

# Prerequisites

Python Version>=3

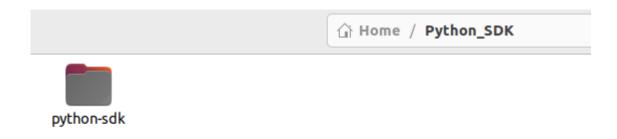
## Installation Process

This section explains the installation flow of the Python SDK for dealing with Pine Lab Apis

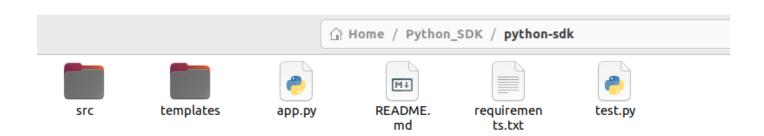
In this example we've created a sample project named `Flask\_Sample\_PineLab` which will be provided to you along with the SDK for you to be able to run and test out the SDK without actually integrating it. You can change and modify the code tocheck different behavior and responses we get from the SDK.

Given below are the steps for installing the SDK in your project:

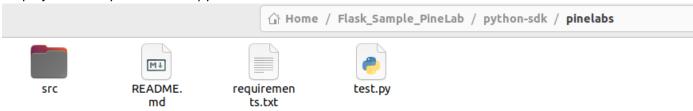
1. Extract the SDK (Zip File) in any location on your system. Here we have extracted it inside Python\_SDK Folder (Sdk Folder - python-sdk)



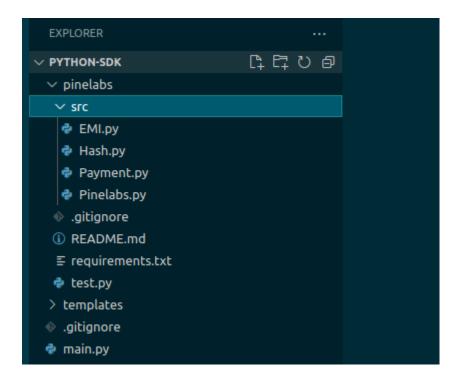
2. Now we need to copy all the files from it to to our flask Project or any Python framework you're using.



3. For sample we have imported files in our Sample Flask Project (Flask\_Sample\_PineLab), inside newly created folder pinelabs. In this sample you don't have to perform this step as it's already there, but in your existing project where you need to copy it & add.



4. So it'll look something like this in your IDE, where your main classes are also located in other packages.



5. After that you need to import class Pinelabs into your main class, like in our Sample Flask Project we have included classes (from pinelabs.src.Pinelabs import Pinelabs)

```
main.py x
main.py
Aamir-MCSAM, 15 hours ago | 1 author (Aamir-MCSAM)
from flask import Flask, render_template, request, redirect
import uuid
import json
from pinelabs.src.Pinelabs import Pinelabs
```

# **Usage Process**

This section explains the usage flow of the Python SDK

(**Note**- For testing this Flask sample app, you need to run main class and hit the url and navigate to /payment, to test run all 4 methods provided by this sdk.)

### **Create Order Process**

In order for us to create an order and generate a URL for payment we need to use the "create Method of Pinelabs class",

- 1. Create an instance of the Pinelabs class first and pass the following parameters
  - a. Merchant Id of the merchant provided by Pinelabs team
  - b. Merchant Access Code also provided by Pinelabs team
  - c. Merchant Secret also provided by Pinelabs team
  - d. Pg Mode which will be of type boolean (True for Testing and False for Production)
- 2. Now you need to call create method, pass following data in it
  - a. Transaction Data (txn data)- Required
  - b. Customer Data (customer\_data)- Optional
  - c. Shipping Data (shipping\_data)- Optional
  - d. Billing Data (billing data)- Optional
  - e. Udf Data (udf data)- Optional
  - f. Payment Modes Required: Modes of payments you want to be enabled on the checkout using the payment (List of Strings)
  - g. Product Details- Required: List of Map objects of product details.

# Create Instance of PineLabs SDK Import pinelabs sdk and create object of Pinelabs class. It takes 4 parameters which are as follows: 1. merchant\_id (string): Merchant ID provided by PineLabs 2. access\_code (string): Merchant Access Code Provided by PineLabs 3. secret (string): Merchant Secret 4. is\_test (boolean): If using test mode then set this to true const pinelabs = Pinelabs("{merchant\_id}", "{access\_code}", "{secret}", is\_test)

```
// Transaction Data ( Mandatory )
const txn_data = {
     txn_id: "", // String
callback: "", // String
     amount_in_paisa: "1000", // String
}
// Customer Data ( Optional )
const customer_data = {
    ist customer_data = {
  email_id: "", // String
  first_name: "", // String
  last_name: "", // String
  mobile_no: "", // String
  customer_id: "", // String
}
// Billing Data ( Optional )
                                                                                                                                                              [2]
const billing_data = {
    address1: "", // String
address2: "", // String
address3: "", // String
     pincode: "", // String
     city: "", // String
state: "", // String
country: "", // String
}
// Shipping Data ( Optional )
const shipping_data = {
    st shipping_data = {
first_name: "", // String
last_name: "", // String
mobile_no: "", // String
address1: "", // String
address2: "", // String
address3: "", // String
address3: "", // String
     pincode: "", // String
     city: "", // String
state: "", // String
country: "", // String
}
   // Payment Modes That Needs 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
   ]
```

```
// Create Order
try :
    orderCreateResponse = pinelabs.payment.create(txn_data, customer_data, billing_data, shipping_data,
    print(orderCreateResponse)
except Exception as e:
    print("Exception : " , e)

billing_data, shipping_data, udf_data, payment_mode, products_details)
```

- 3. It will return the following once executed
  - a. **Token**: Payment order token for processing of order
  - b. **URL**: URL using which the user can be directly redirected to the payment page where he/she can make the payment.
  - c. Status: Status of the order create api status if it worked successfully or not.

### **Success Response**

```
{
    "status": true,
    "redirect_url": "https://uat.pinepg.in/pinepg/v2/process/payment?token=S01wPSlIH%2bopelRVif7m7e4SgrTRIcKYx25YDY
    "token": "S01wPSlIH%2bopelRVif7m7e4SgrTRIcKYx25YDYfmgtbPOE%3d"
}
```

### Failure Response

```
Exception : DUPLICATE TRANSACTION ID RECEIVED FROM MERCHANT
```

### Fetch Order Process

In order for us to fetch an order detail we need to use the "fetch Method of Pinelabs class"

- 1. Create an instance of the Pinelabs class first and pass the following parameters
  - a. Merchant Id of the merchant provided by Pinelabs team
  - b. Merchant Access Code also provided by Pinelabs team
  - c. Merchant Secret also provided by Pinelabs team
  - d. Pg Mode which will be of type boolean (True for Testing and False for Production)

- 2. Now call fetch function of Pinelabs class's object and pass below parameters.
  - a. Transaction ID: Transaction id which was used during the order creation process

```
// Fetch Order
try :
    orderFetchResponse = pinelabs.payment.fetch("650acb67d3752")
    print({"response":orderFetchResponse})
except Exception as e:
    print("Exception : " , e)
```

### 3. Response

### **Success Response**

```
Ĉ
"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"
```

### **EMI Details Process**

In order for us to fetch EMI details for any product we need to use the "calculate method of emi class using Pinelabs Class"

- 1. Create an instance of the Pinelabs class first and pass the following parameters
  - a. Merchant Id of the merchant provided by Pinelabs team
  - b. Merchant Access Code also provided by Pinelabs team
  - c. Merchant Secret also provided by Pinelabs team
  - d. Pg Mode which will be of type boolean (True for Testing and False for Production)
- 2. You need to pass txn data containing amount\_in\_paisa or total amount, product details list of objects if multicart else list of single object, and you need to pass it into calculate function.

```
// Emi Calculation
const txn_data = {
    amount_in_paisa: "1000",
}

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

try :
    orderEmiResponse = pinelabs.emi.calculate(txn_data, products_details)
    print(orderEmiResponse)
except Exception as e:
    print("Exception : " , e)
```

3. Once executed it will return the following response

### Success Response

```
ß
"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
```

### Hash Verification Process

In order for us to verify hash of all the responses we get from the SDK to make sure there was no tampering with the response we need to use the "verify method of hash class using Pinelabs Class"

- 1. Create an instance of the Pinelabs class first and pass the following parameters
  - a. Merchant Id of the merchant provided by Pinelabs team
  - b. Merchant Access Code also provided by Pinelabs team
  - c. Merchant Secret also provided by Pinelabs team
  - d. Pg Mode which will be of type boolean (True for Testing and False for Production)
- 2. You need to pass response data along with hash you want to verify, but you need to remove hash and hash type from response data and then pass it into method.

```
// Verify Hash
try :
    hash = orderResponse["ppc_DIA_SECRET"]

keys_to_remove = ["ppc_DIA_SECRET", "ppc_DIA_SECRET_TYPE"]

for key in keys_to_remove:
    orderResponse.pop(key, None)

isVerified = pinelabs.hash.verify(hash, orderResponse)
    print(isVerified)
except Exception as e:
    print("Exception : " , e)
```

4. Once Executed it'll return boolean response whether it was verified or not (True/False)

### **TDR/GST Information:**

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

### TLS 1.2 information:

- Python 2.7.9 and Python 3.3 and above support TLS 1.2.

Note: The availability may depend on the OpenSSL version linked with Python.