

KH NOUSHADUR RAHMAN



Contents

1. Pre-requisites:	
Prepare your developer account and get the client ID and the secret ID	
3. Integrating the library to your Codeigniter.	
4. Available Functions	
5. Sample Code	
-	
5.1 For a recurring payment (Subscription)	
5.2 For a PayPal checkout	
6. Add money to your sandbox account	14

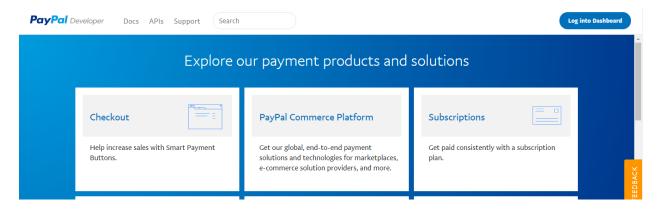
1. Pre-requisites:

- 1. A PayPal account (sandbox [https://www.sandbox.paypal.com] or live).
- 2. A PayPal developer account.
- 3. Client ID and Secret ID for a particular app.

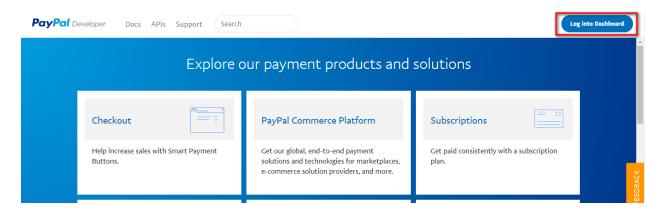
Note: It's always recommended to use the PayPal sandbox account (a demo PayPal account) at initial stage for testing purpose.

2. Prepare your developer account and get the client ID and the secret ID

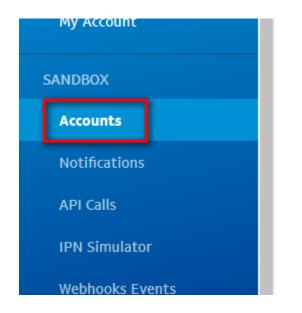
Step 1: Go to the https://developer.paypal.com/



Step 2: Click the button "Log into Dashboard" and log into the dashboard using your credentials.



Step 3: Click the menu "Accounts" under the sandbox.



Step 4: Click the button "Create Account"

Sandbox Acco

Questions? Check out the Testin;

To link your sandbox account to y credentials.



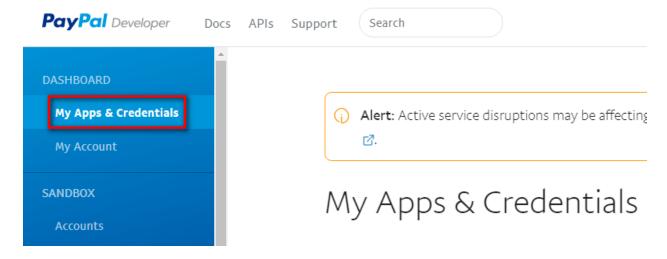
evelopers should read our FAQ.

ount, log in with PayPal and provide your sandbox account

Step 5: Provide the all information for creating a merchant (business) account. Here, for account type, select the option "Business (Merchant Account)". And the email section you may use your original email account or an arbitrary email address. And provide an arbitrary amount in PayPal Balance field.

Account Type	
Personal (Buy	er Account)
Business (Mer	chant Account)
Email Address	
Payment M	lethods
	Provide an arbitrary value here
ayPal Balance	.00 USD
0	

Step 6: Click the menu "My Apps & Credentials".



Step 7: Click the button "Create App".

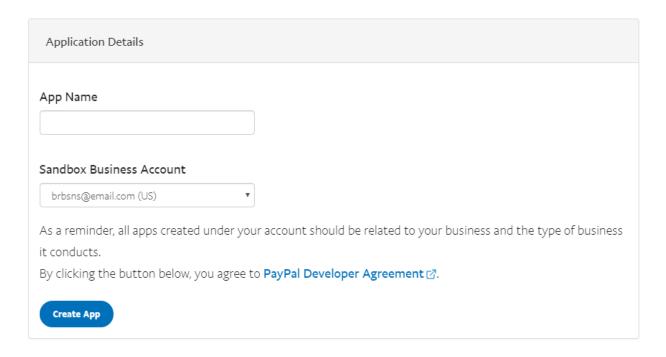
REST API apps

Create an app to receive REST API credentials for testing and live transactions.

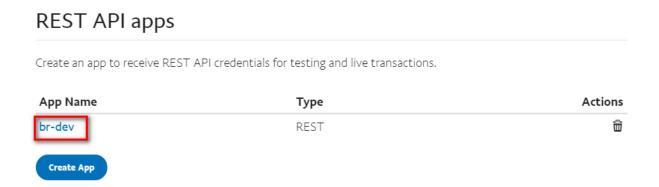
App Name Type



Step 8: Provide an app name and select a sandbox business account (if an account has been already created successfully then it will be listed here). Next, click the create app button.



Step 9: After creating the app you will be redirected to the "My apps and Credentials" menu. Click the name of the app you have created just now. For an example, here my app name is "brdev".



Step 10: After clicking you will get your sandbox client ID. For live, click the Live and follow those procedure.

br-dev

App display name: br-dev

Sandbox API CREDENTIALS

Sandbox account

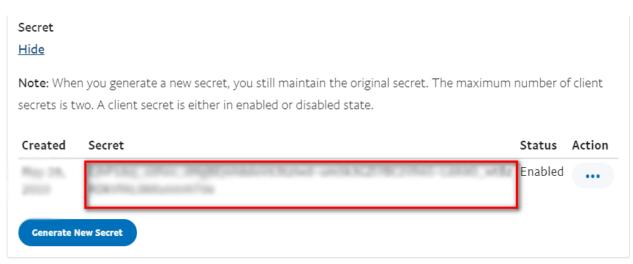
brbsns@email.com

Step 11: Click the "Show" link under the secret section, you will get the client secret ID.



Client ID

Secret Show



3. Integrating the library to your Codeigniter.

Step 1: Merge the collected application folder to your Codeigniter folder or just simply copy the application folder and paste it to your Codeigniter project. The PayPal integration application folder tree looks like this:-

```
-config
-controllers
libraries
third_party
L---PayPal-PHP-SDK
        -composer
         paypal
               est-api-sdk-php
                   .github
                    lib
                            -Api
                            Auth
                            Cache
                            Converter
                            Exception
                            -Handler
                            Log
                            Security
                            Transport
                            Validation
        psr log psr Log Test
views
```

Step 2: Go to the folder "application/config" and open up the file paypal.php. Here, you will provide your client ID, secret ID, mode (sandbox or live) and the currency code you want to use. To show the list of currency code, follow the link -

https://developer.paypal.com/docs/api/reference/currency-codes/

```
1. $config['mode'] = "sandbox"; //for live account use the key "live"
2. $config['client_id'] = '[Your client ID]';
3. $config['client_secret'] = '[Your secret ID]';
4. $config['currency'] = 'USD';
```

Note: All are mandatory.

Done, your library integration successfully completed. To check it, please route to the Payment controller. For an example, if you use localhost then go to:

http://localhost/[yourProjectFolder]/index.php/payment

4. Available Functions

All available functions you will get in "application/libraries/Paypal.php". And everything is well described at the beginning or inside of the each function like the code below:-

```
1. /* Creates a billing plan. In the JSON request body, include the plan details. A plan m
   ust include at least one regular payment definition and, optionally, a trial payment de
   finition. Each payment definition specifies a billing period, which determines how ofte
   n and for how long the customer is charged. A plan can specify a fixed or infinite numb
   er of payment cycles. A payment definition can optionally specify shipping fee and tax
   amounts. The default state of a new plan is CREATED. Before you can create an agreement
   from a plan, you must activate the plan by updating its state to ACTIVE.
2.
3. name string required
4. The plan name.
5. Maximum length: 128.
6.
7. description string required
8. The plan description. Maximum length is 127 single-byte alphanumeric characters.
9. Maximum length: 127.
10.
11. type enum required
12. The plan type. Indicates whether the payment definitions in the plan have a fixed numbe
   r of or infinite payment cycles. Value is:
13. FIXED. The plan has a fixed number of payment cycles.
14. INFINITE. The plan has infinite, or 0, payment cycles.
15. Allowed values: FIXED, INFINITE.
16.
17. Maximum length: 20.
18. */
19.
20. public function set plan( $plan name, $plan description, $plan type ){
21.
       $this->plan = new Plan();
22.
       $this->plan->setName($plan name)
23.
24.
               ->setDescription($plan_description)
25.
                ->setType($plan_type);
26.
27.
       return:
28.
29. }
```

5. Sample Code

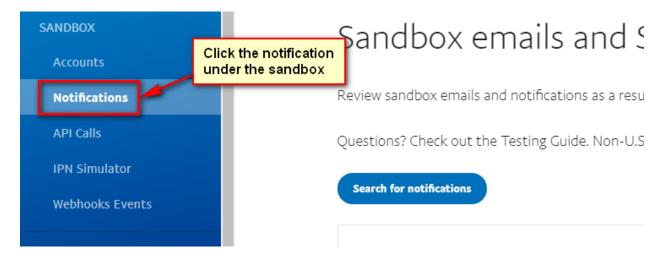
5.1 For a recurring payment (Subscription)

Create a controller named **Payment.php**

```
1. <?php
2. class Payment extends CI_Controller {
3.
        public function __construct(){
4.
5.
            parent::__construct();
6.
            $this->load->library("paypal");
7.
8.
        public function subscribe(){
9.
10.
            if ( !empty($ POST["plan name"]) && !empty($ POST["plan description"]) ) {
11.
12.
13.
                $this->paypal->set_api_context();
14.
15.
                $this->paypal-
    >>set_plan( $_POST["plan_name"], $_POST["plan_description"], "INFINITE" );
16.
17.
                $definition = "Regular Payments";
                          = "REGULAR";
18.
                $type
                $frequency = "MONTH";
19.
20.
                $frequncy_interval = '1';
21.
                cycles = 0;
22.
                $price = "49";
23.
24.
                $this->paypal-
    >set_billing_plan_definition( $definition, $type, $frequency, $frequncy_interval, $cycl
    es, $price );
25.
26.
                $returnurl = base_url()."index.php/payment/success";
                $cancelurl = base_url()."index.php/payment/cancel";
27.
28.
29.
                $this->paypal->set_merchant_preferences( $returnurl, $cancelurl );
30.
31.
                $line1 = "Street - 1, Sector - 1";
                $city = "Dhaka";
32.
33.
                $state = "Dhaka";
34.
                $postalcode = "12345";
35.
                $country = "AU";
36.
37.
                $this->paypal-
    >set_shipping_address( $line1, $city, $state, $postalcode, $country );
38.
39.
                $agreement_name = "Payment Agreement Name";
40.
                $agreement_description = "Payment Agreement Description";
41.
42.
                $this->paypal-
    >create_and_activate_billing_plan( $agreement_name, $agreement_description );
43.
44.
45.
46.
47.
```

```
48.
       //After successfully create an agreement we will be redirected to this function
49.
       public function success(){
50.
           if ( !emptyempty( $_GET['token'] ) ) {
51.
52.
53.
                $token = $_GET['token'];
54.
               $this->paypal->execute_agreement( $token );
55.
56.
57.
58.
           return;
59.
60.
61. }
```

After successfully executing all of those you will be notified on your account. To check notification on developer account follow these steps:-



You will find a notification like this

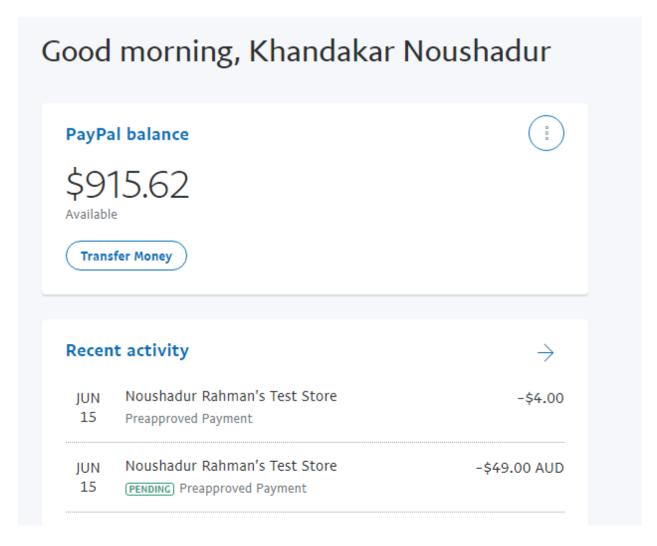
То	Subject	Date
brbsns@email.com	You have a new automatic payment profile for Khandakar Noushadur Rahman	11 Jun 2019 13:26:44

5.2 For a PayPal checkout

Create a controller named Payment.php

```
1. <?php
2. class Payment extends CI_Controller {
3.
4.
       public function __construct(){
            parent::__construct();
5.
            $this->load->library("paypal");
6.
7.
       }
8.
       public function checkout_payment(){
9.
10.
11.
            $this->paypal->set_api_context();
12.
13.
            $payment_method = "paypal";
                         = base_url()."index.php/payment/success_payment";
14.
            $return_url
                            = base_url()."index.php/payment/cancel";
15.
            $cancel_url
16.
            $total
                            = 10;
                            = "Paypal product payment";
17.
            $description
                            = "sale";
18.
            $intent
19.
20.
            $this->paypal->create_payment( $payment_method, $return_url, $cancel_url,
21.
            $total, $description, $intent );
22.
23.
            return;
24.
25.
       }
26.
27.
       //After creating a payment successfully we will be redirected here
28.
       public function success_payment(){
29.
            if ( !empty( $_GET['paymentId'] ) && !empty( $_GET['PayerID'] ) ) {
30.
31.
                $this->paypal->execute_payment( $_GET['paymentId'], $_GET['PayerID'] );
32.
33.
34.
35.
36.
            return;
37.
38.
39. }
40.
```

To check it, go to your PayPal account (sandbox or live). After logging in you will observe that your balance have been subtracted by the price you provided in code and a notification have been arrived in recent activity. Here is the example of a sandbox account.

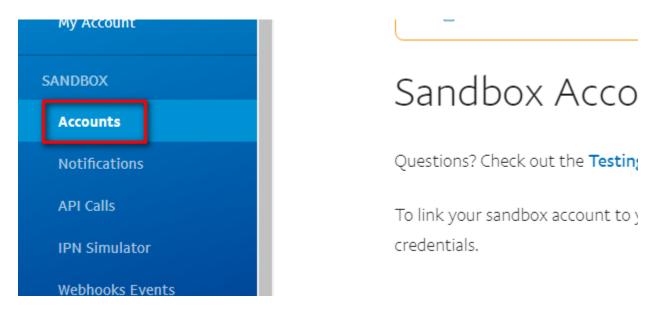


And if you observe your merchant account profile then you will see the balance has been increased.

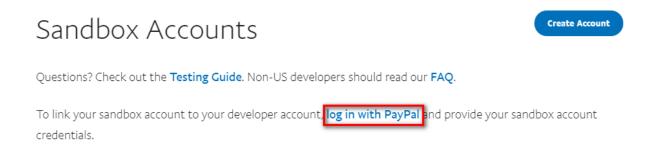
6. Add money to your sandbox account

Step 1: Go to your developer account (https://developer.paypal.com/)

Step 2: Click the Accounts menu under the sandbox section.



Step 3: Click the link "log in with PayPal" and complete the further procedure.



After that, you will see your sandbox account has been listed successfully.

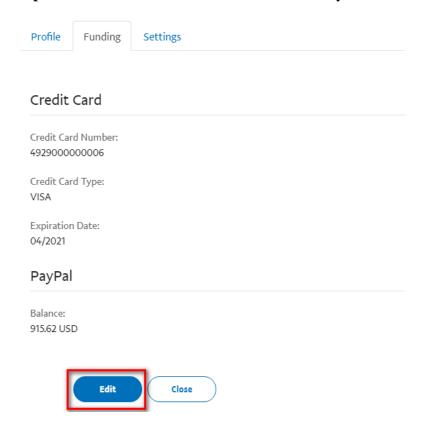
Step 4: Click on the account and click the profile link.



Step 5: Click the funding tab

Account Details Profile Funding Settings First Name: Khandakar Noushadur

Step 6: Click the edit button and enter the amount you want to add then save it.



Step 7: Go to your sandbox account (https://www.sandbox.paypal.com) and check the balance.

To know more about PayPal API:

https://developer.paypal.com/docs/api/overview/