### Overview

This initiative is to send consumers an SMS message whenever they abandon their shopping cart on the Shopify application. This will not only remind the customer that they have items that weren’t checked out in the cart but will also increase sales.

### Scope

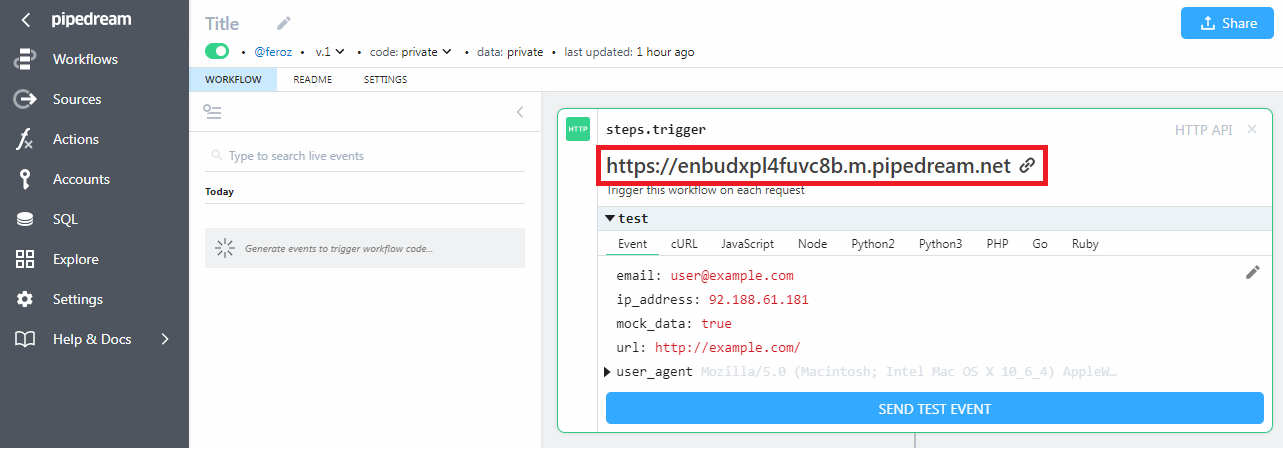
This Document’s intention is to provide a Plan involving a test for the MojoDojo scenario, which is developed by the MojoDojo team. This Test plan will contain Integration, Functional and Database testing.

**Project Scope per Release**

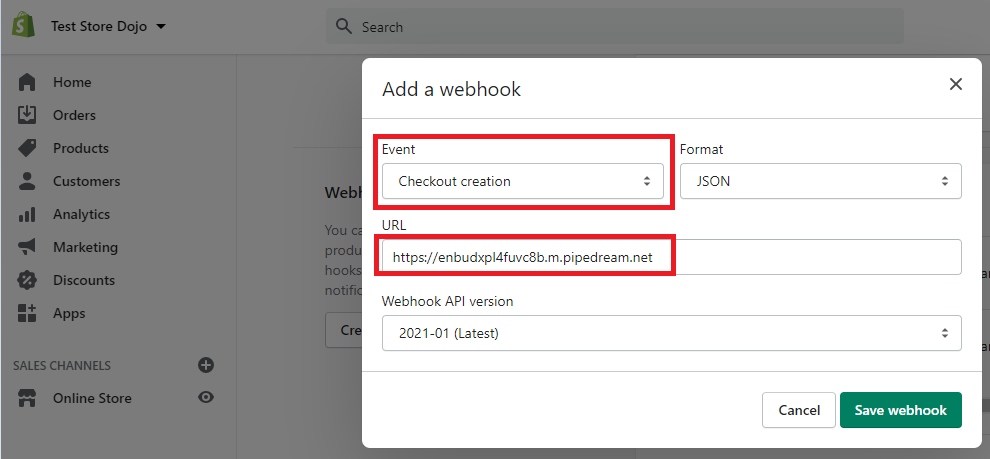
|  |  |
| --- | --- |
| **Release Number** | **Description** |
| 1.0 | This release will provide the following:   * Ability to retrieve a web-hook from Shopify which contains consumer information and their shopping carts information. This web-hook will be triggered when the consumer abandons their shopping cart * The retrieved information will then be saved in DojoMojo’s Database awaiting further interaction * A cron job will then be used to send the consumer an SMS message concerning their abandoned order 24 hours later using Twilio |

### Test Scenario

1. Access a Web-hook URL. **For demo purposes I used the pipedream site to generate the URL**:

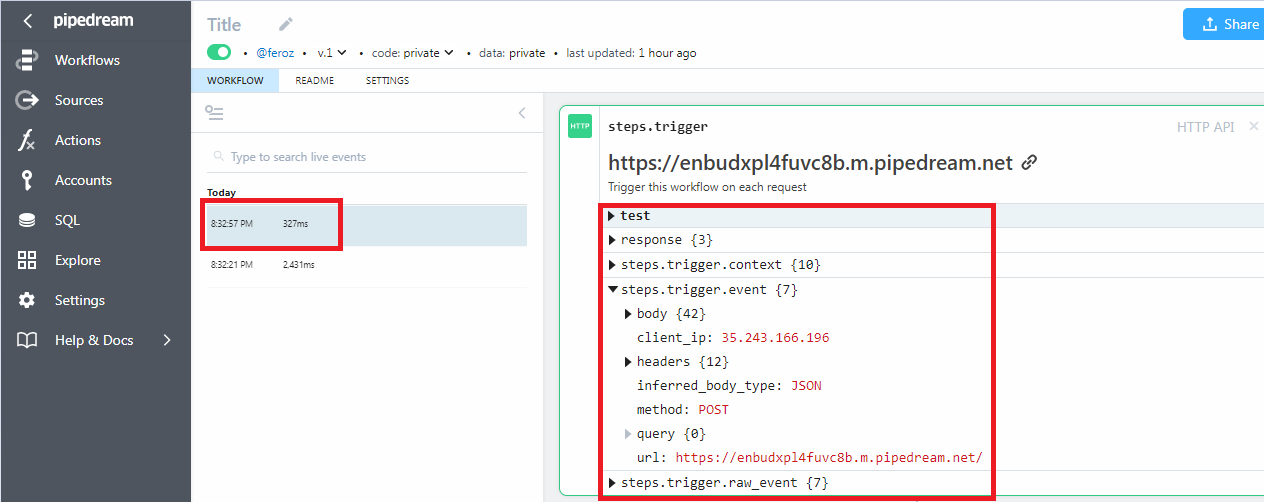


1. The Web-hook URL was then connected to Shopify so whenever a certain event is triggered the web-hook allows the communication between applications.



1. Now that we have the connection set up we can then send test requests using Shopify to simulate Data.

Whenever the criteria is triggered (for example, the user abandons the cart) or the test Request is sent using Shopify, the data is displayed on pipedream. We then take that data and store it for validation later on.



1. The Data stored in Step 3 is then validated with the data that is stored in the DojoMojo Database. SQL queries are written to retrieve data from the DB then are validated.
2. For testing purposes the cron job can possibly be configured to send the SMS messages at earlier intervals.
3. Test the integrity of the data that are sent to the consumer. The data is sent through SMS using Twilio, it will then be tested and compared to the data from the Database.

### Data to be validated and Tests

The Header contents: content-type

Method

x-shopify-webhook-id

x-amzn-trace-id

x-shopify-shop-domain

x-shopify-topic

The contents in the body:   
 abandoned\_cart\_url

**line\_items** and info related to line items

billing\_address

buyer\_accepts\_marketing:

cart\_token:

currency:

device\_id:

discount\_codes

email:

landing\_site:

phone:

referring\_site:

subtotal\_price:

token:

total\_discounts:

total\_line\_items\_price:

total\_tax:

total\_weight:

updated\_at:

user\_id:

client\_ip:

Test the Response/status code

We can also test how the Web-hook reacts with it’s under a lot of load

Test for broken links

Test with multiple negative criteria to see the response

Test the data is stored correctly in the Database

Test that the cron job is triggering at specified time

### Types of Testing to be conducted

**Unit Testing**

Unit testing involves testing various units of the system independently. Each of the functions will be tested in isolation from each other while using the white box and black box techniques.

**Integrating Testing**

After successfully testing the components separately, they will then be integrated and tested together.

**Database Testing**

Database Testing will be performed to Test the Integrity of the Data that are processed frequently.

**API Testing**

Test all API that is created for the Software under test.

**Functional Testing**

Functional Testing is carried out with testing based on the Functionalities of the Application.

**Regression Testing**

Regression Testing shall be performed after each build is deployed.

### Test Entrance criteria

* All Test Artifacts are completed, reviewed and approved.
* Test environment is available for testing.

### Test Execution Exit Criteria

* All defects determined as critical are fixed.
* All DRs and/or TORs have been entered into Jira or other bug tracking tools.
* All identified testing based on defined scope has completed.