Pinelabs Node SDK Integration

This document explains the integration process of the Pinelabs Node SDK for your Node applications

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PineLabs Node JS SDK

This SDK offers a simple-to-use API for integrating PineLabs API in your node applications. It provides several easy methods for creating, fetching orders calculating EMIs, and verifying hash.

Installation

Prerequisites

Before installing the Node SDK, make sure you meet the following prerequisites:

- NODE version 18.17.1 or higher
- NPM version 9.6.7 or higher

To install this SDK locally from a folder you'll need to run the following commands. It will link and install the SDK in your node project.

```
npm link "../path-to-sdk-folder"
npm install "../path-to-sdk-folder"
```

Usage For SDK

Create an Instance of PineLabs SDK

Require Pinelabs SDK and call the default method on it. It takes 4 parameters which are as follows:

- 1. Merchant ID (string): Merchant ID provided by PineLabs
- 2. Merchant Access Code (string): Merchant Access Code Provided by PineLabs
- 3. Merchant Secret (string): Merchant Secret
- 4. isTest (boolean): If using test mode then set this to true
 const pinelabs = require("pinelabs_node").default("{merchant_id}",
 "merchant_access_code", "{merchant_secret}", isTest)

Create Order

This section explains how to create an order for payment processing. There are a couple of things required to create an order.

Parameters Required & Optional

```
// Transaction Data ( Mandatory )
const txn_data = {
   txn_id: "", // String
```

```
callback: '', // String
      amount in paisa: '1000', // String
}
      // Customer Data ( Optional )
const customer_data = {
      email_id: "", // String
      first_name: "", // String
last_name: "", // String
mobile_no: "", // String
      customer_id: "", // String
}
      // Billing Data ( Optional )
const billing_data = {
      address1: "", // String
address2: "", // String
address3: "", // String
pincode: "", // String
city: "", // String
      state: "", // String
      country: "", // String
}
      // Shipping Data ( Optional )
const shipping_data = {
      first_name: "", // String
last_name: "", // String
     last_name: "", // String
mobile_no: "", // String
address1: "", // String
address2: "", // String
address3: "", // String
pincode: "", // String
      city: "", // String state: "", // String
      country: "", // String
}
      // UDF data ( Optional )
const udf_data = {
      udf_field_1: "", // String
udf_field_2: "", // String
udf_field_3: "", // String
udf_field_4: "", // String
      udf_field_5: "", // String
}
      // Payment Modes That Need to Be Shown ( Mandatory )
const payment mode = {
      netbanking: true, // Boolean
      cards: true, // Boolean
```

```
emi: true, // Boolean
    upi: true, // Boolean
    cardless_emi: true, // Boolean
    wallet: true, // Boolean
    debit_emi: true, // Boolean
    prebooking: true, // Boolean
    bnpl: true, // Boolean
    paybypoints: false, // Boolean
}
    // Product Details ( Optional, Required For Multicart )
const product_details = [
    {
        "product_code": "testSKU1", // String
        "product_amount": 500000 // Integer
    },
        "product_code": "testSKU1", // String
        "product_amount": 500000 // Integer
]
```

Order Creation

Using the instance of the SDK we created above we will call the .create() method on the payment interface for creating an order with the provided parameters. It takes the following positional arguments

- 1. Transaction Data
- 2. Payment Modes
- Customer Data
- 4. Billing Data
- 5. Shipping Data
- 6. UDF Data
- 7. Product Details

The create() method returns a promise with the response or else throws an error if something goes wrong.

```
// Create Order
pinelabs.payment.create(txn_data, payment_mode, customer_data, billing_data,
shipping_data, udf_data, product_details).then((data) => {
    console.log(data)
});
```

```
Success Response
{
    "status": true,
    "redirect_url":
"https://uat.pinepg.in/pinepg/v2/process/payment?token=S01wPSlIH%2bopelRVif7m
7e4SgrTRIcKYx25YDYfmgtbPOE%3d"
}
```

Failure Response

Fatal error: Uncaught Exception: MERCHANT PASSWORD DOES NOT MATCH

Fetch Order

Using the instance of the SDK we created above we will call the .fetch() method on the payment interface for fetching order details with the provided transaction ID and transaction type. It takes the following positional arguments

- 1. Transaction ID
- 2. Transaction Type

```
pinelabs.payment.fetch("650acb67d3752", 3).then((data) => {
    console.log(data)
});
```

```
Success Response
```

```
"ppc MerchantID": "106600",
 "ppc_MerchantAccessCode": "bcf441be-411b-46a1-aa88-c6e852a7d68c".
  "ppc_PinePGTxnStatus": "7",
  "ppc_TransactionCompletionDateTime": "20\/09\/2023 04:07:52 PM",
  "ppc UniqueMerchantTxnID": "650acb67d3752",
  "ppc_Amount": "1000",
  "ppc TxnResponseCode": "1",
 "ppc_TxnResponseMessage": "SUCCESS",
"ppc_PinePGTransactionID": "12069839",
  "ppc CapturedAmount": "1000",
  "ppc_RefundedAmount": "0",
  "ppc_AcquirerName": "BILLDESK",
  "ppc_DIA_SECRET":
"D640CFF0FCB8D42B74B1AFD19D97A375DAF174CCBE9555E40CC6236964928896",
  "ppc_DIA_SECRET_TYPE": "SHA256",
  "ppc PaymentMode": "3",
  "ppc_Parent_TxnStatus": "4",
  "ppc_ParentTxnResponseCode": "1",
  "ppc_ParentTxnResponseMessage": "SUCCESS",
  "ppc_CustomerMobile": "7737291210",
```

```
"ppc UdfField1": ""
  "ppc_UdfField2": ""
  "ppc UdfField3": "",
  "ppc_UdfField4": "",
  "ppc_AcquirerResponseCode": "0300",
  "ppc_AcquirerResponseMessage": "NA"
}
Failure Response
  "ppc MerchantID": "106600",
  "ppc MerchantAccessCode": "bcf441be-411b-46a1-aa88-c6e852a7d68c",
  "ppc_PinePGTxnStatus": "-6",
  "ppc TransactionCompletionDateTime": "21\/09\/2023 11:29:48 PM",
  "ppc UniqueMerchantTxnID": "106600 2109202323294890763",
  "ppc_TxnResponseCode": "-40",
  "ppc TxnResponseMessage": "INVALID DATA",
  "ppc CapturedAmount": "0",
  "ppc RefundedAmount": "0",
  "ppc DIA SECRET":
"4B9DD62C1CE94C354E368A2DA1C51C2E8ED16ABDC46414B8AAA60F378CDCE390",
  "ppc_DIA_SECRET_TYPE": "SHA256"
Incorrect Merchant Details
"IP Access Denied"
```

EMI Calculator

Using the instance of the SDK we created above we will call the .calculate() method on the emi interface for fetching offers for EMI with the provided product details. It takes the following positional arguments

```
1. Transaction Data
2. Product Details
const txn_data = {
    amount_in_paisa: '1000',
}

const productsDetail = [
    {
        "product_code": "testproduct02",
        "product_amount": 10000
    }
];

const res = pinelabs.emi.calculate(txn_data, productsDetail).then((data) => {
```

```
console.log(data)
});
```

```
Success Response
  "issuer": [
      "list_emi_tenure": [
        {
          "offer_scheme": {
            "product_details": [
              {
                "schemes": [],
                "product_code": "testproduct02",
                "product_amount": 10000,
                "subvention_cashback_discount": 0,
                "product_discount": 0,
                "subvention_cashback_discount_percentage": 0,
                "product_discount_percentage": 0,
                "subvention_type": 3,
                "bank_interest_rate_percentage": 150000,
                "bank interest rate": 251
              }
            ],
            "emi_scheme": {
              "scheme_id": 48040,
              "program_type": 105,
              "is_scheme_valid": true
            }
          },
          "tenure id": "3",
          "tenure_in_month": "3",
          "monthly_installment": 3417,
          "bank_interest_rate": 150000,
          "interest_pay_to_bank": 251,
          "total offerred discount cashback amount": 0,
          "loan_amount": 10000,
          "auth_amount": 10000
        },
          "offer_scheme": {
            "product_details": [
              {
                "schemes": [],
                "product_code": "testproduct02",
                "product_amount": 10000,
                "subvention_cashback_discount": 0,
```

```
"product_discount": 0,
                "subvention cashback discount percentage": 0,
                "product_discount_percentage": 0,
                "subvention type": 3,
                "bank_interest_rate_percentage": 150000,
                "bank_interest_rate": 440
              }
            ],
            "emi_scheme": {
              "scheme id": 48040,
              "program_type": 105,
              "is scheme valid": true
            }
          },
          "tenure_id": "6",
          "tenure_in_month": "6",
          "monthly_installment": 1740,
          "bank interest rate": 150000,
          "interest pay to bank": 440,
          "total offerred discount cashback amount": 0,
          "loan amount": 10000,
          "auth_amount": 10000
        }
      "issuer_name": "HDFC",
      "is_debit_emi_issuer": false
    }
  ],
  "response_code": 1,
  "response message": "SUCCESS"
}
Failure Response
Fatal error: Uncaught Exception: INVALID
DATA, MISMATCH IN TOTAL CART AMOUNT AND TOTAL PRODUCT AMOUNT
```

Verify Hash

Using the instance of the SDK we created above we will call the .verify() method on the hash interface for verifying a hash received in the response of callback and webhooks. It takes the following positional arguments

- 1. Hash Received in Response (DIA SECRET)
- 2. Response Received (Not including DIA_SECRET and DIA_SECRET_TYPE)

```
const isVerified =
pinelabs.hash.verify("D640CFF0FCB8D42B74B1AFD19D97A375DAF174CCBE9555E40CC6236
964928896", response);
console.log(isVerified);
```

Note:-

Please note no additional charges like TDR, GST, etc are handled in our Plugins and the same need to be manually handled at the merchant end

TLS 1.2 information:

- Node.js 0.12 and above have support for TLS 1.2.

Note: It's always recommended to use the latest LTS (Long Term Support) version.