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PayPal Setup

Setup a PayPal Developer Account

- Navigate to: <https://developer.paypal.com/>
- Click on "Log into Dashboard" button visible on the Top Right of the screen.
- Either Signup for a new account or login with an existing account

Create Sandbox (Test) accounts

- Login to Developer account dashboard.
- Navigate to "Sandbox -> Accounts" (visible on the left-hand side) and create test accounts for seller and buyer by selecting Business and Personal respectively.

Note: By default, PayPal creates test accounts for you, you can use them as-is, or if for some reason they do not work out of the box, you can always create these accounts and note down their passwords. (Can manage/set the password through the account Profile)

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

- Navigate to "Dashboard -> My Apps & Credentials"
- Click on "Create App"
- Provide a name to your app and link the sandbox business account you created in step 2 above.
- Once the app is created click on the app to reveal the Client ID and the Secret Key. Copy and save this for later use.

Consuming the Online Payment component - PayPal

Following are the methods made available within the EVOKE Online Payment Component (**App.Components.OnlinePayment.PayPal**) for interacting with the PayPal API

renderPayPalButton

Usage

Used to render the PayPal button on the page. Called from the Custom JavaScript for a specific Page Series

Parameters

None

Return Value

None

Example

```
// Custom JavaScript for Page Series: OnlinePayment
App.PageSeries.OnlinePayment.custom = {

  data: { state: {} },

  initialize: function () {
  },

  activated: function (position) {
    if (position == "after") {
      try {
        App.Components.OnlinePayment.PayPal.renderPayPalButton();
      } catch (e) {
        alert(e);
      }
    }
  },

  .... Omitted for brevity
}
```

PayPalOrder

Usage

Used to initialise the PayPal Order request, which will eventually contain the order items, amount totals, shipping details and other PayPal order specific application context information.

Parameters

Name	Data type	Description	Mandatory	Validation
brandName	String	The label that overrides the business name in the PayPal account on the PayPal site.	Yes	Maximum length: 127

Return Value

Returns an initialised PayPal order request object.

Example

```
// Initialise PayPal order request  
var paypalOrderRequest = new App.Components.OnlinePayment.PayPalOrder("EVOKE");
```

addPurchaseItem

Usage

Used to add order/purchase items on to the PayPalOrder request object.

Parameters

Name	Data type	Description	Mandatory	Validation/Notes
currencyCode	String	Three-character ISO-4217 currency codes.	Yes	Minimum length: 3 Maximum length: 3
unitAmount	Number	The item price or rate per unit	Yes	If you specify unit_amount, amountBreakdown.itemTotal is required. Must equal unitAmount * quantity for all items
Quantity	Integer	The item quantity.	No	Must be a whole number. Maximum length: 10
taxAmount	Number	The item tax for each unit.	No	Pass 0 (zero) if no tax If tax is specified, amountBreakdown.taxTotal is required. Must equal (tax * quantity) for all items.
description	String	The detailed item description.	Yes	Maximum length: 127
Name	String	The item name or title.	Yes	Maximum length: 127.
Sku	String	The stock keeping unit (SKU) for the item	No	Pass empty string if no SKU
Category	String	The item category type. The possible values are: DIGITAL_GOODS . Goods that are stored, delivered, and used in their electronic format. PHYSICAL_GOODS . A tangible item that can be shipped with proof of delivery.	Yes	Default value: PHYSICAL_GOODS

Return Value

Returns a PayPal order request object populated with the order/purchase item.

Example

```
// Initialise PayPal order request
var paypalOrderRequest = new App.Components.OnlinePayment.PayPalOrder("EVOKE");

// Add purchase item
paypalOrderRequest.addPurchaseItem(
    "USD",
    Number(pageSeries.viewModel.OrderDetail.UnitPrice),
    Number(pageSeries.viewModel.OrderDetail.Quantity),
    Number(pageSeries.viewModel.OrderDetail.Tax),
    pageSeries.viewModel.OrderDetail.Name,
    pageSeries.viewModel.OrderDetail.ItemName,
    "sku001");
```

addAmountBreakDown

Usage

Used to add the total amount break down for the order/purchase items added to the PayPal order.

Parameters

Name	Data type	Description	Mandatory	Validation/Notes
currencyCode	String	Three-character ISO-4217 currency codes.	Yes	Minimum length: 3 Maximum length: 3
grandTotal	Number	The grand total value of the order.	Yes	Maximum length: 32
itemTotal	Number	The subtotal for all items	Yes	Must equal (unitAmount * quantity) for all items in the order.
taxTotal	Number	The total tax for all items	Yes	Required if the request includes. Must equal the sum of (taxAmount * quantity) for all items in the order
shippingTotal	Number	The shipping fee for all items within a given purchase unit	No	Pass 0 in case no shipping fee
handlingTotal	Number	The handling fee for all items within a given purchase unit	No	Pass 0 in case no handling fee
shippingDiscount	Number	The shipping discount for all items within a given purchase unit	No	Pass 0 in case no shipping discount

Return Value

Returns a PayPal order request object populated with the amount break down.

Example

```
// Initialise PayPal order request
var paypalOrderRequest = new App.Components.OnlinePayment.PayPalOrder("EVOKE");

// Add purchase item
paypalOrderRequest.addPurchaseItem(
    "USD",
    Number(pageSeries.viewModel.OrderDetail.UnitPrice),
    Number(pageSeries.viewModel.OrderDetail.Quantity),
    Number(pageSeries.viewModel.OrderDetail.Tax),
    pageSeries.viewModel.OrderDetail.Name,
    pageSeries.viewModel.OrderDetail.ItemName,
    "sku001");

// Add amount breakdown
paypalOrderRequest.addAmountBreakDown(
    "USD",
    pageSeries.viewModel.OrderDetail.GrandTotal,
    pageSeries.viewModel.OrderDetail.itemTotal,
    pageSeries.viewModel.OrderDetail.taxTotal,
    0,
    0,
    0);
```

addShippingAddress

Usage

Used to add the shipping details to the PayPal order.

Parameters

Name	Data type	Description	Mandatory	Validation/Notes
Name	String	When the party is a person, the party's full name.	Yes	Maximum length: 300
addressLine1	String	The first line of the address	Yes	Maximum length: 300
addressLine2	String	The second line of the address	Yes	Maximum length: 300
City	String	A city, town, or village	Yes	Maximum length: 120
postalCode	String	The postal code, which is the zip code or equivalent.	Yes	Maximum length: 60
State	String	The highest-level sub-division in a country, which is usually a province, state, or ISO-3166-2 subdivision	Yes	
countryISOCode	String	The two-character ISO 3166-1 code that identifies the country or region.	Yes	

Return Value

Returns a PayPal order request object populated with the amount break down.

Example

```
// Initialise PayPal order request
var paypalOrderRequest = new App.Components.OnlinePayment.PayPalOrder("EVOKE");

// Add purchase item
paypalOrderRequest.addPurchaseItem(
    "USD",
    Number(pageSeries.viewModel.OrderDetail.UnitPrice),
    Number(pageSeries.viewModel.OrderDetail.Quantity),
    Number(pageSeries.viewModel.OrderDetail.Tax),
    pageSeries.viewModel.OrderDetail.Name,
    pageSeries.viewModel.OrderDetail.ItemName,
    "sku001");

// Add amount breakdown
paypalOrderRequest.addAmountBreakDown(
    "USD",
    pageSeries.viewModel.OrderDetail.GrandTotal,
    pageSeries.viewModel.OrderDetail.itemTotal,
    pageSeries.viewModel.OrderDetail.taxTotal,
    0,
    0,
    0);

// Add shipping details
this.paypalOrderRequest.addShippingAddress(
    "John Doe",
    "123 Townsend St",
    "Floor 6",
    "San Francisco",
    "94107",
    "California",
    "US");
```

submitOrder

Usage

Submits the order to PayPal for processing.

Parameters

None

Return Value

None.

Example

```
// Initialise PayPal order request
var paypalOrderRequest = new App.Components.OnlinePayment.PayPalOrder("EVOKE");

// Add purchase item
paypalOrderRequest.addPurchaseItem(
    "USD",
    Number(pageSeries.viewModel.OrderDetail.UnitPrice),
    Number(pageSeries.viewModel.OrderDetail.Quantity),
    Number(pageSeries.viewModel.OrderDetail.Tax),
    pageSeries.viewModel.OrderDetail.Name,
    pageSeries.viewModel.OrderDetail.ItemName,
    "sku001");

// Add amount breakdown
paypalOrderRequest.addAmountBreakDown(
    "USD",
    pageSeries.viewModel.OrderDetail.GrandTotal,
    pageSeries.viewModel.OrderDetail.itemTotal,
    pageSeries.viewModel.OrderDetail.taxTotal,
    0,
    0,
    0);

// Add shipping details
this.paypalOrderRequest.addShippingAddress(
    "John Doe",
    "123 Townsend St",
    "Floor 6",
    "San Francisco",
    "94107",
    "California",
    "US");

// Submit order for processing
paypalOrderRequest.submitOrder()
```


updateApplicationConext

Usage

Updates the PayPal Order request application context properties.

Parameters

Name	Data type	Description	Mandatory	Validation/Notes
brandName	String	The label that overrides the business name in the PayPal account on the PayPal site	Yes	Maximum length: 127.
landingPage	String	The type of landing page to show on the PayPal site for customer checkout.	Yes	The possible values are: LOGIN . When the customer clicks PayPal Checkout, the customer is redirected to a page to log in to PayPal and approve the payment. BILLING . When the customer clicks PayPal Checkout, the customer is redirected to a page to enter credit or debit card and other relevant billing information required to complete the purchase. NO_PREFERENCE . When the customer clicks PayPal Checkout, the customer is redirected to either a page to log in to PayPal and approve the payment or to a page to enter credit or debit card and other relevant billing information required to complete the purchase, depending on their previous interaction with PayPal. Default: NO_PREFERENCE .
userAction	String	Configures a Continue or Pay Now checkout flow	Yes	The possible values are: CONTINUE . After you redirect the customer to the PayPal payment page, a Continue button appears. Use this option when the final amount is not known when the checkout flow is initiated and you want to redirect the customer to the merchant page without processing the payment. PAY_NOW . After you redirect the customer to the PayPal payment page, a Pay Now button appears. Use this option when the final amount is known when the checkout is initiated and you want to process the payment immediately when the customer clicks Pay Now. Default: CONTINUE .
shippingPreference	String	The shipping preference.	Yes	The possible values are: GET_FROM_FILE . Use the customer-provided shipping address on the PayPal site.

				<p>NO_SHIPPING. Redact the shipping address from the PayPal site. Recommended for digital goods.</p> <p>SET_PROVIDED_ADDRESS. Use the merchant-provided address. The customer cannot change this address on the PayPal site.</p> <p>Default: GET_FROM_FILE</p>
--	--	--	--	---

Return Value

Returns the order request object with the updated context.

Example

```
paypalOrderRequest.updateApplicationContext("EVOKE", "LOGIN", "PAY_NOW", "NO_SHIPPING");
```

Currency Codes

For more check: <https://developer.paypal.com/docs/api/reference/currency-codes/>

CODE	DESCRIPTION
AUD	Australian dollar
BRL	Brazilian real 2
CAD	Canadian dollar
CZK	Czech koruna
DKK	Danish krone
EUR	Euro
HKD	Hong Kong dollar
HUF	Hungarian forint 1
INR	Indian rupee 3
ILS	Israeli new shekel
JPY	Japanese yen 1
MYR	Malaysian ringgit 2
MXN	Mexican peso
TWD	New Taiwan dollar 1
NZD	New Zealand dollar
NOK	Norwegian krone
PHP	Philippine peso
PLN	Polish złoty
GBP	Pound sterling
RUB	Russian ruble
SGD	Singapore dollar
SEK	Swedish krona
CHF	Swiss franc
THB	Thai baht
USD	United States dollar