

# Pinelabs .Net Sample App

This document explains the usage and installation of .Net sample app for Pinelabs SDK testing.

By Pinelabs Team

## Installation Process

This section explains the installation flow of the .Net sample app for Pinelabs.

You'll get a zip file containing the sample app for the Pinelabs sdk testing purposes. Once you get the zip file just extract in any location you want of choice and then proceed further with this guide in order to test it out.

Once extracted you'll have something like this a folder containing all the things for the sample app as shown in the image given below

Name	Date modified	Type	Size
.git	12/13/2023 11:55 AM	File folder	
.idea	11/22/2023 4:56 PM	File folder	
dotnet-sdk-master	11/23/2023 12:07 PM	File folder	
Pinelabs_Sample	11/22/2023 4:56 PM	File folder	
dot-net-setup-video.mp4	11/22/2023 4:56 PM	MP4 File	46,845 KB
Pinelabs_Sample.sln	11/22/2023 4:56 PM	SLN File	1 KB
Pinelabs_Sample.sln.DotSettings.user	11/22/2023 4:56 PM	USER File	1 KB

This structure contains the following files and folders

1. Dotnet-sdk-master :- Contains the actual sdk code that will be used by the sample app.
2. Pinelabs\_Sample :- Contains the actual sample app created for the testing purposes.

## Usage

There are 2 ways of running the sample app depending on the convenience and need of usage. We'll explain both ways here.

Pre-Build Binary : You can execute and run the sample app using the pre-built binary provided in the sample app. You can find this inside `bin\Release\net7.0` and then `Pinelabs_Sample.exe` once executed it will start a server.

```
F:\Pinelabs\Plural_Edge\Dotnet SDK - Sample\Pinelabs_Sample\bin\Release\net7.0
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5000
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
      Content root path: F:\Pinelabs\Plural_Edge\Dotnet SDK - Sample\Pinelabs_Sample\bin\Release\net7.0
```

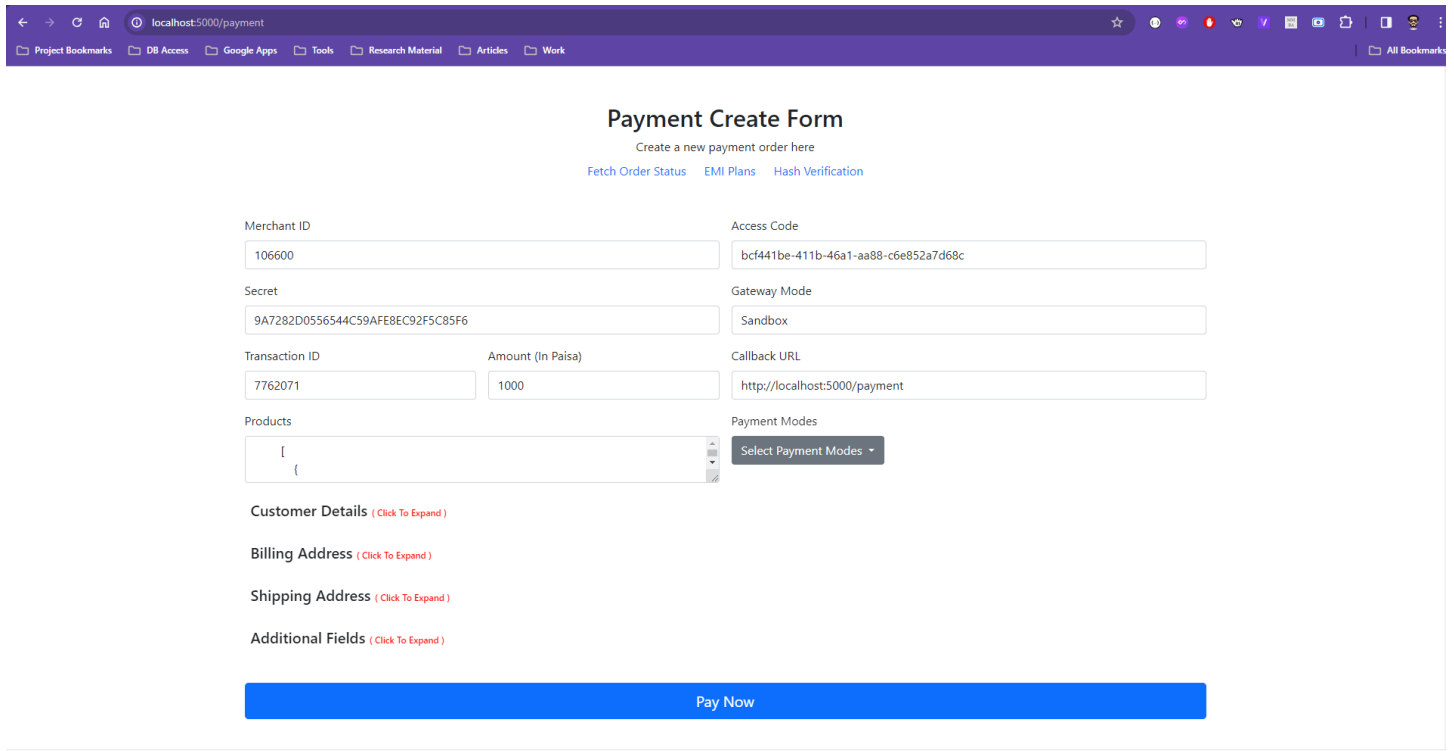
As shown in the image shown above you can access your <http://localhost:5000> server in any browser.

There are few different functionalities you can use in the sample app which are as follows :

1. Payment Order Create
2. Payment Status Fetch
3. EMI Offer Fetch
4. Hash Verification

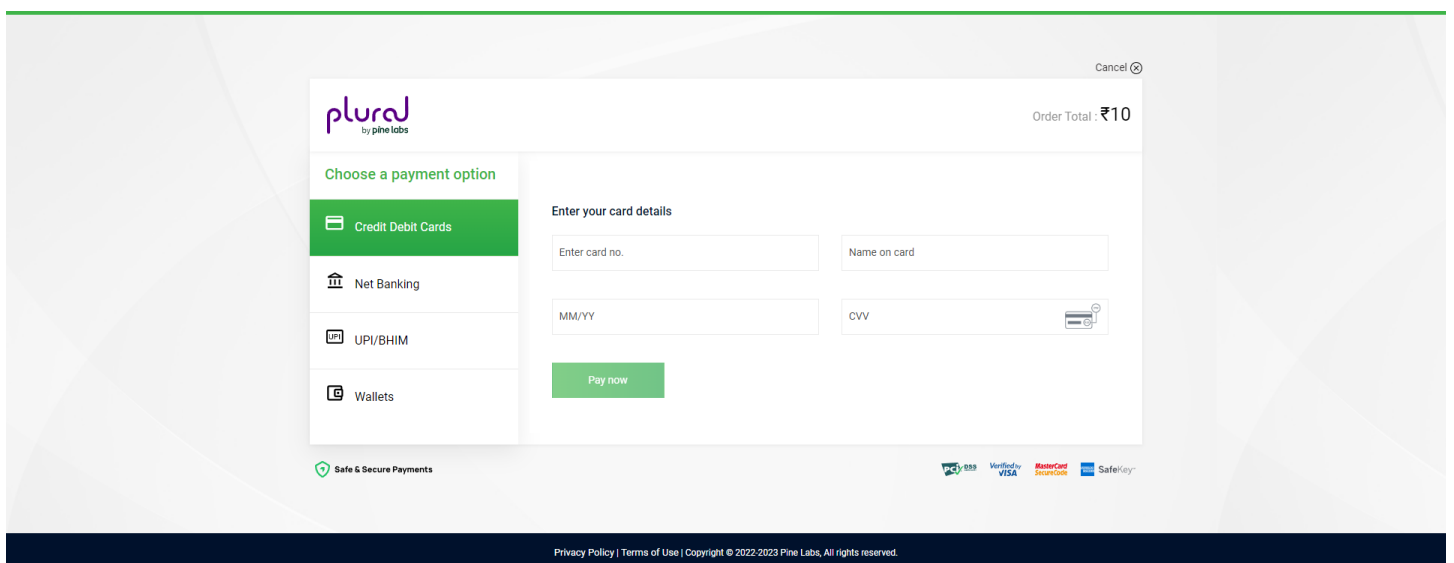
## Create Order

Once your server is started navigate to `/payment` and then the following UI will open up as shown in the pictures



The screenshot shows a web browser at `localhost:5000/payment` displaying the "Payment Create Form". The form is titled "Payment Create Form" with the subtitle "Create a new payment order here". Below the title are three links: "Fetch Order Status", "EMI Plans", and "Hash Verification". The form contains several input fields: "Merchant ID" (106600), "Access Code" (bcf441be-411b-46a1-aa88-c6e852a7d68c), "Secret" (9A7282D0556544C59AFE8EC92F5C85F6), "Gateway Mode" (Sandbox), "Transaction ID" (7762071), "Amount (In Paisa)" (1000), and "Callback URL" (http://localhost:5000/payment). There are also sections for "Products" (a JSON array) and "Payment Modes" (a dropdown menu). Below these are sections for "Customer Details", "Billing Address", "Shipping Address", and "Additional Fields", each with a "Click To Expand" link. At the bottom is a large blue "Pay Now" button.

In the UI shown above most of the required details are already pre-filled and you can also choose to fill your own details if you want. Once you fill all the details just click on the **Pay Now** Button and it will redirect you to the Pinelabs checkout for the payment as shown in the below image



The screenshot shows the Plural by Pine Labs checkout interface. The top right corner displays "Order Total : ₹10". The main section is titled "Choose a payment option" and lists four options: "Credit Debit Cards", "Net Banking", "UPI/BHIM", and "Wallets". The "Credit Debit Cards" option is selected, and the "Enter your card details" section is active. This section contains input fields for "Enter card no.", "Name on card", "MM/YY", and "CVV". A "Pay now" button is located at the bottom of the card details section. The bottom of the interface features a "Safe & Secure Payments" logo and a row of logos for Visa, Mastercard, and others. The footer contains the text "Privacy Policy | Terms of Use | Copyright © 2022-2023 Pine Labs. All rights reserved."

Here you can either proceed with the payment or choose to cancel the payment. And you'll be redirected back to the sample app.

## Fetch Order

Click on the fetch order status link and it will take you to the fetch order status page.

### Fetch Transaction Form

Check Fetch and EMI API Response

[Payment Create](#) [EMI Plans](#)

Merchant ID	Access Code
<input type="text" value="106600"/>	<input type="text" value="bcf441be-411b-46a1-aa88-c6e852a7d68c"/>
Secret	Gateway Mode
<input type="text" value="9A7282D0556544C59AFE8EC92F5C85F6"/>	<input type="text" value="Sandbox"/>
Transaction ID	
<input type="text" value="505350"/>	

Fetch Payment Status

Just fill in the details mentioned and then click on the fetch payment status.

```
{
  "ppc_MerchantID": "106600",
  "ppc_MerchantAccessCode": "bcf441be-411b-46a1-aa88-c6e852a7d68c",
  "ppc_PinePGTxnStatus": "7",
  "ppc_TransactionCompletionDateTime": "04/11/2023 01:24:43 AM",
  "ppc_UniqueMerchantTxnID": "505350",
  "ppc_Amount": "1000",
  "ppc_TxnResponseCode": "1",
  "ppc_TxnResponseMessage": "SUCCESS",
  "ppc_PinePGTransactionID": "13703443",
  "ppc_CapturedAmount": "1000",
  "ppc_RefundedAmount": "0",
  "ppc_AcquirerName": "BILLDESK",
  "ppc_DIA_SECRET": "C02B45A0334D4A1651AC2E4711BCE76360E9E0CCCC45825FF57DDEC75751C615",
  "ppc_DIA_SECRET_TYPE": "SHA256",
  "ppc_PaymentMode": "3",
  "ppc_Parent_TxnStatus": "4",
  "ppc_ParentTxnResponseCode": "1",
  "ppc_ParentTxnResponseMessage": "SUCCESS",
  "ppc_CustomerMobile": null,
  "ppc_UdfField1": null,
  "ppc_UdfField2": null,
  "ppc_UdfField3": null,
  "ppc_UdfField4": null,
  "ppc_AcquirerResponseCode": null,
  "ppc_AcquirerResponseMessage": null
}
```

It will share all the details for the payment transaction id including the status and few other things.

## Emi Calculation

Using the form provided you can fetch the EMI offers for the selected products and given details.

EMI Calculation Form

Check Fetch and EMI API Response

[Payment Create](#)[Payment Fetch](#)

Merchant ID

106598

Access Code

4a39a6d4-46b7-474d-929d-21bf0e9ed607

Secret

55E0F73224EC458A8EC0B68F7B47ACAE

Gateway Mode

Sandbox

Products

[  
{

Product Amount

4000000

Fetch EMI Options

Once you fill in the required details you can click on the fetch emi options button. It will show the results right below the form

EMI Calculation Form

Check Fetch and EMI API Response

[Payment Create](#)[Payment Fetch](#)

Merchant ID

106598

Access Code

4a39a6d4-46b7-474d-929d-21bf0e9ed607

Secret

55E0F73224EC458A8EC0B68F7B47ACAE

Gateway Mode

Sandbox

Products

[  
{

Product Amount

4000000

Fetch EMI Options

```
{"Result":{"issuer":[{"list_emi_tenure":[{"offer_scheme":{"product_details":{"schemes":[{"scheme_id":48150,"program_type":112,"is_sci
```

## Hash Verification

Hash verification form allows us to verify the hash that came from the Pinelabs callback response.

Hash Verification Form

Verify Payment Response

[Payment Create](#)[EMI Plans](#)

Merchant ID

106598

Access Code

6c5f47be-411b-46a1-a48b-c5a852a758dc

Hash

D548CF9F3C8D43E74E14ED1B0E7A7D5D4F74C8B9355E4CC3A23694945B896

Secret

9AC72B235556544C384F58BC3A575C85F6

Gateway Mode

Sandbox

Transaction ID

4550a96763732

Pin Pg Transaction ID

12069839

Transaction Status

7

Transaction date

26/09/2023 04:07:32 PM

Enter PPC amount

1000

Transaction Response Code

1

Transaction Response Message

SUCCESS

Captured Amount

1000

Refunded amount

0

Acquirer name

BILLOESK

Payment Mode

3

Parent Transaction Status

4

Parent Transaction Response code

1

Parent Transaction Response Message

SUCCESS

Customer Mobile No

773291210

Acquirer Response Code

0300

Acquirer Response Message

N/A

Additional Fields (click to expand)

Verify Hash

Fill all the mentioned details and then click on verify hash and it will automatically verify the hash for you for any callback response.