

# In-Store API

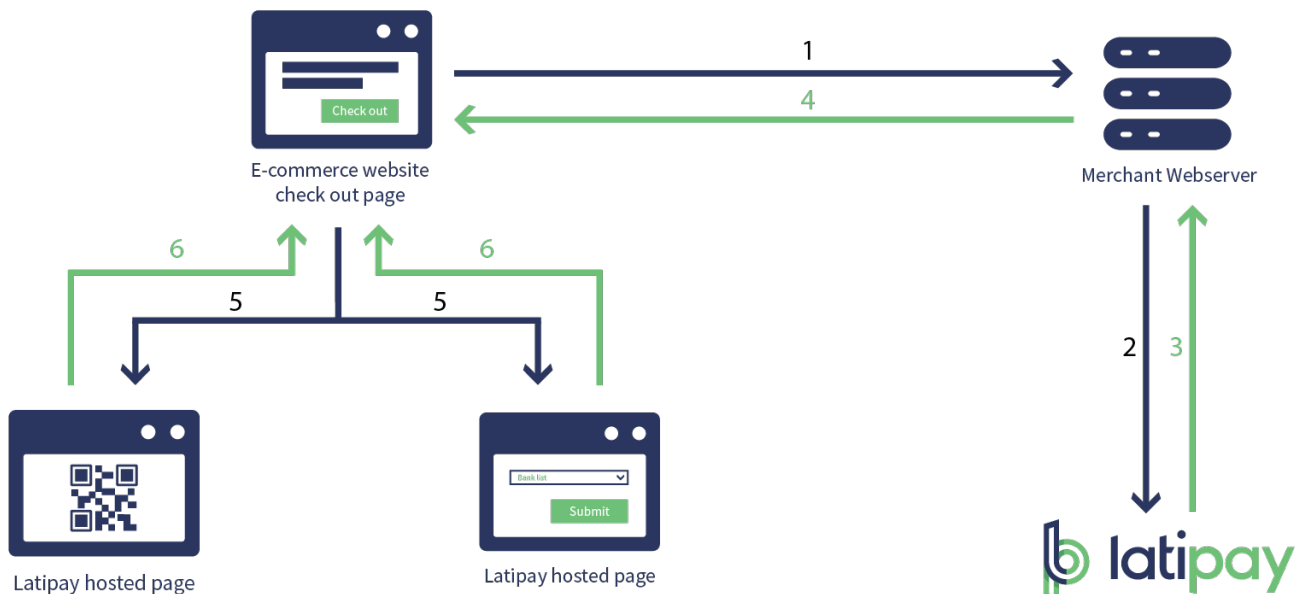
[To check HTML version online](#)

If you want to get QR code `picture` (e.g. for EFTPOS) rather than QR code `text` from Latipay API, please refer to [In-Store API - QR code Picture](https://doc.latipay.net/v2/in-store-qr-code-picture.html). And this document is only suitable for the following `in-store` situation.

- The customer scans `Alipay payment QR code` through `Alipay app` .
- or the customer scans `Wechat payment QR code` through `Wechat app` .
- or the customer scans QR code to load a webpage inside of `Alipay app's browser` and pays through `Alipay app` .
- or the customer scans QR code (with iPhone Camera app) to load a webpage on `mobile browser` and pays through `Alipay app` .

## How it works?

### Latipay's web page presenting QR code



1. To process a transaction, customers select `alipay` , or `wechat` as an **in-store** payment method in website, e.g. in E-commerce website.

2. The **merchant's** E-commerce server sends a transaction request [#Transaction Interface](#) to **Latipay** with the authentication and order details.
3. **Latipay** responds with a `host_url` and `nonce` .
4. The **merchant's** server redirect the website to the `host_url` with `nonce` as parameter. [#Payment Interface](#)
5. The customer will be prompted to a page which requires to `scan the QR code` with Alipay or Wechat app and complete the payment.
6. The result of payment is displayed in **merchant's** website or **merchant's** terminal/device in-store.

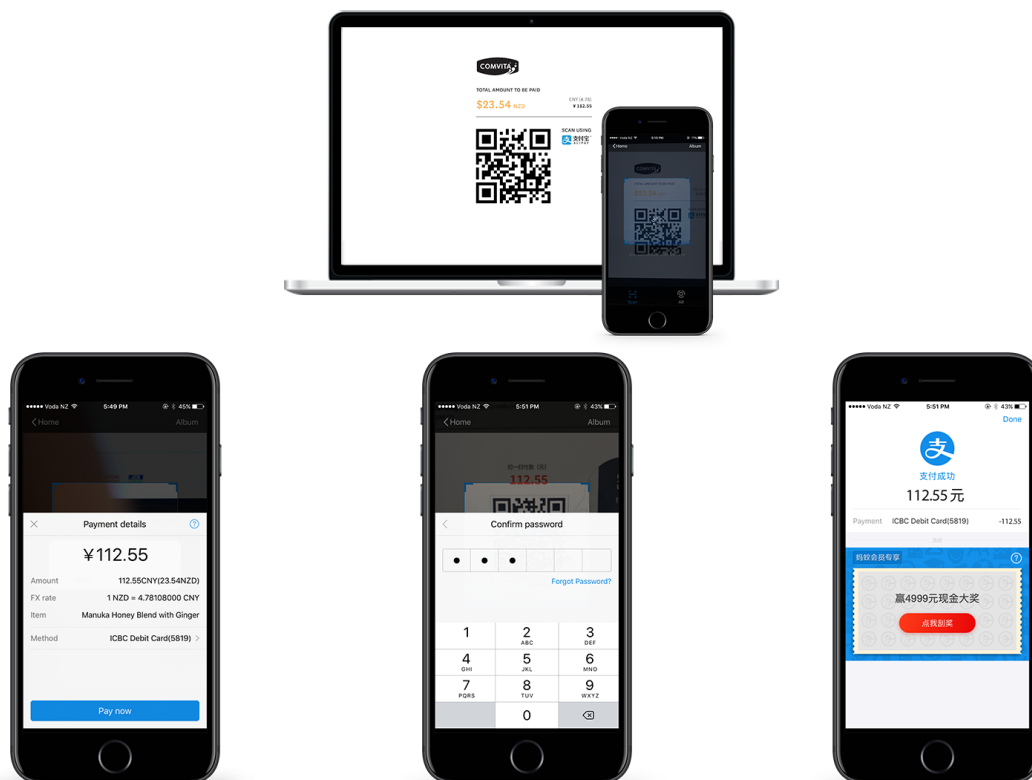
## Merchant digital platform presenting QR code

**Merchant** server loads `host_url` with `nonce` as parameter and gets the QR code text. Then **Merchant** `generates QR Code picture from the text` and display it in web page or other digital platform. The customer scans the QR code with Alipay or Wechat app and complete the payment.

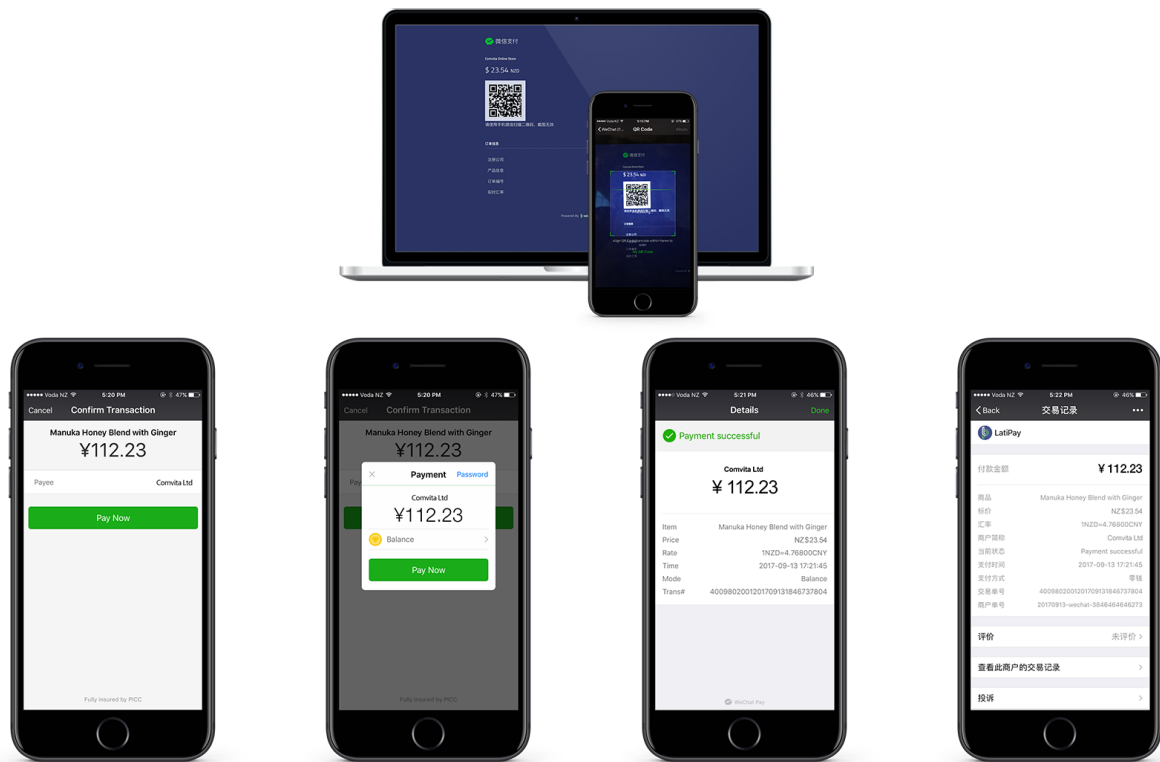
## Payment Scenarios

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### Alipay



## WeChat Pay



## API List

### Preparation

Before using the following API, please make sure you have `user_id`, `wallet_id` and `api_key` on hand. If you don't have them, we would like to help you. [Contact Us](#).

### Transaction Interface

Create a latipay transaction is the first step for using alipay or wechat pay.

```
POST https://api.latipay.net/v2/transaction
```

### Parameters

| Name               | Type   | Description   | Nullable |
|--------------------|--------|---|----------|
| user_id            | String | The user account you want to use to process the transaction.  | No       |
| wallet_id          | String | The ID of the wallet you want to use.   | No       |
| payment_method     | String | Payment method options are <code>wechat</code> and <code>alipay</code> .  | No       |
| amount             | String | A decimal amount.   | No       |
| return_url         | String | The URL of the landing page where Latipay will return the customer after payment, but it doesn't work in <code>in-store</code> situation. | No       |
| callback_url       | String | The URL of the callback address the transaction notification is sent after payment.   | No       |
| signature          | String | The <code>SHA-256 HMAC</code> API signature.  | No       |
| merchant_reference | String | A field for identifying your transaction.   | No       |
| ip                 | String | The IP address of the customer.   | No       |
| version            | String | The latest version of the platform. must be <code>'2.0'</code>  | No       |
| product_name       | String | The name of the product or service being sold.  | No       |

## Example Parameters

```
{
  "user_id": "U000334333",
  "wallet_id": "W000000001",
  "amount": "120.00",
  "payment_method": "alipay",
  "return_url": "https://merchantsite.com/checkout",
  "callback_url": "https://merchantsite.com/confirm",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
  "merchant_reference": "dsi39ej430sks03",
  "ip": "122.122.122.1",
  "version": "2.0",
  "product_name": "Pinot Noir, Otago"
}
```

## SHA-256 HMAC Signature

```
message: user_id + wallet_id + amount + payment_method + return_url + callback_url
secret: api_key
```

## Example Signature [Try your signature online](#)

```
message: U000000001W000000010.01alipayhttp://merchant.com/returnhttp://merchant.com/callback
secret: 111222333
signature: 2367bcd9e9a2f9a547c85d7545d1217702a574b8084bbb7ae33b45a03a89983
```

## Response

```
{
  "host_url": "https://pay.laticpay.net/pay",
  "nonce": "7d5a88119354301ad3fc250404493bd27abf4467283a061d1ed11860a46e1bf3",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
}
```

| Name      | Type   | Description   |
|-----------|--------|---|
| host_url  | String | The url for request a QR code picture. The nonce should be appended to the end. |
| nonce     | String | The transaction nonce must be appended to the <code>host_url</code> .           |
| signature | String | The <code>SHA-256 HMAC</code> API signature.                                    |

## Signature in Response

For security reasons, we highly recommend you verify the **\*\*signature\*\***.

```
message: nonce + host_url
secret: api_key
```

## Extra Parameters for alipay and wechat

When load the url `{host_url}/{nonce}` in next step [#Payment Interface](#), you will get different result depend on the environment and extra parameter. Please check out the response of [#Payment-Interface](#)

## Payment Interface

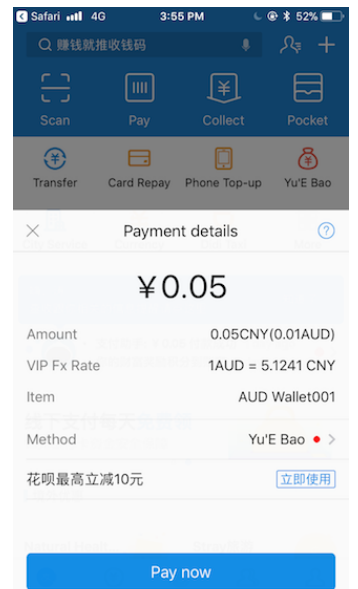
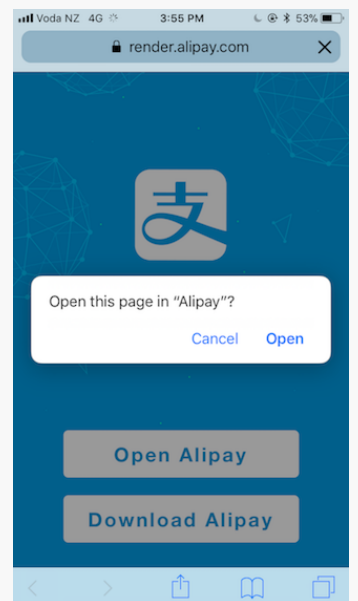
To load the following url in PC browser, mobile browser or Alipay/Wechat's inner browser.



{host\_url}/{nonce}

## Example

https://pay.latipay.net/pay/7d5a88119354301ad3fc250404493bd27abf4467283a061d1ed11860a46e1bf3

## Response, based on Environment and Extra Parameters

| Environment          | Payment Method | Extra Parameters for <a href="#">#Transaction Interface</a> | Response                                | Customer makes payment  |
|----------------------|----------------|---|---|---|
| Alipay inner browser | alipay         | is_staticpay="1"  | Alipay app pay directly                 |   |
| Mobile browser       | alipay         | is_staticpay="1"  | Mobile browser try to launch Alipay app |  |
|                      |                |   |   |   |

|                                 |        |                                  |   |   |
|---------------------------------|--------|----------------------------------|---|---|
| PC<br>browser/Mobile<br>browser | alipay | present_qr="1"<br>is_spotpay="1" | a Latipay webpage<br>which presents QR<br>code which waiting<br>for Alipay app to<br>scan |                                |
| Any                             | alipay | is_spotpay="1"                   | a json contains<br><code>qr_code</code> text  | Merchant backend or<br>frontend needs to<br>generate QR code and<br>display it to customer in<br>digital platform |
| Non Wechat<br>App               | wechat | present_qr="1"                   | a Latipay webpage<br>which presents QR<br>code which waiting<br>for Wechat app to<br>scan |                               |
| Non-Wechat<br>App               | wechat |                                  | a json contains<br><code>code_url</code> text   | Merchant backend or<br>frontend needs to<br>generate QR code and<br>display it to customer in<br>digital platform |

#### Alipay QR code text

```
{
  "qr_code": "https://qr.alipay.com/bax081077lt4kxtaupg00082"
}
```

#### Wechat QR code text

```
{
  "code_url": "weixin://wmpay/bizpayurl?pr=12121312"
}
```

## Payment Result Asynchronous Notification

This is payment result notification sent from Latipay to merchant after the payment is done successfully. There is a re-try mechanism with the notification to ensure the notification could be delivered to the merchant. If you receive callback notification, please send `"sent"` to us. Callback notification can be sent many times until we receive "sent".

```
POST merchant's callback_url
```

### Parameters

| Name               | Type   | Description  |
|--------------------|--------|--|
| transaction_id     | String | A unique transaction identifier generated by Latipay.                                      |
| merchant_reference | String | A field for identifying your transaction.  |
| currency           | String | The currency code of the transaction.  |
| amount             | String | A decimal amount.  |
| payment_method     | String | The payment method used. Possible values are <code>wechat</code> and <code>alipay</code> . |
| status             | String | The status of the transaction. Possible values are: pending, paid, or failed.              |
| pay_time           | String | Show the payment time of the transaction order. <code>UTC/GMT+08:00</code>                 |
| signature          | String | The <code>SHA-256 HMAC</code> API signature.   |

### Example Parameters

```
{
  "transaction_id": "43cb917ff8a6",
  "merchant_reference": "dsi39ej430sks03",
  "amount": "120.00",
  "currency": "NZD",
  "payment_method": "alipay",
  "pay_time": "2017-07-07 10:53:50",
  "status": "paid",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
}
```

### SHA-256 HMAC Signature



Merchant backend need to validate the **\*\*signature\*\*** for protecting against malicious requests.

```
message: merchant_reference + payment_method + status + currency + amount
secret: api_key
```

## Example Signature [Try your signature online](#)

```
message: dsi39ej430sks03alipaypaidNZD120.00
secret: 111222333
signature: 840151e0dc39496e22b410b83058b4ddd633b786936c505ae978fae029a1e0f1
```

## Expected text "sent" in Response's body

```
sent
```

## Synchronous Redirection

There is a sync and front-end payment result redirection sent by Latipay to merchant after the payment is done successfully.

```
Redirect merchant's return_url
```

| Name               | Type   | Description   |
|--------------------|--------|---|
| merchant_reference | String | A field for identifying your transaction.                                     |
| payment_method     | String | The payment method used. Possible values are wechat, alipay.                  |
| status             | String | The status of the transaction. Possible values are: pending, paid, or failed. |
| currency           | String | The currency code of the transaction.   |
| amount             | String | A decimal amount.   |
| signature          | String | <code>The SHA-256 HMAC</code> API signature.                                  |

## Example

```
https://www.merchant.com/latipay?merchant_reference=dsi39ej430sks03&payment_method=alipay&status=paid&currency=NZD&amount=100.00&signature= 14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3
```

## SHA-256 HMAC Signature

Merchant frontend need to validate the signature for protecting against malicious requests.

```
message: merchant_reference + payment_method + status + currency + amount
secret: api_key
```

### Example Signature [Try your signature online](#)

```
message: dsi39ej430sks03alipaypaidNZD120.00
secret: 111222333
signature: 840151e0dc39496e22b410b83058b4ddd633b786936c505ae978fae029a1e0f1
```

## Payment Result Interface

All customers can send request to search their transaction order by merchant order id(that should be unique id for the merchant) as merchant\_reference by HTTP GET request.

```
GET https://api.latipay.net/v2/transaction/{merchant_reference}
```

### Parameters

| Name      | Type   | Description  |
|-----------|--------|--|
| user_id   | String | The user account you want to use to process the transaction. |
| signature | String | The <code>SHA-256 HMAC</code> API signature.                 |

## SHA-256 HMAC Signature

```
message: merchant_reference + user_id
secret: api_key
```

### Response

| Name               | Type   | Description  |
|--------------------|--------|--|
| transaction_id     | String | A unique transaction identifier generated by Latipay.                                      |
| merchant_reference | String | A field for identifying your transaction.  |
| currency           | String | The currency code of the transaction.  |
| amount             | String | A decimal amount.  |
| payment_method     | String | The payment method used. Possible values are <code>wechat</code> and <code>alipay</code> . |
| status             | String | The status of the transaction. Possible values are: pending, paid, or failed.              |
| pay_time           | String | Show the payment time of the transaction order. <code>UTC/GMT+08:00</code>                 |
| signature          | String | The <code>SHA-256 HMAC</code> API signature.   |

## Example

```
{
  "transaction_id": "20170707-wechat-3473511594933",
  "merchant_reference": "dsi39ej430sks03",
  "currency": "AUD",
  "amount": "120.00",
  "payment_method": "wechat",
  "status": "paid",
  "pay_time": "2017-07-07 10:53:50",
  "signature": "14d5b06a2a5a2ec509a148277ed4cbeb3c43301b239f080a3467ff0aba4070e3",
}
```

## Signature in Response

For security reasons, we highly recommend you verify the **\*\*signature\*\***.

```
message: merchant_reference + payment_method + status + currency + amount
secret: api_key
```

## Example Signature [Try your signature online](#)

```
message: dsi39ej430sks03alipaypaidNZD120.00
secret: 111222333
signature: 840151e0dc39496e22b410b83058b4ddd633b786936c505ae978fae029a1e0f1
```

