Paypal Ipn eManual

Wednesday, October 5, 2022

Introduction

- **What is PayPal IPN?** Instant Payment Notification (IPN) is a message service that automatically notifies merchants of events related to PayPal transactions. Merchants can use it to automate back-office and administrative functions, including automatically fulfilling orders and providing customers with order status.

- **How is PayPal IPN Used?** Simply stated it is a Listener App that gets triggered when Paypal sends a request to the website.

- **How is it activated?** The App used to send a payment request to PayPal from your website also includes a URL to send notification to your server.

- **Scripts of our App**: local-test.php, paypal-ipn.php and PaypalIPN.php

- **Database**: MySQL database table wp_paypal_transactions.

- **Current status of documentation**:

  - As the App is currently released on **github.com**, the most critical documentation is being written first. Other portions will be written as time permits.

- **Last steps**: All documentation will be converted into a single eBook.

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App - local-test.php

- Content pending

App - paypal-ipn.php

- Content pending

App - PaypalIPN.php

DOC - CONSTANT SECTION

- Changed the way CONSTANTS are created.

- Original code used <u>const</u>, which was set before script functional was possible. I changed it to <u>define,</u> which allowed it to be dynamic. Control and management is done in the parent script paypal-ipn.php.

DOC - CHANGE LOG

- Logging of code changes.

DOC - BEGIN ALL CLASS CODE

- This is a general section and continues until this script ends.

- This section continues until the next doc section.

- No comments at this time about these code areas.

DOC - ECHO

- Is a general comment about the use of echo in the code.

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- Echo outputs comments to the website page when local-test.php is used and enabled.

- Feel free to change or even remove as needed.

- Echo does not affect background running of the when call by PayPal from the sandbox or the live site. However, removing it after all testing will make the code more readable to the eyes.

DOC - DEFINE CONSTANTS

- This code are handles defining constants for this script.

- It is called from the paypal-ipn.php script and

- Controlled by a local variable $test_location.

- More will be said about $test_location in the other script.

- FYI, two constants VALID & INVALID control action of this PaypalIPN processing.

  - For testing, these values are set opposite of expected, which allows false processing to work.

  - For Live processing (even the IPN simulator, the values are revered to desired conditions.

  - This process came from other versions of IPN processing.

  - The return array sends values back to paypal-ipn.php, but I don't believe this is necessary, because the CONSTANTS are global in nature.

    - The return array may be removed in the future.

DOC - GENERAL HOUSEKEEPING

- This is general code or call it housekeeping.

- Comments will be added if applicable.

DOC - VERIFYIPN & SAVING

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- For now, I will give an overview. Details will be added later

- Basically data is received and validations sent back.

- If failed, errors out and all done.

- **Results from local and simulator testing can be iffy**, so if you start hacking with the code, please make backups in advance and document your positions.

- If passed, proceed to format and write the data to:

  - Text file on local server (complete, but more doc needed).

  - Write to MySQL (10-04-22: my next task)

DOC - MySQL & SCHEMA

- Output will be the a MySQL custom DB table.

- I do not suggest or recommend writing to wp_posts and postmeta tables, but if you want to do it, go right ahead.

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DB Instant Payment Notifications

DOC - SCHEMA for wp_paypal_transactions table

• Proposed MySQL database table layout.

• The interface is written and will be added to the code in October, 2022.

• It could be <u>pre-released</u> with just Sandbox Testing.

Field	Type	Null	Key	Default	Extra
id	bigint(20)	NO	PRI		auto_increment
user_id	bigint(20)	NO			
timestamp	datetime	NO			
txn_id	varchar(30)	YES			
txn_type	varchar(10)	YES			
shop_txn_id	varchar(30)	YES			
transaction_subject	varchar(50)	YES			
payment_date	varchar(30)	YES			
receiver_email	varchar(60)	YES			
item_name	varchar(100)	YES			
item_number	varchar(10)	YES			
payment_status	varchar(10)	YES			
pending_reason	varchar(10)	YES			
mc_gross	varchar(20)	YES			
mc_fee	varchar(20)	YES			
tax	varchar(20)	YES			

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mc_currency	varchar(10)	YES			
first_name	varchar(30)	YES			
last_name	varchar(40)	YES			
address_name	varchar(50)	YES			
address_street	varchar(50)	YES			
address_city	varchar(30)	YES			
address_state	varchar(30)	YES			
address_zip	varchar(20)	YES			
address_country	varchar(30)	YES			
address_country_code	varchar(10)	YES			
residence_country	varchar(10)	YES			
address_status	varchar(10)	YES			
payer_email	varchar(60)	YES			
payer_status	varchar(10)	YES			
payment_type	varchar(10)	YES			
payment_gross	varchar(20)	YES			
payment_fee	varchar(20)	YES			
notify_version	varchar(10)	YES			
verify_sign	varchar(10)	YES			
referrer_id	varchar(10)	YES			
business	varchar(60)	YES			
ipn_track_id	varchar(20)	YES			