

This is a step by step tutorial to show you how to integrate your python application with the MOMO api.

Steps summary:

1. Sign up for an account : <https://momodeveloper.mtn.com/>
2. Get a product subscription key
3. Create an API user
4. Create an API key
5. Generate a JWT token
6. Make authenticated API requests

MTN MoMo API

1. sign up/login to <https://momodeveloper.mtn.com/>
2. Go to **products** link and subscribe to :

Collection Widget : Receive mobile money payments on your website through a USSD or QR code

Collection : Enable remote collection of bills, fees or taxes

Disbursements : Automatically deposit funds to multiple users

Remittances : Remit funds to local recipients from the diaspora with ease

Subscribe to any of the above products you need to use. For each product you subscribed you will get 2 keys in your profile :

Primary key : *****

Secondary key : *****

3. Generate API user id

Go to link **API Sandbox** ----> **Sandbox User Provisioning** ----> **POST /apiuser - POST** ---> **Try it**

- Generate UUID4 from : <https://www.uuidgenerator.net/>
e.g. `e0bacda2-8488-4bd2-8161-875918b23f62`
- copy the generated **UUID4** and paste it to **X-Reference-Id**
- in request body you can put your domain name
e.g.

```
{  
  "providerCallbackHost": "yourdomainname.com"  
}
```

The click send

Output sample if successfully runned:

Response status

201 Created

Response latency

448ms

Response content

Request-Context: appld=cid-v1:e996501c-e721-4ac1-97ff-dc6887b85e8c

Date: Sat, 06 Feb 2021 05:54:26 GMT

Content-Length: 0

4. Generate API KEY

Go to link **API Sandbox** ----> **Sandbox User Provisioning** ----> **POST /post-v1_0-apiuser/{X-reference-id}/apikey-POST** ---> **Try it**

- **copy the early generated UUID4 and paste it to X-Reference-Id**
- **click send**

Output sample if successfully runned:

Response status

201 Created

Response latency

208 ms

Response content

Request-Context: appld=cid-v1:e996501c-e721-4ac1-97ff-dc6887b85e8c

Date: Sat, 06 Feb 2021 06:00:52 GMT

Content-Length: 45

Content-Type: application/json; charset=utf-8

```
{
  "apiKey": "****7011e6ce472aa3bd89c2debd****"
}
```

Go to link **API Sandbox** ---->**Collection** -->**POST/Token-POST** -->**Try it**

Authorization <--should be (api user id: api key) basic encoded in base64. To achieve this go to <https://www.base64encode.org/>

- **copy and paste the api user id**
- **insert the colon ":"**
- **copy and paste api key**
e.g. : api user id:api key
- **click encode to generate a string**
- **copy the generated string and paste it:** Go to link **API Sandbox ---->Collection -->POST/Token-POST -->Try it -->Autorization** (you must write **Basic** then put space then **paste** the generated string)
- **click send**

Response status

Response latency

```
Date: Sat, 06 Feb 2021 06:26:45 GMT  
Content-Length: 628  
Content-Type: application/json; charset=utf-8  
  
{  
  "access_token":  
    "*****OijKV1QiLCJhbGciOiJSMjU2In0.eyJjbGlbnRJZCI6ImUwYmFjZGEyLTg0ODgtNGJkMi04MTYxL  
Tg3NTkxOGlyM2Y2MilsImV4cGlyZXMiOiIyMDIxLTAyLTA2VDA3Ojl2OjQ1LjMxNyIsInNlc3Npb25jZCI6  
lHJhOGZIYjFILTlwMTUtNDViNS05NjhLWWMzOGQyMzk3ZDE3YSJ9.I_xt2h04hHDNEe9HHa_BxMDL1a  
E2ZWPLnJw-lJrhQk0O009j9kdGGExvSUF1yXaxHM-n_0y2PGBVi3XGsqttopKMUT1BLK1Q4uMe4y6-  
I6THJ0nARIfSnabigTVECTr9RWeB8vuovM0Z8oAlnk7QgsByj9ku8qRMVTysAD3tEHUtINLBVvBPww4b  
60Onlnw73mszo6oLc_VhUlRD6tk2rVst7uYOStAtR9xEAqU9KJKQQj1UdMoJOy5no2oBJAKu_gczyD  
DyZnPeyOwpO3Yv4FVcmk99ZloZs3dZzk0hpDNec93GZ4YzqXjrZ4volwV9X5dHVcmLUd7z1JHZ***  
**",
```

Content-Type: application/json; charset=utf-8

```
"access token":
```

*****OijKV1QiLCJhbGciOiJSMjU2In0.eyJjbGllbnRjZCI6ImUwYmFjZGEyLTg0ODgtNGJkMi04MTYxL
Tg3NTkxOGlyM2Y2MilsImV4cGlyZXMiOiIyMDIxLTAyLTA2VDA3OjI2OjQ1LjMxNyIsInNlc3Npb25JZCI6
IjVhOGZIYjFILTlwMTUtNDViNS05NjhLWmZOGQyMzk3ZDE3YSJ9.I_xt2h04hHDNEe9HHa_BxMDL1a
E2zWPLnjw-lJrhQk0O009j9kdGGExvSUF1yXaxHM-n_0y2PGBVi3XGsqdtopKMUT1BLK1Q4uMe4y6-
l6THJ0nARIfSnabigTVECTr9RWeB8vuovM0Z8oAlNk7QgsByj9ku8qRMVTysAD3tEHUtINLBVvBPwv4b
60OnInw73mszo6oLc_VhUloRD6tk2rVst7uYOstAtR9xEaQ9KJKQqj1UdMoJ0y5no2oBJAKu_gczyD
DyZnPeyOwpO3Yv4FVcmk99ZloZs3dZzk0hpDNec93GZ4YzqXjrZ4volwV9X5dHVcmLud7z1JHZ***
**"

```
"token_type": "access_token",  
"expires_in": 3600  
}
```

6. Request to pay

Go to link **API Sandbox** ----> **Collection** --> **POST/requesttopay - POST**

- in **Authorization** (you must write **Bearer** then put space then **paste** the **Access token** obtained earlier)
- in **X-Reference-Id** (copy and paste the **API user id**)
- in **X-Target-Environment** (**Sandbox**)
- **Request body** {
 "amount": "10",
 "currency": "EUR",
 "externalId": "1234",
 "payer": {
 "partyIdType": "MSISDN",
 "partyId": "250784803644"
 },
 "payerMessage": "Pay rent",
 "payeeNote": "Pay Rent"
}
- click send

Output sample if successfully runned:

Response status

202 Accepted

Response latency

186 ms

Response content

Request-Context: applId=cid-v1:e996501c-e721-4ac1-97ff-dc6887b85e8c

Date: Sat, 06 Feb 2021 06:53:33 GMT

Content-Length: 0