

## Merchant POS app

**Register your consumer**

Thanks for registering your consumer with Banco Hipotecario API Sandbox!  
Here is your developer information. Please save it in a secure place.

Please save it in a secure location.

Consumer ID 0ff02a65-c73b-4527-b6fe-53e4e8cdbd46

Application TypePublic

Application Name **UnMillonDeAmigos POS**

User redirect URL unmillondeamigos:/

Developer Emailjvera@technoprepay.com

App DescriptionAndroid APP for mobile and POS terminals that uses Open Bank Project to create and manage donation certificates. Participating merchants both in El Salvador and USA invite customers to donate a fixed amount for ONG and charities, The app creates an account and loads the donation amount, printing or displaying a QR code with the account. The user can scan the QRcode and store the donation certificate in their mobile phone (UnMillondeAMigos APP) and add additional funds or redeem for tax receipt. The app will promote organization helping women in El Salvador to help raise funds for their causes.

Client certificateNone

Consumer Key [ojjd3no02ladosh0dqts425vzcik3u0zp gm4uwzp](#)

Consumer Secret [zybqgrruc5tgow5p2lsdonuapby5c3cgyy5vof4w](#)

OAuth 1.0a

Endpoint<https://obp-apisandbox.bancohipotecario.com.sv/oauth/initiate>

OAuth 1.0a DocumentationHow to use OAuth for OpenBankProject

Direct Login

Endpoint<https://obp-apisandbox.bancohipotecario.com.sv/my/logins/direct>

Direct Login DocumentationHow to use Direct Login

## Customer mobile App

**Register your consumer**

Thanks for registering your consumer with Banco Hipotecario API Sandbox!  
Here is your developer information. Please save it in a secure place.

Please save it in a secure location.

Consumer ID a9f975c3-e68f-4729-bc8f-93f570a36be0

Application TypePublic

Application Name **Un Millon De Amigos APP**

User redirect URL unmillondeamigosapp:/

Developer Emailjvera@technoprepay.com

App DescriptionCompanion app for Un Millon de Amigos POS, in which donors can scan and save donation certificates in their phone, check their balance and

add additional funds using Bitcoins from USA o El Salvador. They can select participating charities that support the women in El Salvador. The App uses Open Bank System to host the accounts and manage the access to the app.

Client certificateNone

Consumer Key [no1qbxqs3jtvnwak2ijye142r1sn3afr4kqvl13](#)

Consumer Secret [elgmlxwnqe5kejtt0214szgmaaxmzxrezuoeh4w](#)

OAuth 1.0a

Endpoint<https://obp-apisandbox.bancohipotecario.com.sv/oauth/initiate>

OAuth 1.0a Documentation[How to use OAuth for OpenBankProject](#)

Direct Login Endpoint

<https://obp-apisandbox.bancohipotecario.com.sv/my/logins/direct>

Direct Login Documentation[How to use Direct Login](#)

#### Steps:

- a) Create bank
- b) Create account for your Admin user and give rights
- c) Invite User to bank (the merchants)  
</obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/user-invitation>

#### 1) Create bank:

</obp/v4.0.0/banks>

Request Header

```
{ "id": "slv.09.sv.unmillondeamigos", "short_name": "UnMillonDeAmigos",
  "full_name": "UnMillonDeAmigos El Salvador", "logo": "logo",
  "website": "www.unmillondeamigos.ca", "bank_routings": [{ "scheme": "Bank_ID",
  "address": "gh.29.es" }], "attributes": [{ "name": "ACCOUNT_MANAGEMENT_FEE",
  "value": "5987953" }]}
```

<https://obp-apisandbox.bancohipotecario.com.sv/obp/v4.0.0/banks>

```
{
  "id": "slv.09.sv.unmillondeamigos",
  "short_name": "UnMillonDeAmigos",
  "full_name": "UnMillonDeAmigos El Salvador",
  "logo": "logo",
  "website": "www.unmillondeamigos.ca",
  "bank_routings": [{
```

```

    "scheme": "OBP",
    "address": "slv.09.sv.unmillondeamigos"
  }, {
    "scheme": "Bank_ID",
    "address": "gh.29.es"
  }],
  "attributes": []
}

```

Create USER:

```

{ "email": "felixsmith@example.com", "username": "felixsmith", "password": "String",
  "first_name": "Simon", "last_name": "Redfern"}

```

### 1) Add entitlement for user -

#### a) CanCreateAccount

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```

{ "bank_id": "slv.09.sv.unmillondeamigos", "role_name": "CanCreateAccount"}

```

#### b) CanCreateEntitlementAtOneBank

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```

{ "bank_id": "slv.09.sv.unmillondeamigos",
  "role_name": "CanCreateEntitlementAtOneBank"}

```

#### b.1) Add access to a merchant to create cards , login as superuser

POST:

/obp/v4.0.0/users/14ae6f0c-b380-4edc-9cfe-9d01371b919c/entitlements

HEADER:

```

{ "bank_id": "slv.09.sv.unmillondeamigos", "role_name": "CanCreateAccount"}

```

```

{
  "entitlement_id": "6eaa4435-6735-4c37-880d-2fcb7a3d07f7",
  "role_name": "CanCreateAccount",
  "bank_id": "slv.09.sv.unmillondeamigos"
}

```

#### c) CanGetDynamicEndpoint\_ConnectedWallets238

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos",  
  "role_name":"CanGetDoubleEntryTransactionAtOneBank"}
```

#### **d)CanUpdateCustomerCreditLimit**

POST:

/obp/v4.0.0/users/14ae6f0c-b380-4edc-9cfe-9d01371b919c/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos",  
  "role_name":"CanUpdateCustomerCreditLimit"}
```

#### **d.1) Add access to a merchant to set credit limit , login as superuser**

POST:

/obp/v4.0.0/users/14ae6f0c-b380-4edc-9cfe-9d01371b919c/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos", "role_name":"CanCreateAccount"}
```

```
{  
  "entitlement_id" : "cda5a272-be1d-4bef-b9d3-3bb80e8137a4",  
  "role_name" : "CanUpdateCustomerCreditLimit",  
  "bank_id" : "slv.09.sv.unmillondeamigos"  
}
```

#### **e) CanGetDynamicEndpoint\_ConnectedWallets238 (FAILED!)**

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos",  
  "role_name":"CanGetDynamicEndpoint_ConnectedWallets238"}
```

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos",  
  "role_name":"CanGetDynamicEndpoint_CoreClientsInfo398"}
```

### **f) Wallets (FAILED!)**

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos",  
"role_name":"CanGetDynamicEndpoint_ConnectedWallets238"}
```

g) email invitations

POST:

/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements

HEADER:

```
{ "bank_id":"slv.09.sv.unmillondeamigos", "role_name":"CanCreateUserInvitation"}
```

## **2) Set credit limit for merchant**

/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/customers/CUSTOMER\_ID/credit-limit

```
{ "credit_limit":{ "currency":"USD", "amount":"1000" }}
```

## **3) Create Merchants Account:**

### **USD\_ACCT**

POST:

/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/accounts

HEADER:

```
{ "user_id":"13ca85fa-c0c2-4d51-9a1e-935b17948c09", "label":"Merchant_Account",  
"product_code":"0001", "balance":{ "currency":"USD", "amount":"0" },  
"branch_id":"MAIN", "account_routings":[{"scheme":"AccountNumber",  
"address":"M000001" }]}
```

### **BTC\_ACCT public address:**

**zpub6mt4QZkuqb1ch5Vu1detB2t3Rc3x3J8Ao8gGJsJ1BTMpZAeEBQk88Fb4aBNV  
ScXYxj1GcbJrBtLKvHZYxtoQxtod9tN4ozQt49LJm2VPZsU**

### **Lightning public address:**

**03d6e0297ab8949f4a8f283ec4d95aec4223d4f8a2fa30c3b73f6050ef602b893f**

=====

### **USD\_ACCT**

POST:

/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/accounts

HEADER:

```
{ "user_id":"14ae6f0c-b380-4edc-9cfe-9d01371b919c", "label":"Merchant_Account",  
  "product_code":"0001", "balance":{"currency":"USD", "amount":"0" },  
  "branch_id":"MAIN", "account_routings":[{"scheme":"AccountNumber",  
  "address":"M000002" }]}
```

**BTC\_ACCT public address:**

**zpub6mt4QZkuqb1ch5Vu1detB2t3Rc3x3J8Ao8gGJsJ1BTMpZAeEBQk88Fb4aBNV  
ScXYxj1GcbJrBtLKvHZYxtoQxtod9tN4ozQt49LJm2VPZsU**

**Lightning public address:**

**03d6e0297ab8949f4a8f283ec4d95aec4223d4f8a2fa30c3b73f6050ef602b893f**

=====

## 2) BTC account

## 3) Bitcoin account

a) **Bitcoin Public Address**

b) **Move money from Bitcons to USD account**

## 4) Create Gift Cards (Accounts (\$))

POST:

/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/accounts

HEADER:

```
{ "user_id":"13ca85fa-c0c2-4d51-9a1e-935b17948c09", "label":"GiftCard",  
  "product_code":"0002", "balance":{"currency":"USD", "amount":"0" },  
  "branch_id":"MAIN", "account_routings":[{"scheme":"AccountNumber",  
  "address":"1234567890123456" }]}
```

## 5) Balance Gift Cards (\$)

## 6) Load funds gift card (\$)

Merchant moves money from merchant account to gift card account debiting merchant and transfer to gift card. Credit limit should be increased to allow that.

Use:

**/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/accounts/dbccf261-6227-4d2f-947c-5427acefdfab/owner/transaction-request-types/ACCOUNT/transaction-requests**

```
{ "to":{ "bank_id":"slv.09.sv.unmillondeamigos",  
"account_id":"a76924d5-ef3a-4236-8b70-1b729b36e27c" }, "value":{  
"currency":"USD", "amount":"50" }, "description":"Gift Card Load"}
```

## **7) Redeem gift cards (\$)**

- **Get account by card number (routing)**

**/obp/v4.0.0/management/accounts/account-routing-query**

```
{ "bank_id":"slv.09.sv.unmillondeamigos", "account_routing":{  
"scheme":"AccountNumber", "address":"M000001" }}
```

- **Get account by card number (routing)**

**/obp/v4.0.0/management/accounts/account-routing-query**

```
{ "bank_id":"gh.29.uk", "account_routing":{ "scheme":"AccountNumber",  
"address":"4930396" }}
```

## **8) Create Customers (linked to Gift Cards)**

### **More Gift CARDS CREATED**

**/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/accounts**

HEADER:

```
{ "user_id":"13ca85fa-c0c2-4d51-9a1e-935b17948c09", "label":"GiftCard",  
"product_code":"0002", "balance":{ "currency":"USD", "amount":"0" },  
"branch_id":"MAIN", "account_routings":[{"scheme":"AccountNumber",  
"address":"1234567890123457" }]}
```

## **9) Get transactions:**

**obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/accounts/0ade5270-2a22-4acf-9f3e-25b7e1cff8df/VIEW\_ID/transactions**

**10) Invite customer:**

**/obp/v4.0.0/banks/slv.09.sv.unmillondeamigos/user-invitation**

```
{ "first_name":"Jose", "last_name":"Peres", "email":"chelevera2@gmail.com",  
  "company":"Corner Store", "country":"El Salvador", "purpose":"Merchant"}
```

---

**Accounts USD**

```
{  
  "user_name":"Thiago.Busd.01",  
  "password":"X!601fc5d2",  
},  
{  
  "user_name":"Camila.Busd.01",  
  "password":"X!02006fd1",  
},  
{  
  "user_name":"Timo.Busd.01",  
  "password":"X!c9a49d53",  
},  
{  
  "user_name":"Isabella.Busd.01",  
  "password":"X!42b230fd",  
},  
  
{  
  "user_name":"Santiago.Busd.01",  
  "password":"X!cb802a67",  
},
```