

# CAT2 Testing Tool

PayPal Global Services Ltd.

## Braintree

### Introduction

For the Braintree aspect of the CAT2 Testing Tool project we made use of the Braintree APIs and their Dropin fronted to allow for successful API calls on the testing tool. These API calls are used for Sandbox Braintree accounts but it could be tweaked in the future to allow Production Braintree accounts as well. The tool provides a default testing account that the user can make use of or the user can input credentials associated with their own sandbox account.

### List of Braintree APIs available on the tool:

- Generate Client Token
- Transaction: Sale
- Transaction: Refund
- Transaction: Void
- Transaction: Search
- Payment-method: Create
- Payment-method: Update
- Subscription: Create
- Subscription: Update
- Customer: Create
- Customer: Update

### Drop-in & Credentials

The tool makes use of the Drop-in front-end for Braintree, the user has to enter fake credit card details to use the Drop-in and afterwards they can enter their own credentials such as environment, merchantId, publicKey and privateKey using the fields on the site and pressing the submit button.



## PayPal

### Introduction

For the PayPal aspect of the CAT2 Testing Tool project we made use of the REST V2 APIs that we utilized throughout our internship experience. These API calls are used for Sandbox PayPal accounts and the tool provides testing accounts that the user can make use of or the user can input credentials associated with their own sandbox account.

### REST APIs

The different REST APIs that can be used and tested include the Payments, Reference Transactions and Subscriptions groups of APIs these API calls are used to test and emulate the different types transactions the user or merchant can make use of in the Sandbox environment.

### List of PayPal APIs available on the tool:

- Create Order
- Show Order
- Capture Order
- Authorise Order
- Refund
- Create Token
- Show Token
- Create Agreement
- Show Agreement
- Cancel Agreement
- Create Product
- Create Plan
- Activate Plan
- Create Subscription
- Activate Subscription
- Suspend Subscription
- Authorise Subscription



## Usage

### PayPal

To use the PayPal APIs of the CAT2 Testing Tool you will have to first click on credentials and choose one of the testing accounts or use the credentials of your own sandbox account in the field given for it. After choosing/providing credentials the user will have to go to requests->access token and then click the submit button to get the authentication token, otherwise no requests will work.

Once you get the access token back I recommend you to read the documentation for the PayPal REST APIs on: <https://developer.paypal.com>

### Braintree

To use the Braintree APIs of the CAT2 Testing Tool you will have to first use the default credentials or input your own Braintree credentials into the fields provided then click select an API ->Client-Token:Generate and click test transaction and you will get a client token in the response textarea and it will be saved for future use until the browser is closed or the token deprecates in which case you will have to redo this.

Once the client token is obtained the user can utilize any of the APIs available in the CAT2 Tool for Braintree as long as you enter the credentials necessary for each API call such as the amount for Transaction: Sale or planid for Subscription:Create. For further information please visit <https://developer.paypal.com/braintree/docs>.

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**Inspired By:** Orcun Keskins Test tools :)