error messages

Request Body Parameters

Parameter	Type	Required	Description
amount	long	Yes	The amount of order
currency	string	Yes, But the default value is RIALS	Represents the currency type. Possible values are TOMAN, RIALS
referenceNumber	string	Yes	A string value from merchant side to trace order in our system
userIdentifier	string	Yes	Identifies the user in the merchant system. It can be mobile number
callbackUrl	string	Yes	Represents a callback which we should call in order to notify the merchant about a particular order state. For example, when the user pays the order, we would call this callback and let the merchant know about the payment
description	string	No	An optional merchant provided description for the order
additionalData	string	No	An optional additional data provided by the merchant
payerCardNumber	string	No	Bank card number which is required to do the transaction Only this card number can be used to do the transaction
forcePayerCardNumber	string	Yes, But the default value is 'false'	If merchant send 'payerCardNumber' it can force the payer to use only that card number to complete the payment
nationalCode	string	No	If filled, the payer should pay with a card number associated with provided national code.

Response Body Parameters

Parameter	Type	Description
orderIdentifier	string	The Identifier for the just created order
referenceNumber	string	A string value from merchant side to trace order in our system
pspSwitchingUrl	string	The URL pointing to our PSP switching web service. If merchant redirect the user to this URL, he/she will be redirected to PSP payment gateway

Possible Status and Error Codes:

400

- order_create.user_identifier.is_required: User identifier is required.
- order_create.reference_number.is_required: Reference number is required.
- order_create.amount.is_required: Amount of order is required.
- order_create.amount.positive: Amount of order must be positive (more than 99).
- order_create.currency.is_required: Currency is required.
- order_create.callback_url.is_required: Callback URL is required.
- order_create.callback_url.not_valid: Callback URL is invalid.
- merchant.inactive: Merchant is inactive.
- web.invalid_or_missing_body: The body is invalid or missing.
- binding.type_mismatch: When the type of a sent field is wrong.

401

- token.verification.failed: When the token verification fails.

404

- merchant.not_found: The merchant not found.
- web.no_handler: When the requested address is invalid.

405

- web.method_not_allowed: The HTTP method not supported on the resource.

406

- web.not_acceptable: When the Accept header is invalid.

415

- web.unsupported_media_type: When the Content-Type header is not supported.

500

- service.internal_error: When we fail to handle the request.

Callback Merchant

When the payment of PSP done (successfully or with failure), we will callback the merchant by GET method and with below parameters as query parameter.

Merchant callback URL is provided by field callbackUrl when creating the order.

Request Header Parameters

Parameter	Type	Description
amount		The amount of order in Rials currency
refnum		The order identifier (reference number) in Jibit system
state		The state of payment. If state was FAILED or ORDER_NOT_FOUND the payment was not successful

Example of merchant callback:

GET https://merchant.ir/callback?amount=200000&refnum=Re35F2&state=SUCCESSFUL

Verify Order

If user's purchase on PSP payment gateway was successful, the merchant must verify the order by calling this endpoint in less than 15 minutes:
After 15 minutes from order creation, the not-verified ones will be expired.

GET /orders/{orderIdentifier}/verify

Request Header Parameters

Parameter	Type	Required	Description
Authorization	Bearer accessToken	Yes	Encapsulates the access token of merchant.
Accept	application/json, */*	No	Indicates the requested content type of response which is JSON
Accept-Language	en, fa	No	Indicates the preferred language of error messages

Response Body Parameters

Parameter	Type	Description
status	string	The payment verification response's status. Possible values are: Successful,Failed,Unknown

In case of Unknown status, you must inquiry the order later.

Possible Status and Error Codes:

401
- token.verification.failed: When the token verification fails.
- user.not.authenticated: When the merchant is not authenticated.

404
- merchant.not_found: The merchant not found.
- web.no_handler: When the requested address is invalid.

405
- web.method_not_allowed: The HTTP method not supported on the resource.

406
- web.not_acceptable: When the Accept header is invalid.

500
- service.internal_error: When we fail to handle the request.

Inquiry Order

Merchant can inquiry an order by the orderIdentifier.

GET /orders/{orderIdentifier}

Request Header Parameters

Parameter	Type	Required	Description
Authorization	Bearer accessToken	Yes	Encapsulates the access token of merchant
Accept	application/json, */*	No	Indicates the requested content type of response which is JSON
Accept-Language	en, fa	No	Indicates the preferred language of error messages

Response Body Parameters

Parameter	Type	Description
id	string	Hashed order identifier
amount	long	The amount of order
currency	string	Represents the currency type. Possible values are TOMAN, RIALS
referenceNumber	string	A string value from merchant side to trace order in our system
userIdentifier	string	Identifies the user in the merchant system
callbackUrl	string	Represents a callback which we should call in order to notify the merchant about a particular order state. For example, when the user pays the order, we would call this callback and let the merchant know about the payment
description	string	An optional merchant provided description for the order
additionalData	string	An optional additional data provided by the merchant
status	string	Represents the order status. Possible values are: SUCCESS,FAILED,UNKNOWN,EXPIRED,IN_PROGRESS
initPayerIp	string	The IP address of the user calling the payment URL generated by us.
redirectPayerIp	string	The IP address of the user reported by the PSP.
createdAt	ISO Date	When the order created? ex: 2020-06-10T15:50:55.247079Z
modifiedAt	ISO Date	When was the last modification date? ex: 2020-06-10T18:50:55.247079Z
expirationDate	ISO Date	When tha order gets expired? ex: 2020-06-10T18:50:55.247079Z
payerCard	string	Masked bank card number used to do the transaction
nationalCode	string	National code provided

In case of UNKNOWN and IN_PROGRESS status, you must inquiry the order again later.

Possible Status and Error Codes:

401
- token.verification.failed: When the token verification fails.

404
- merchant.not_found: The merchant not found.
- web.no_handler: When the requested address is invalid.

405
- web.method_not_allowed: The HTTP method not supported on the resource.

406
- web.not_acceptable: When the Accept header is invalid.

500
- service.internal_error: When we fail to handle the request.

Orders List

To get the list of all orders created use this end point.

GET /orders

Request Header Parameters

Parameter	Type	Required	Description
Authorization	Bearer accessToken	Yes	Encapsulates the access token of merchant
Accept	application/json, */*	No	Indicates the requested content type of response which is JSON
Accept-Language	en, fa	No	Indicates the preferred language of error messages

Query String Parameters

Parameter	Required	Description
status	No	The status of orders to filter
page	No	Page number
size	No	Page size
from	No	Ex. In 2020-06-10T18:50:55.247079Z format
to	No	Ex. In 2020-06-10T18:50:55.247079Z format
status	No	The status of orders to filter

Response Body Parameters

Parameter	Type	Description
pageNumber	long	The page number retrieved
size	long	The page size retrieved
numberOfElemnts	long	The all number of orders available
hasNext	boolean	Has next page or not
hasPrevious	boolean	Has previous page or not
elements	[]InquiryResponse	Array of inquiry response object (See inquiry response)

Possible Status and Error Codes:

401
- token.verification.failed: When the token verification fails.

404
- merchant.not_found: The merchant not found.
- web.no_handler: When the requested address is invalid.

405
- web.method_not_allowed: The HTTP method not supported on the resource.

406
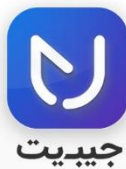- web.not_acceptable: When the Accept header is invalid.

500
- service.internal_error: When we fail to handle the request.

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