

# Pinelabs PHP/Laravel SDK Integration

This document explains the integration process of the Pinelabs PHP SDK for your PHP applications

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## Installation Process

This section explains the installation flow of the PHP/Laravel SDK for Pinelabs.

### Prerequisites

Before installing the PHP library, make sure you meet the following prerequisites:

- PHP version 7.4 or higher, up to 8.1

### Installation

If your project uses Composer for managing dependencies, you can easily install the PHP library by following these steps:

1. Open your terminal or command prompt.
2. Navigate to your project's root directory where your `composer.json` file is located.
3. Run the following Composer command to install the PHP library:

**`composer require pinelabs/php`**

To locally add a PHP library to your `composer.json` file, follow these steps:

1. Download the PHP library and place it in a directory within your project. You can obtain the library files from a source like GitHub, or by downloading a release archive.
2. In your PHP library, make sure it has an autoloading mechanism defined, usually within a `composer.json` file. This is important to ensure that Composer can autoload the library's classes. An example `composer.json` file for the library might look like this:

```
{
  "name": "vendor-name/library-name",
  "autoload": {
    "psr-4": {
      "VendorName\\LibraryName\\": "src/"
    }
  }
}
```

3. Open your project's `composer.json` file and add a reference to the locally downloaded library. To do this, you can use the `path` repository type. Add a `repositories` section and specify the local path to the library, like this:

```
{
  "repositories": [
    {
      "type": "path",
      "url": "relative/path/to/library"
    }
  ],
  "require": {
    "vendor-name/library-name": "*"
  }
}
```

Example file using pinelab sdk

```
"repositories": [
  {
    "type": "path",
    "url": "./pinelab-sdk",
  }
],
"require": {
  "pinelabs/php": "@dev"
}
```

Replace **"relative/path/to/library"** with the actual path to the directory where the library is located within your project.

4. After updating your project's **composer.json** file, open your terminal or command prompt, navigate to your project's root directory (where the **composer.json** file is located), and run:

```
composer update
```

The composer will update the **composer.lock** file and autoload your locally added library.

## Feature Provided by the SDK

The Pinelabs PHP library provides a set of features for integrating Pinelabs payment services into your application. Here are the supported features and some important information regarding its usage:

### Supported Features

1. **Create Order:** You can use this feature to create orders for your customers, which can include product details, prices, and other relevant information required for payment processing.

2. **Fetch Order:** This feature allows you to retrieve information about existing orders. You can use it to check the status of an order or retrieve order details.
3. **EMI Calculator:** The library includes an EMI calculator, which can help your customers determine their Equated Monthly Installment (EMI) based on the payment amount, interest rate, and tenure.
4. **Hash Verification:** You can verify the integrity and authenticity of data received from Pinelabs using hash verification, ensuring the security of your transactions.

## API Endpoint Information:

Here are the API endpoints for Pinelabs in both UAT (User Acceptance Testing) and production environments:

- **UAT (User Acceptance Testing) Environment:**  
**Base URL:** <https://uat.pinepg.in/api/>
- **Production Environment:**  
**Base URL:** <https://pinepg.in/api/>

## Test Credentials

Here are the test merchant details that you can use for your Pinelabs integration in a PHP application. These details include the merchant ID, API access code, secret key, and a flag for test mode:

```
$merchantId = "106600";  
$apiAccessCode = "bcf441be-411b-46a1-aa88-c6e852a7d68c";  
$secret = "9A7282D0556544C59AFE8EC92F5C85F6";  
$isTestMode = true; // Set to false for production (default is false)
```

## Code Implementation

To create an API instance using the provided test merchant details, you can use the following code in your PHP application:

```
use \Pinelabs\Php\API;  
$api = new API($merchantId, $apiAccessCode, $secret, $isTestMode);
```

## 1. Create Order API Payload

```
Txn (Order) Data ( Mandatory )  
```php  
$txn_data = [  
    'txn_id' => 'orderId12345',    //Mandatory (unique id)  
    'callback' => 'https://httpbin.org/post',    //Mandatory  
    'amount_in_paisa' => "10000" // Mandatory   ( amount in paisa )  
];  
```
```

```
Customer Details ( Optional )  
```php  
$customer_data = [  
    'customer_id' => 'custId123',    // Optional  
    'first_name' => 'Ramsharan',    // Optional  
    'last_name' => 'Yadav',    // Optional  
    'email_id' => 'ramsharan@mcsam.in',    // Optional  
    'mobile_no' => '7737291210'    // Optional  
];  
```
```

```
Billing Details ( Optional )  
```php  
$billing_data = [  
    'address1' => 'mcsam',    // Optional  
    'address2' => 'mm tower',    // Optional  
    'address3' => 'sector 18',    // Optional  
    'pincode' => '122018',    // Optional  
    'city' => 'Gurgaon',    // Optional  
    'state' => 'Haryana',    // Optional  
    'country' => 'India',    // Optional  
];  
```
```

```
Shipping Details ( Optional )
```

```

```php
$shipping_data = [
    'first_name' => 'Ramsharan', // Optional
    'last_name' => 'Yadav', // Optional
    'mobile_no' => '7737291210', // Optional
    'address1' => 'mcsam', // Optional
    'address2' => 'mm tower', // Optional
    'address3' => 'sector 18', // Optional
    'pincode' => '122018', // Optional
    'city' => 'Gurgaon', // Optional
    'state' => 'Haryana', // Optional
    'country' => 'India', // Optional
];
```

```

Udf Fields ( Optional )

```

```php
$udf_data = [
    'udf_field_1' => 'udf1', // Optional
    'udf_field_2' => 'udf2', // Optional
    'udf_field_3' => 'udf3', // Optional
    'udf_field_4' => 'udf4', // Optional
    'udf_field_5' => 'udf5', // Optional
];
```

```

Payment Mode ( Mandatory )

```

```php
$payment_modes = [
    'cards' => true,
    'netbanking' => true,
    'wallet' => true,
    'upi' => true,
    'emi' => false,
    'debit_emi' => false,
    'cardless_emi' => false,
    'bnpl' => false,
    'prebooking' => false,
];
// Mandatory

```

```
// In these payment modes, the merchant can choose multiple modes which
should be enabled on his merchant ID.
```

```
***
```

Product Details (Optional)

```
```php
```

```
$products_data = [
    [
        "product_code" => "testproduct02", // Optional
        "product_amount" => 10000 // Optional
    ],
    .....
];
// Accept multiple Array
***
```

## Create Payment Link

Create a payment

```
```php
```

```
$response = $api->Payment()->Create($txn_data, $customer_data,
$billing_data, $shipping_data, $udf_data, $payment_modes, $products_data);
echo '<pre>'; print_r($response); die;
***
```

## Success Response

```
``` php
```

```
{"status":true,"token":"S01P3444qQM33XTlDJxg70bAj9II6AELtgU%2fNsFddGulYw%3d",
"redirect_url":"https://uat.pinepg.in/pinepg/v2/process/payment?token=S01P3444qQM33XTlDJxg70bAj9II6AELtgU%2fNsFddGulYw%3d"}
***
```

## Failure Response

```
Array (
    [status] => false
    [message] => Something went wrong
    [response_code] => -1
)
```

## 2. Fetch Order API Payload

### Fetch Transaction details Request Body

```
Order Id ( Mandatory )
```php
$orderId = "orderId12345";

// The order ID which was sent by the user as unique transaction ID while
creating the order will be passed here.
```
```

```
Fetch a payment
```php
$response = $api->Payment()->Fetch($orderId);

echo '<pre>'; print_r($response); die;
```
```

### Success Response

```
```php
{"ppc_MerchantID":"106600","ppc_MerchantAccessCode":"bcf441be-411b-46a1-aa
88-c6e852a7d68c","ppc_PinePGTxnStatus":"7","ppc_TransactionCompletionDateT
ime":"20\09\2023 04:07:52
PM","ppc_UniqueMerchantTxnID":"650acb67d3752","ppc_Amount":"1000","ppc_Txn
ResponseCode":"1","ppc_TxnResponseMessage":"SUCCESS","ppc_PinePGTransactio
nID":"12069839","ppc_CapturedAmount":"1000","ppc_RefundedAmount":"0","ppc_
AcquirerName":"BILLDESK","ppc_DIA_SECRET":"D640CFF0FCB8D42B74B1AFD19D97A37
5DAF174CCBE9555E40CC6236964928896","ppc_DIA_SECRET_TYPE":"SHA256","ppc_Pay
mentMode":"3","ppc_Parent_TxnStatus":"4","ppc_ParentTxnResponseCode":"1","
ppc_ParentTxnResponseMessage":"SUCCESS","ppc_CustomerMobile":"7737291210",
"ppc_UdfField1":"","ppc_UdfField2":"","ppc_UdfField3":"","ppc_UdfField4":
","ppc_AcquirerResponseCode":"0300","ppc_AcquirerResponseMessage":"NA"}
```
```



## Failure Response

```
{
    "Status":false,
    "message":"INVALID DATA",
    "response_code":"-40"
}
```

IF Merchant Details Incorrect Then Return Response

```
```php
"IP Access Denied"
```
```

## 3. Fetch EMI Offers API

### Request Body Payload

Txn (Order) Data ( Mandatory )

```
```php
$txn_data = [
    'amount_in_paisa' => "10000" // Mandatory ( amount in paisa ) and sum
of product amount
];
```
```

Product Details (Optional)

```
```php
$products_data = [
    [
        "product_code" => "testproduct02", // Mandatory
        "product_amount" => 10000 // Mandatory
    ]
];

// Accept only one Array
```
```

## Call EMI Calculator

```
```php
$response = $api->EMI()->Calculator($txn_data, $products_data);

echo '<pre>'; print_r($response); die;
```
```

## Success Response

```
```php
{"issuer":[{"list_emi_tenure":[{"offer_scheme":{"product_details":[{"schemes":[],"product_code":"testproduct02","product_amount":10000,"subvention_cashback_discount":0,"product_discount":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_type":3,"bank_interest_rate_percentage":150000,"bank_interest_rate":251}],"emi_scheme":{"scheme_id":48040,"program_type":105,"is_scheme_valid":true}},{"tenure_id":"3","tenure_in_month":"3","monthly_installment":3417,"bank_interest_rate":150000,"interest_pay_to_bank":251,"total_offered_discount_cashback_amount":0,"loan_amount":10000,"auth_amount":10000}],"offer_scheme":{"product_details":[{"schemes":[],"product_code":"testproduct02","product_amount":10000,"subvention_cashback_discount":0,"product_discount":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_type":3,"bank_interest_rate_percentage":150000,"bank_interest_rate":440}],"emi_scheme":{"scheme_id":48040,"program_type":105,"is_scheme_valid":true}},{"tenure_id":"6","tenure_in_month":"6","monthly_installment":1740,"bank_interest_rate":150000,"interest_pay_to_bank":440,"total_offered_discount_cashback_amount":0,"loan_amount":10000,"auth_amount":10000}],"offer_scheme":{"product_details":[{"schemes":[],"product_code":"testproduct02","product_amount":10000,"subvention_cashback_discount":0,"product_discount":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"subvention_type":3,"bank_interest_rate_percentage":150000,"bank_interest_rate":629}],"emi_scheme":{"scheme_id":48040,"program_type":105,"is_scheme_valid":true}},{"tenure_id":"9","tenure_in_month":"9","monthly_installment":1181,"bank_interest_rate":150000,"interest_pay_to_bank":629,"total_offered_discount_cashback_amount":0,"loan_amount":10000,"auth_amount":10000}],"offer_scheme":{"product_details":[{"schemes":[],"product_code":"testproduct02","product_amount":10000,"subvention_cashback_discount":0,"product_discount":0,"subvention_cashback_discount_percentage":0,"product_discount_percentage":0,"bank_interest_rate_percentage":0,"bank_interest_rate":0}],"emi_scheme":{"sche
```

```
me_id":48040,"program_type":105,"is_scheme_valid":true}},{"tenure_id":"96",
"tenure_in_month":"1","monthly_installment":0,"bank_interest_rate":0,"inte
rest_pay_to_bank":0,"total_offered_discount_cashback_amount":0,"loan_amou
nt":10000,"auth_amount":10000}],{"issuer_name":"HDFC","is_debit_emi_issuer"
:false},{
"list_emi_tenure":[{"offer_scheme":{"product_details":[{"schemes"
:[],"product_code":"testproduct02","product_amount":10000,"subvention_cash
back_discount":0,"product_discount":0,"subvention_cashback_discount_perce
ntage":0,"product_discount_percentage":0,"subvention_type":3,"bank_interest
_rate_percentage":140000,"bank_interest_rate":233}],{"emi_scheme":{"scheme_
id":48048,"program_type":105,"is_scheme_valid":true}},{"tenure_id":"3","ten
ure_in_month":"3","monthly_installment":3411,"bank_interest_rate":140000,"
interest_pay_to_bank":233,"total_offered_discount_cashback_amount":0,"loa
n_amount":10000,"auth_amount":10000},{
"offer_scheme":{"product_details":[{"schemes":[{"schemes":[],"product_code":"testproduct02","product_amount":10000,"subven
tion_cashback_discount":0,"product_discount":0,"subvention_cashback_discou
nt_percentage":0,"product_discount_percentage":0,"subvention_type":3,"bank
_interest_rate_percentage":150000,"bank_interest_rate":440}],{"emi_scheme":
{"scheme_id":48048,"program_type":105,"is_scheme_valid":true}},{"tenure_id"
:"6","tenure_in_month":"6","monthly_installment":1740,"bank_interest_rate"
:150000,"interest_pay_to_bank":440,"total_offered_discount_cashback_amoun
t":0,"loan_amount":10000,"auth_amount":10000},{
"offer_scheme":{"product_de
tails":[{"schemes":[{"schemes":[],"product_code":"testproduct02","product_amo
unt":10000,"subvention_cashback_discount":0,"product_discount":0,"subvention_cashba
ck_discount_percentage":0,"product_discount_percentage":0,"subvention_type
":3,"bank_interest_rate_percentage":140000,"bank_interest_rate":584}],{"emi
_scheme":{"scheme_id":48048,"program_type":105,"is_scheme_valid":true}},{"t
enure_id":"9","tenure_in_month":"9","monthly_installment":1176,"bank_inter
est_rate":140000,"interest_pay_to_bank":584,"total_offered_discount_cashb
ack_amount":0,"loan_amount":10000,"auth_amount":10000},{
"offer_scheme":{"p
roduct_details":[{"schemes":[{"schemes":[],"product_code":"testproduct02","p
roduct_amount":10000,"subvention_cashback_discount":0,"product_discount":0,"subventi
on_cashback_discount_percentage":0,"product_discount_percentage":0,"subven
tion_type":3,"bank_interest_rate_percentage":150000,"bank_interest_rate":8
24}],{"emi_scheme":{"scheme_id":48048,"program_type":105,"is_scheme_valid":
true}},{"tenure_id":"12","tenure_in_month":"12","monthly_installment":902,"
bank_interest_rate":150000,"interest_pay_to_bank":824,"total_offered_disc
ount_cashback_amount":0,"loan_amount":10000,"auth_amount":10000},{
"offer_s
cheme":{"product_details":[{"schemes":[{"schemes":[],"product_code":"testproduct02","p
roduct_amount":10000,"subvention_cashback_discount":0,"product_discount":0
,"subvention_cashback_discount_percentage":0,"product_discount_percentage"
```

```

:0,"bank_interest_rate_percentage":0,"bank_interest_rate":0}], "emi_scheme"
:{"scheme_id":48048,"program_type":105,"is_scheme_valid":true}}, "tenure_id
":"96","tenure_in_month":"1","monthly_installment":0,"bank_interest_rate":
0,"interest_pay_to_bank":0,"total_offerred_discount_cashback_amount":0,"lo
an_amount":10000,"auth_amount":10000}], "issuer_name":"ICICI","is_debit_emi
_issuer":false}, {"list_emi_tenure":[{"offer_scheme":{"product_details":[{"
schemes":[], "product_code":"testproduct02", "product_amount":10000, "subvent
ion_cashback_discount":0, "product_discount":0, "subvention_cashback_discount
_percentage":0, "product_discount_percentage":0, "bank_interest_rate_percent
age":0, "bank_interest_rate":0}], "emi_scheme":{"scheme_id":48043, "program_
type":105, "is_scheme_valid":true}}, "tenure_id":"96", "tenure_in_month":"1",
"monthly_installment":0, "bank_interest_rate":0, "interest_pay_to_bank":0, "t
otal_offerred_discount_cashback_amount":0, "loan_amount":10000, "auth_amount
":10000}], "issuer_name":"Kotak
Debit", "is_debit_emi_issuer":true}], "response_code":1, "response_message":"
SUCCESS"}
```

```

## Failure Response

```

{
  "status":false,
  "message":"Something went wrong",
  "response_code":-40
}

```

## 4. Hash Verification API

### Hash verification API required two Parameters

1. Received Hash
2. Callback Response

```

Hash ( Mandatory )
```php
$receviedHash = "475373549378937GJDFJGD8456834XCJBXJ4538VB67485";

// The hash received in response from Pinelabs.
```

```

Response Send In verify request for create a new hash ( Mandatory )

```

```php

//After removing the hash and the hash type from the response received
from Pinelabs, we will send the response to the entity specified in the
request hash.

// Sample Callback Response
$requestData = Array
(
    [merchant_id] => 106600
    [merchant_access_code] => bcf441be-411b-46a1-aa88-c6e852a7d68c
    [unique_merchant_txn_id] => 650c8d8ea61a0
    [pine_pg_txn_status] => 4
    [txn_completion_date_time] => 22/09/2023 12:08:29 AM
    [amount_in_paisa] => 10000
    [txn_response_code] => 1
    [txn_response_msg] => SUCCESS
    [acquirer_name] => BILLDESK
    [pine_pg_transaction_id] => 12072123
    [captured_amount_in_paisa] => 10000
    [refund_amount_in_paisa] => 0
    [payment_mode] => 3
    [mobile_no] => 7737291210
    [udf_field_1] =>
    [udf_field_2] =>
    [udf_field_3] =>
    [udf_field_4] =>
    [Acquirer_Response_Code] => 0300
    [Acquirer_Response_Message] => NA
    [parent_txn_status] =>
    [parent_txn_response_code] =>
    [parent_txn_response_message] =>
)
```

```

## Code

```

Verify Hash
```php

```

```
$varify = $api->Hash()->Verify($receivedHash, $requestData);

echo $varify;
```
```

### Success Response

```
```php
    true
```
```

### Failure Response

```
```php
    false
```
```