INTRODUCTION TO CIRCLE PAYMENTS USING API

Presented by David Pratama

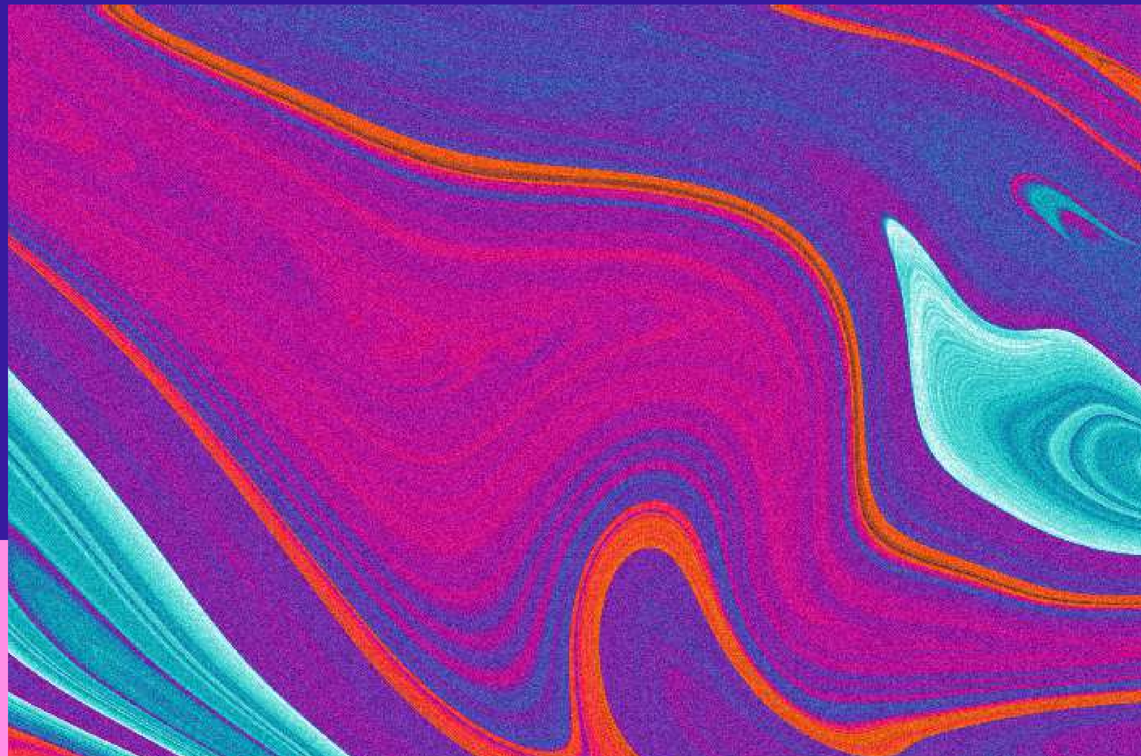
Presentation summary

Introduction to Circle Payments API

Installing Circle's Sample web App

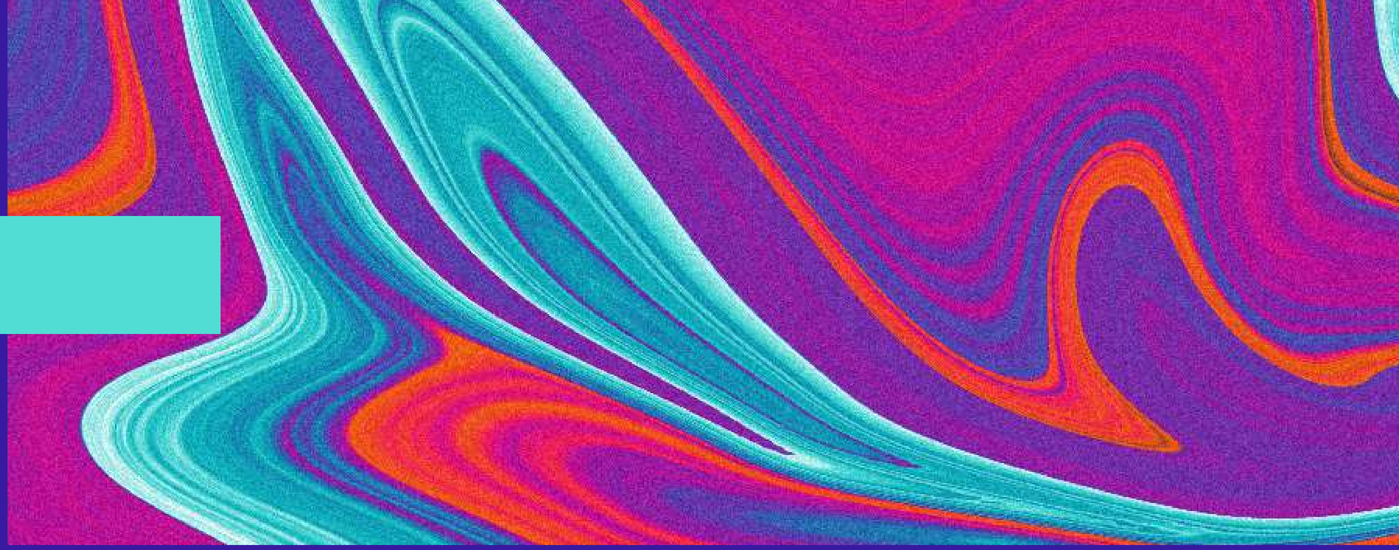
Making Card Payment's in Sandbox App

Making an API Call



Introduction to Circle Payments API

The Circle Payment API allows you to collect payments from your end users via traditional methods such as debit cards, credit cards and bank accounts as well as crypto wallets. These transactions are conducted in USDC, a stablecoin which we have learned about in the first quest. The Circle Payment API is designed for any business or e-commerce in mind and has been processing millions of card payments since 2014.



Payments

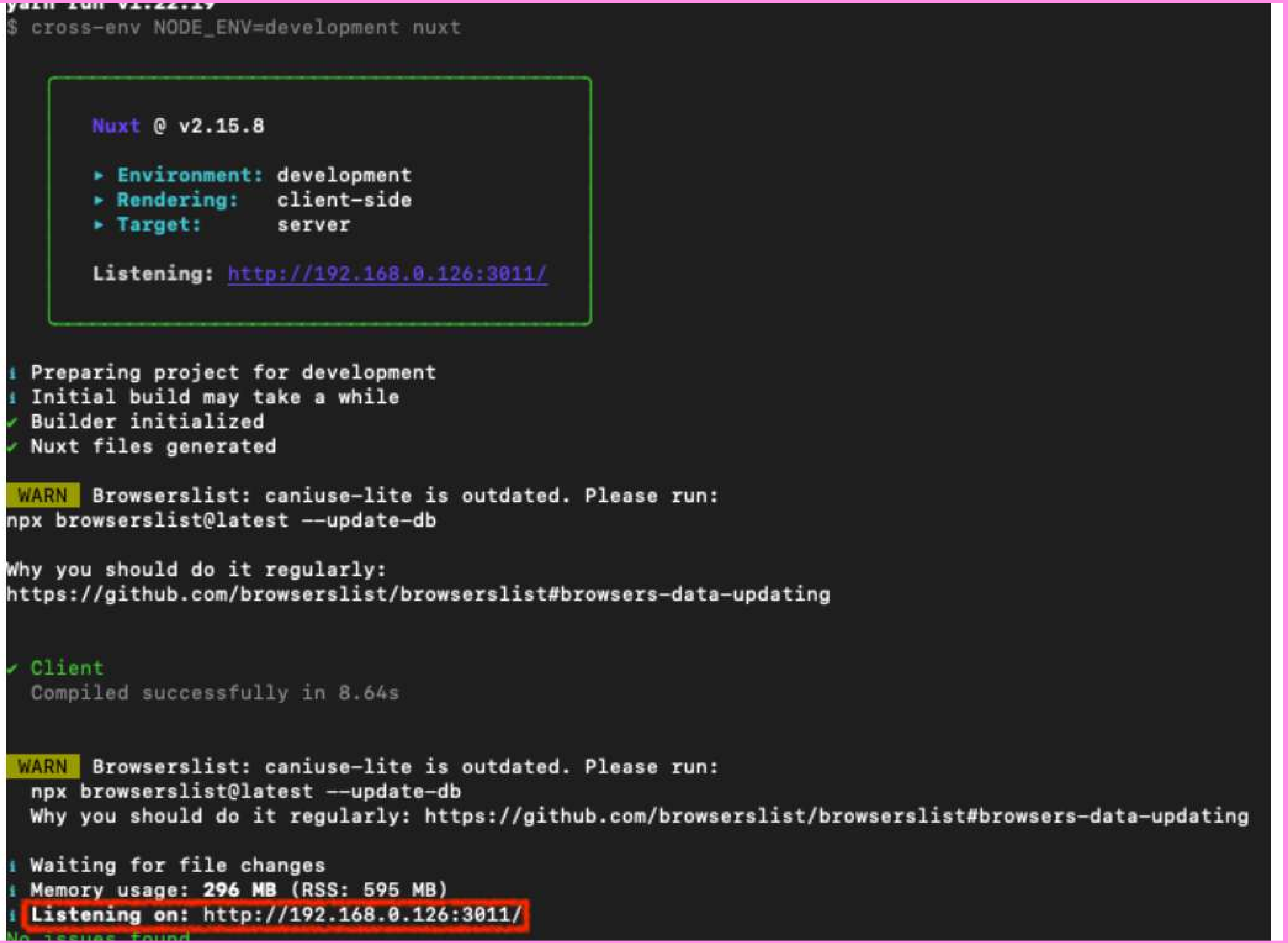
The next generation payments processing solution

Installing Circle's Sample Web App

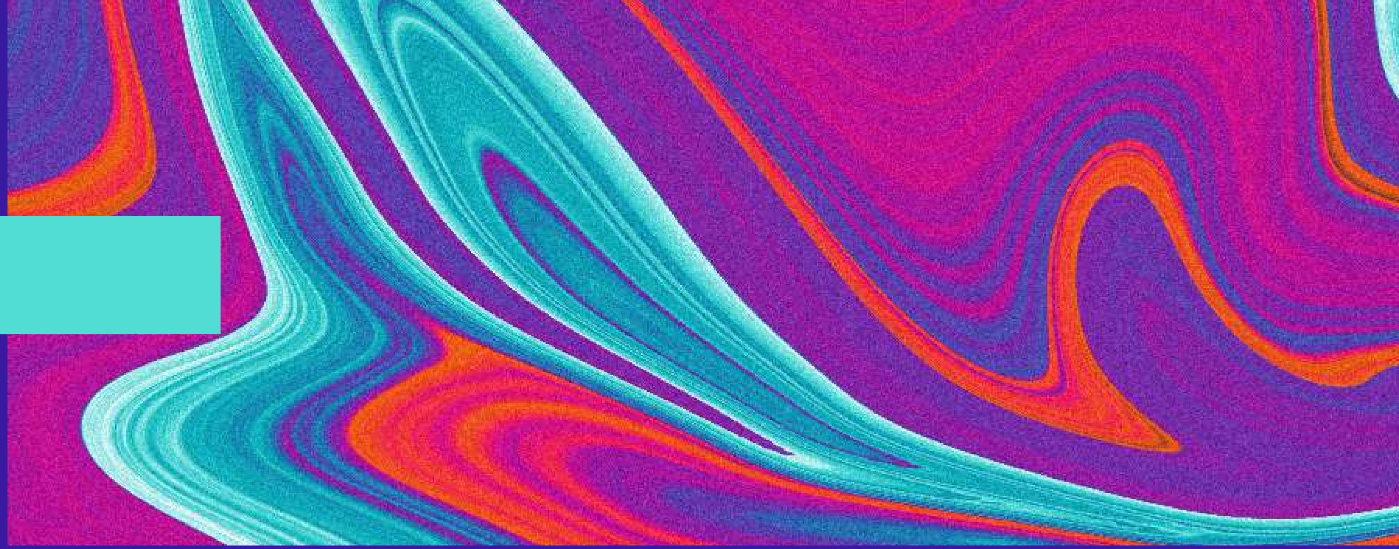
Here the program that you must be installed in your computer to launch the circle web app:

1. Git
2. Node
3. Yarn
4. git clone https://github.com/circlefin/payments-sample-app.git
5. cd payments-sample-app
6. echo BASE_URL=https://api-sandbox.circle.com > .env
7. yarn install
8. yarn dev

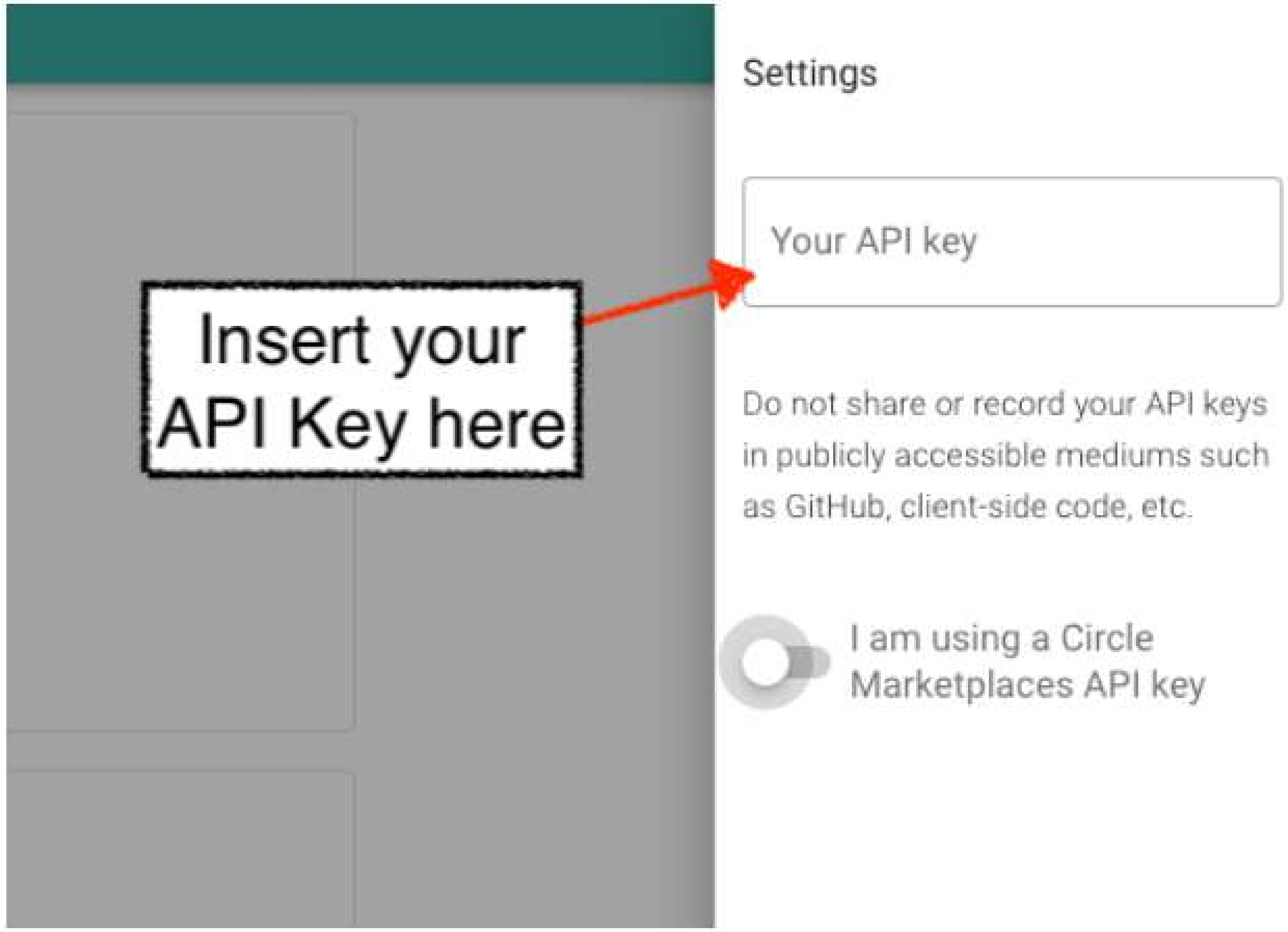
The Successfull running yarn dev



```
yarn run v1.22.19
$ cross-env NODE_ENV=development nuxt

   ┌──────────────────────────────────────────┐
   │                                          │
   │   Nuxt @ v2.15.8                         │
   │                                          │
   │   ▸ Environment: development             │
   │   ▸ Rendering:   client-side             │
   │   ▸ Target:      server                  │
   │                                          │
   │   Listening: http://192.168.0.126:3011/  │
   │                                          │
   └──────────────────────────────────────────┘

ℹ Preparing project for development
ℹ Initial build may take a while
✔ Builder initialized
✔ Nuxt files generated

 WARN  Browserslist: caniuse-lite is outdated. Please run:
npx browserslist@latest --update-db

Why you should do it regularly:
https://github.com/browserslist/browserslist#browsers-data-updating


✔ Client
  Compiled successfully in 8.64s


 WARN  Browserslist: caniuse-lite is outdated. Please run:
  npx browserslist@latest --update-db
  Why you should do it regularly: https://github.com/browserslist/browserslist#browsers-data-updating

ℹ Waiting for file changes
ℹ Memory usage: 296 MB (RSS: 595 MB)
ℹ Listening on: http://192.168.0.126:3011/
No issues found
```



Making Card Payments In The Sandbox Environment



Settings

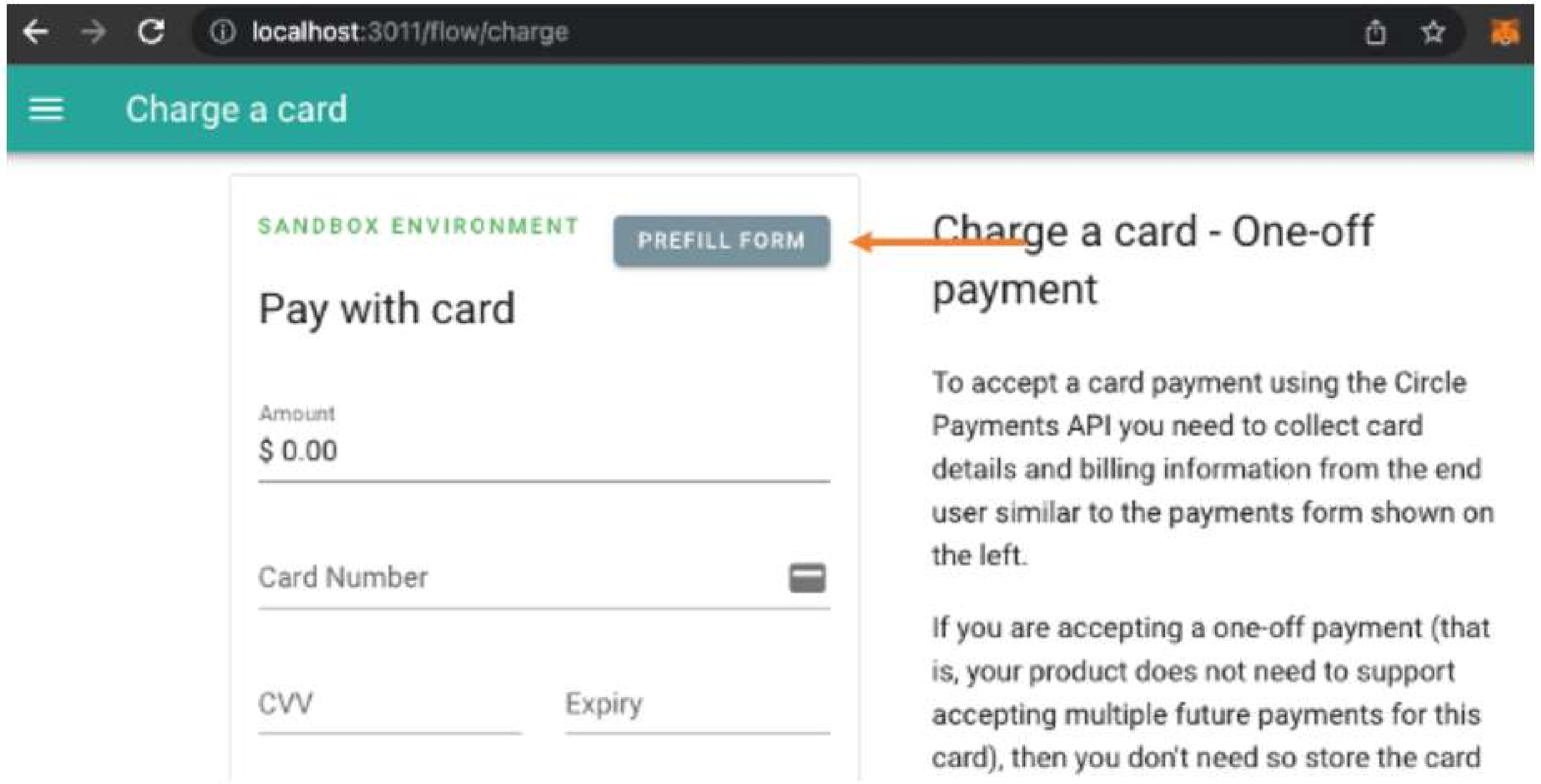
Your API key

Do not share or record your API keys in publicly accessible mediums such as GitHub, client-side code, etc.

I am using a Circle Marketplaces API key

Insert your API Key here

Making Card Payments In The Sandbox Environment



Pay with card

Amount
$ 0.00

Card Number

CVV

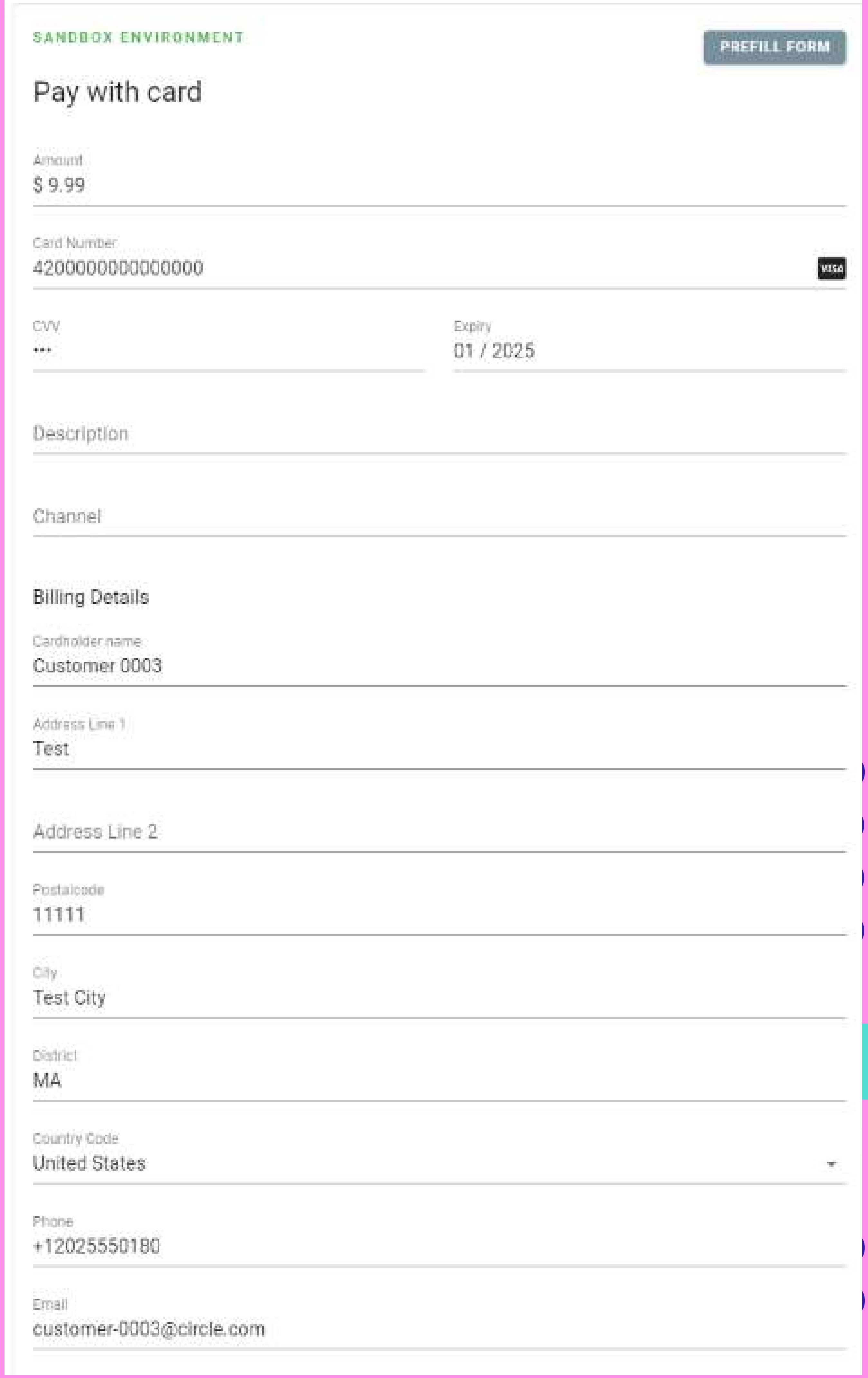
Expiry

Charge a card - One-off payment

To accept a card payment using the Circle Payments API you need to collect card details and billing information from the end user similar to the payments form shown on the left.

If you are accepting a one-off payment (that is, your product does not need to support accepting multiple future payments for this card), then you don't need so store the card

Making Card Payments In The Sandbox Environment



SANDBOX ENVIRONMENT

PREFILL FORM

Pay with card

Amount
$ 9.99

Card Number
4200000000000000 VISA

CVV
•••

Expiry
01 / 2025

Description

Channel

Billing Details

Cardholder name
Customer 0003

Address Line 1
Test

Address Line 2

Postalcode
11111

City
Test City

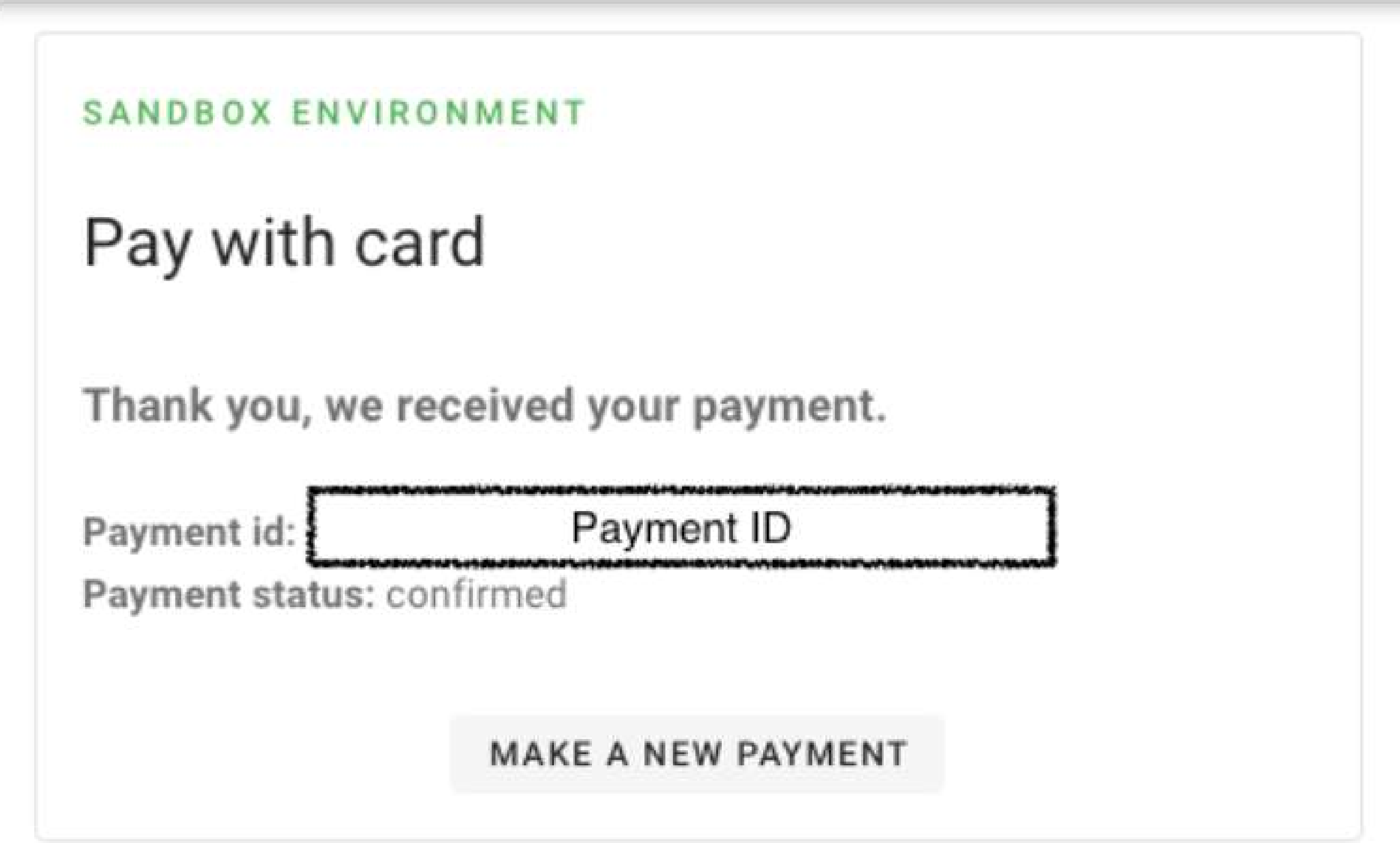
District
MA

Country Code
United States

Phone
+12025550180

Email
customer-0003@circle.com

Making Card Payments In The Sandbox Environment



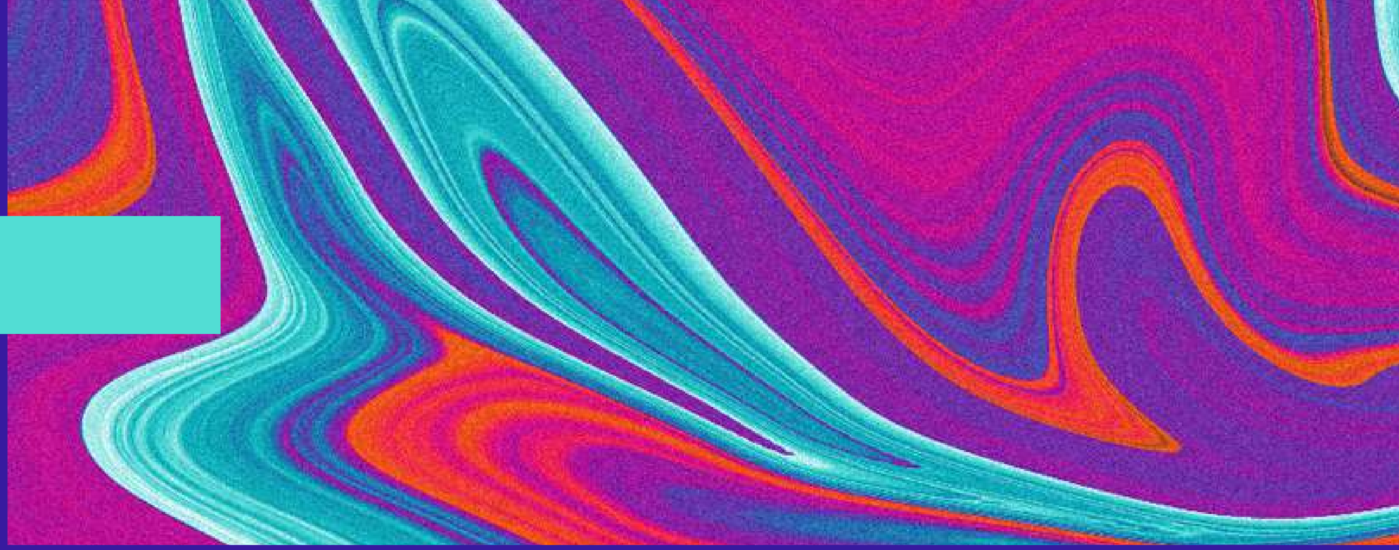
SANDBOX ENVIRONMENT

Pay with card

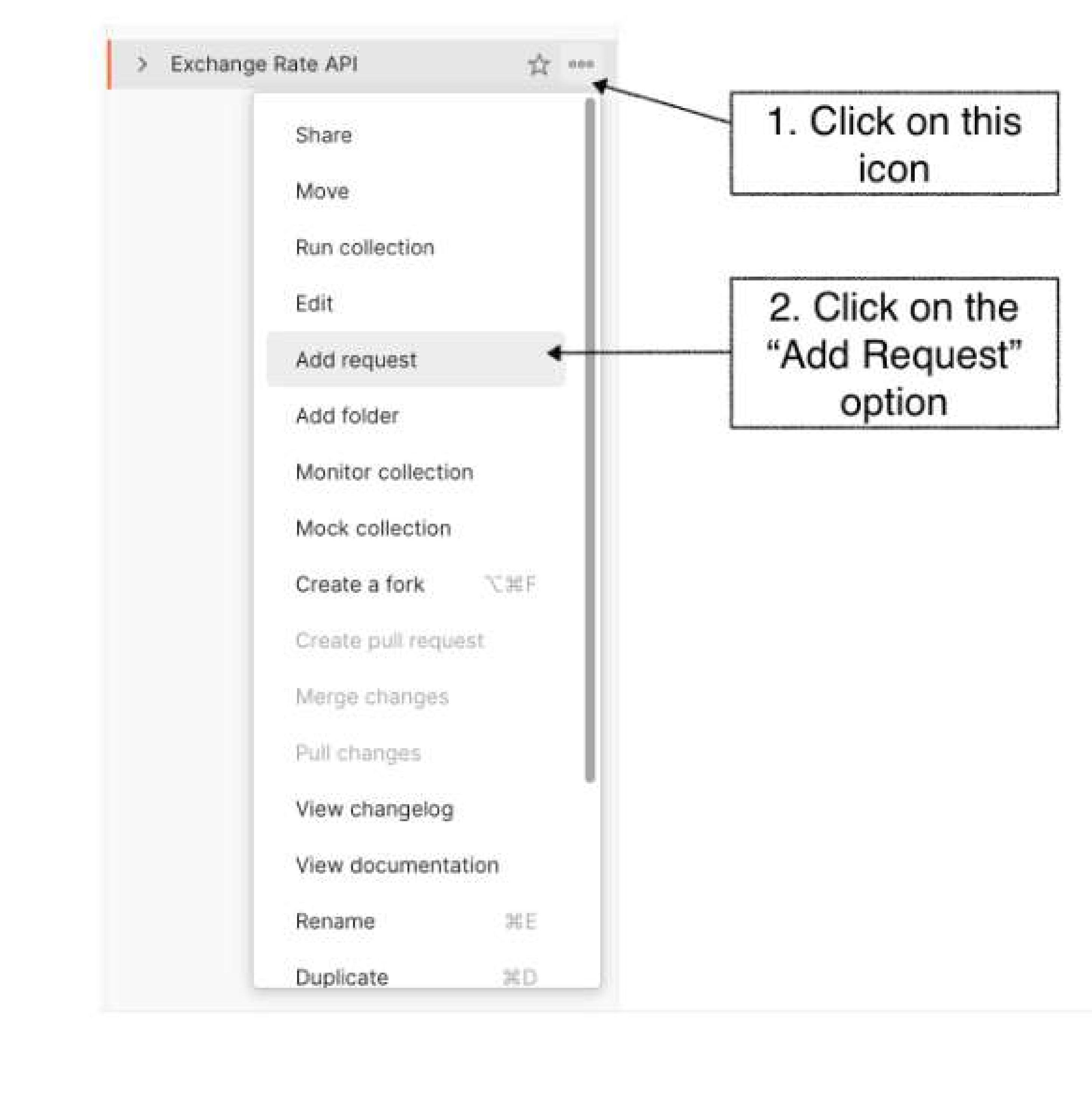
Thank you, we received your payment.

Payment id: Payment ID

Payment status: confirmed

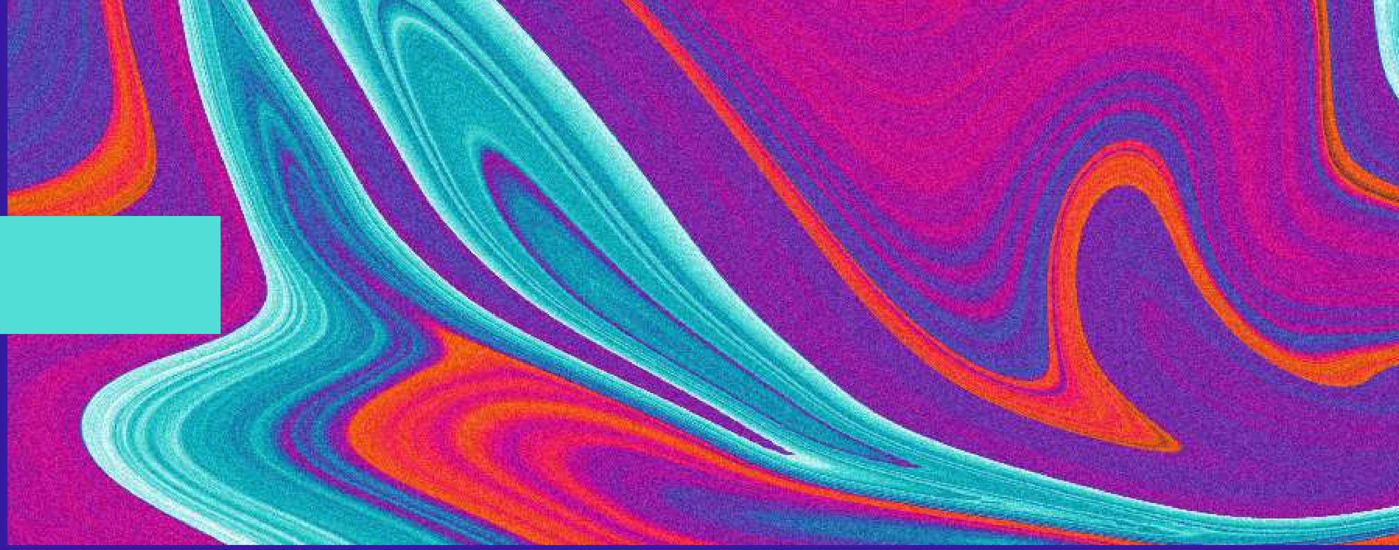


MAKING AN API CALL

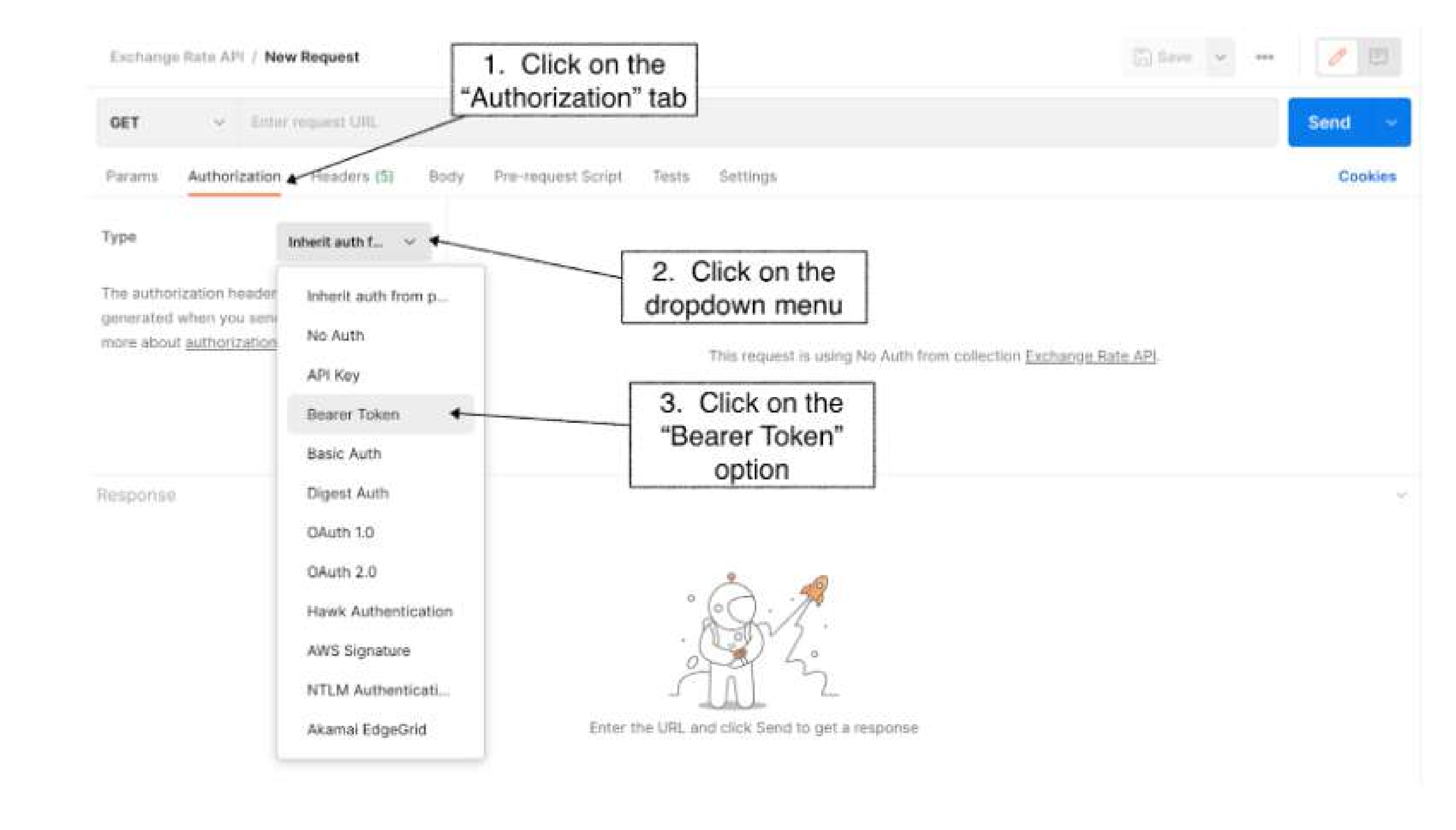


1. Click on this icon

2. Click on the "Add Request" option



MAKING AN API CALL



1. Click on the "Authorization" tab

2. Click on the dropdown menu

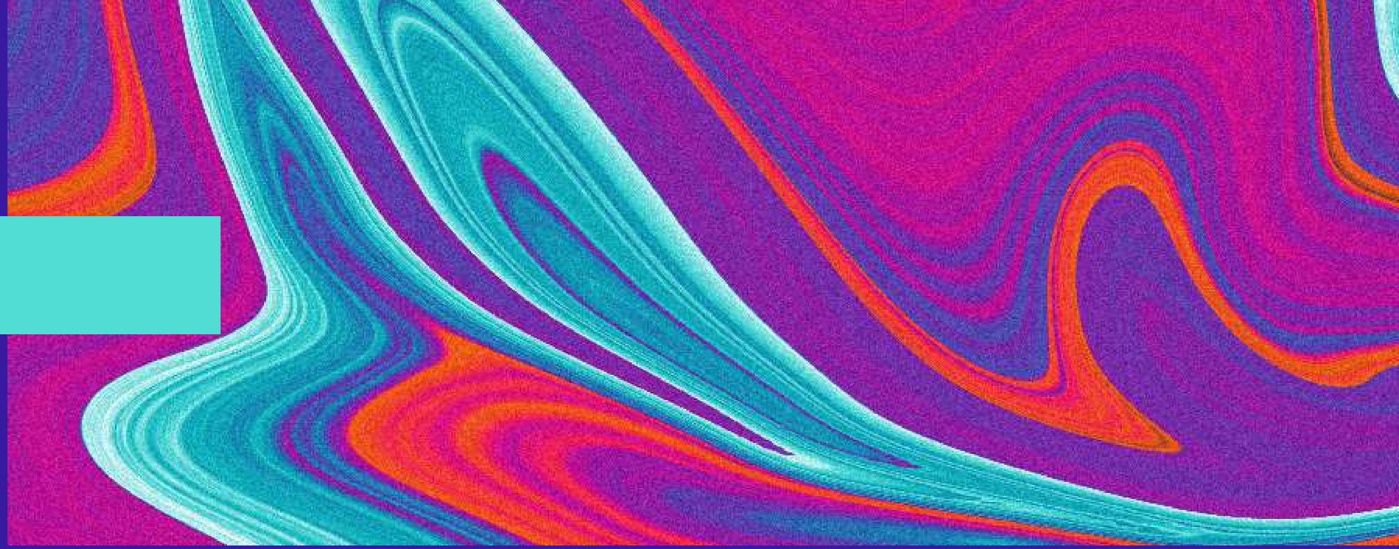
3. Click on the "Bearer Token" option

The authorization header generated when you sen more about authorization

This request is using No Auth from collection Exchange Rate API.

Enter the URL and click Send to get a response

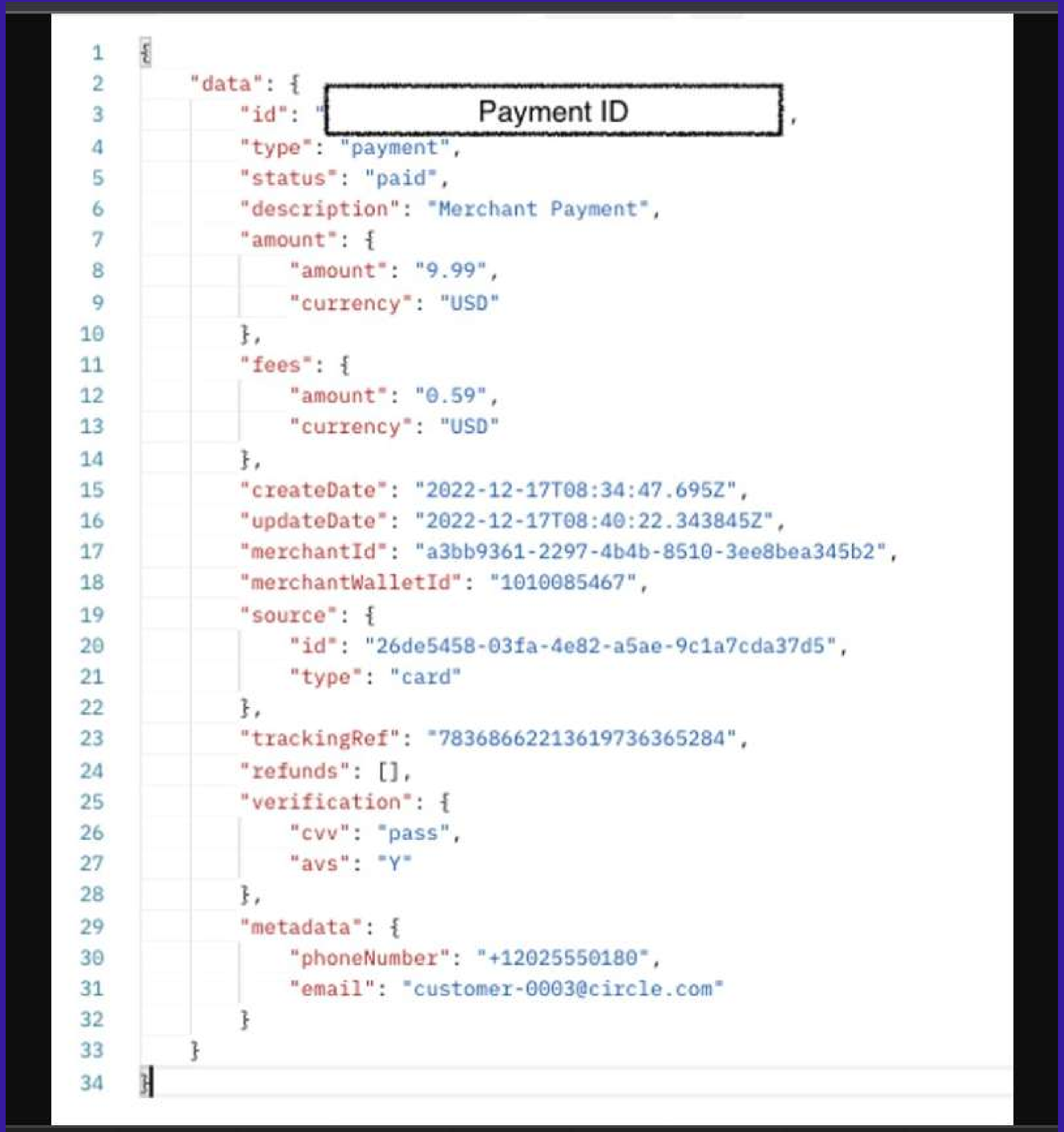
MAKING AN API CALL



Next to "GET", enter the following request URL for Postman to call: https://api-sandbox.circle.com/v1/payments/${PAYMENT_ID}
Replace “${PAYMENT_ID}” with the payment ID that you copied in the previous step.

Next, perform the API call by clicking the “Send” button on the right.

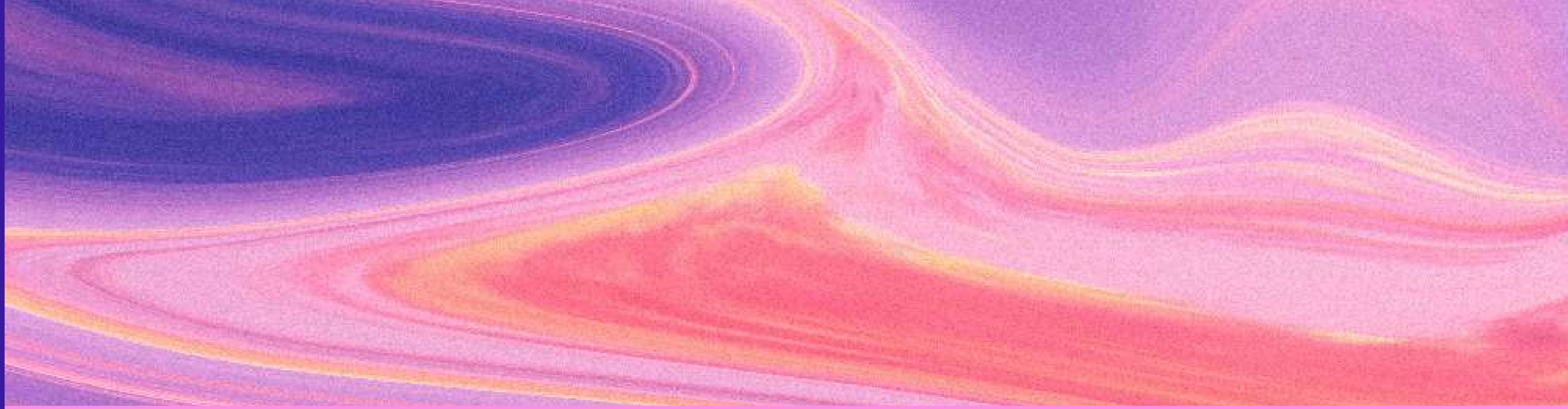
Expected Output

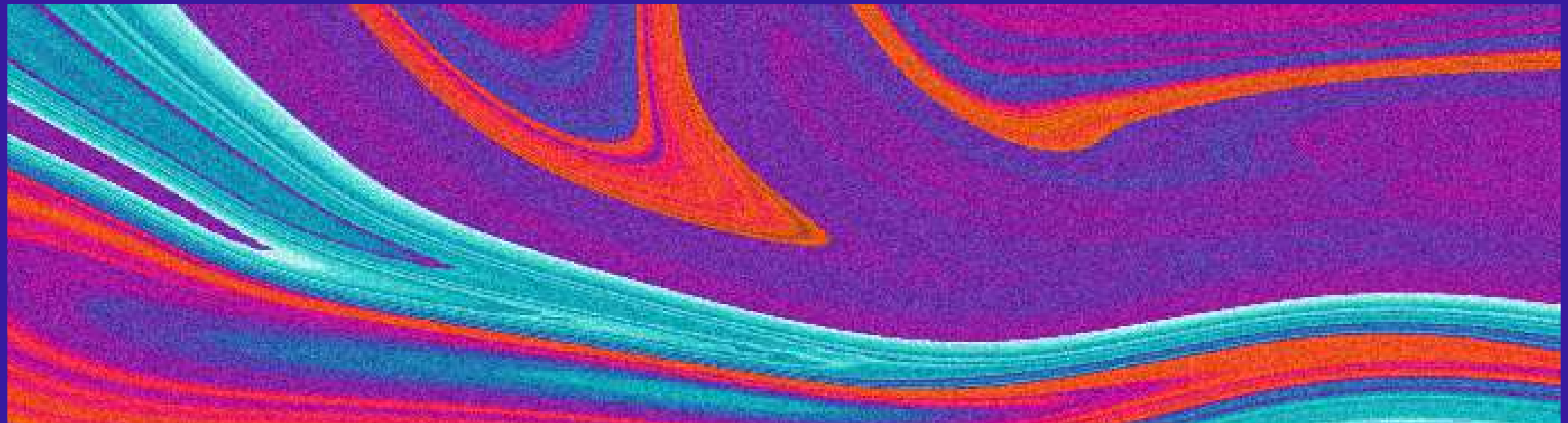


```
{
    "data": {
        "id": "Payment ID",
        "type": "payment",
        "status": "paid",
        "description": "Merchant Payment",
        "amount": {
            "amount": "9.99",
            "currency": "USD"
        },
        "fees": {
            "amount": "0.59",
            "currency": "USD"
        },
        "createDate": "2022-12-17T08:34:47.695Z",
        "updateDate": "2022-12-17T08:40:22.343845Z",
        "merchantId": "a3bb9361-2297-4b4b-8510-3ee8bea345b2",
        "merchantWalletId": "1010085467",
        "source": {
            "id": "26de5458-03fa-4e82-a5ae-9c1a7cda37d5",
            "type": "card"
        },
        "trackingRef": "78368662213619736365284",
        "refunds": [],
        "verification": {
            "cvv": "pass",
            "avs": "Y"
        },
        "metadata": {
            "phoneNumber": "+12025550180",
            "email": "customer-0003@circle.com"
        }
    }
}
```

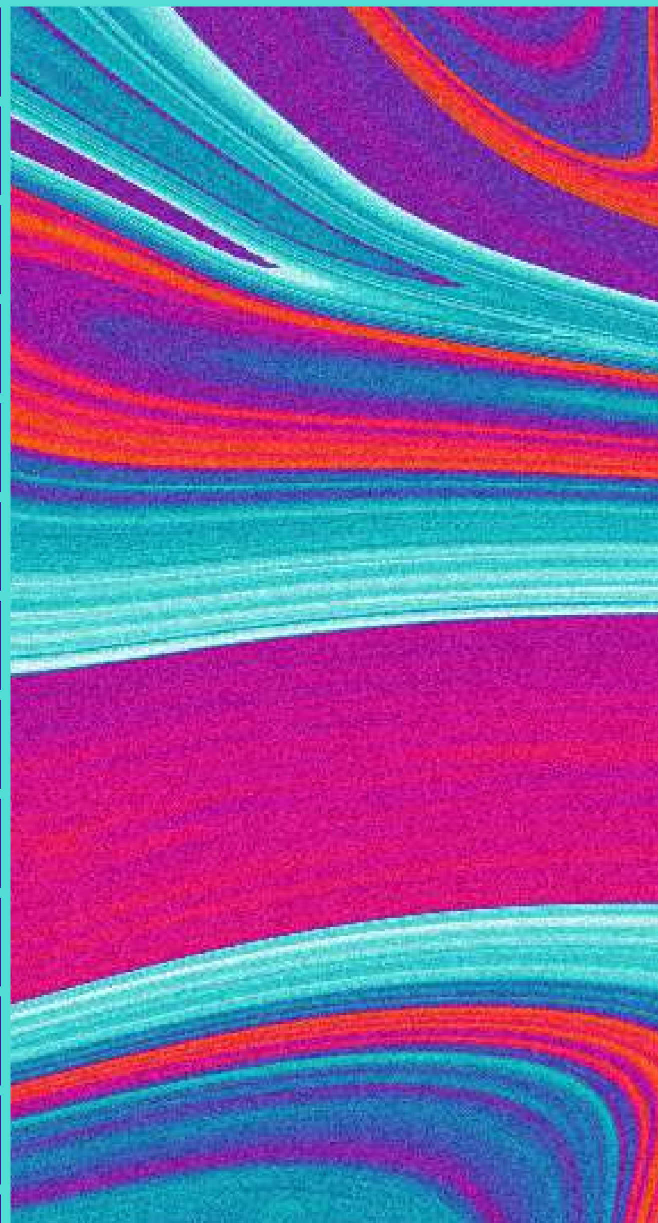
Thank You

From: David Pratama





MY SOCIAL MEDIA



FACEBOOK

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