1) Create bank:
   /obp/v4.0.0/banks

{ "id":"slv.09.sv.pisto", "short_name":"Pisto.NET", "full_name":"Pisto.NET El Salvador", "logo":"logo", "website":"www.pisto.net", "bank_routings":[{ "scheme":"Bank_ID", "address":"gh.29.es" }], "attributes":[{ "name":"ACCOUNT_MANAGEMENT_FEE", "value":"5987953" }]}

Answer:
{
  "id":"slv.09.sv.pisto",
  "short_name":"Pisto.NET",
  "full_name":"Pisto.NET El Salvador",
  "logo":"logo",
  "website":"www.pisto.net",
  "bank_routings":[{
    "scheme":"OBP",
    "address":"slv.09.sv.pisto"
  },{
    "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) CanCreateUserCustomerLink
   POST:
   /obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
   HEADER:
   { "bank_id":"slv.09.sv.pisto", "role_name":"**CanCreateUserCustomerLink**"}

{
  "entitlement_id":"a02a5ca6-b670-47e5-b49b-07f658983215",
  "role_name":"CanCreateUserCustomerLink",
  "bank_id":"slv.09.sv.pisto"
}

a) CanCreateCustomer

POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto", "role_name":"**CanCreateCustomer**"}

```
{
  "entitlement_id":"86c0daf5-7f13-4e98-8a9e-d27314762672",
  "role_name":"CanCreateCustomer",
  "bank_id":"slv.09.sv.pisto"
}
```

a)CanGetAnyUser (FAILED)

POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto", "role_name":"**CanGetAnyUser**"}

b) CanCreateAccount

POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto", "role_name":"CanCreateAccount"}

b) CanCreateEntitlementAtOneBank

POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto", "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.pisto", "role_name":"CanCreateAccount"}

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

c) CanGetDynamicEndpoint_ConnectedWallets238
POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto", "role_name":"CanGetDoubleEntryTransactionAtOneBank"}

d)CanUpdateCustomerCreditLimit
POST:
/obp/v4.0.0/users/**14ae6f0c-b380-4edc-9cfe-9d01371b919c**/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto", "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.pisto", "role_name":"CanCreateAccount"}

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

e) CanGetDynamicEndpoint_ConnectedWallets238   (FAILED!)
POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto",
"role_name":"**CanGetDynamicEndpoint_ConnectedWallets238**"}

POST:
/obp/v4.0.0/users/13ca85fa-c0c2-4d51-9a1e-935b17948c09/entitlements
HEADER:
{ "bank_id":"slv.09.sv.pisto",
"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.pisto",
"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.pisto", "role_name":"**CanCreateUserInvitation**"}

2) Set credit limit for merchant

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

{ "to":{   "bank_id":"slv.09.sv.pisto",
"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.pisto", "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.pisto/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.pisto/accounts/0ade5270-2a22-4acf-9f3e-25b7e1cff8df/VIEW_ID/transactions

10) Invite customer:
/obp/v4.0.0/banks/slv.09.sv.pisto/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",
},
```

11) Get all customers for PISTO.NET

/obp/v4.0.0/users/current/customers

```
{
  "customers":[{
    "bank_id":"slv.09.sv.pisto",
    "customer_id":"245dc6a7-3610-4589-8776-6fbd12e2734a",
    "customer_number":"1774970911",
```
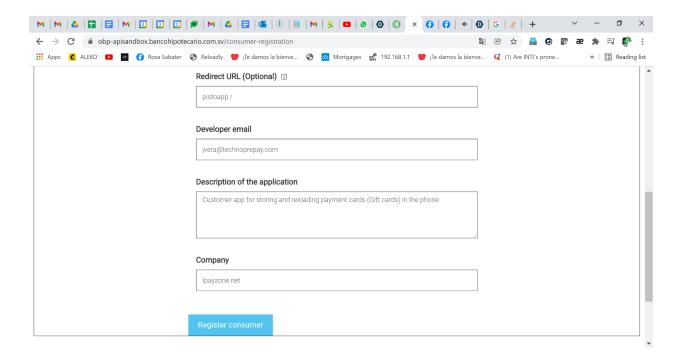
```json
    "legal_name":"Alex Vera",
    "mobile_phone_number":"+6045629392",
    "email":"alex@ipayzone.net",
    "face_image":{
      "url":"www.openbankproject",
      "date":"2017-09-19T00:00:00Z"
    },
    "date_of_birth":"2017-09-19",
    "relationship_status":"single",
    "dependants":1,
    "dob_of_dependants":["2017-09-19"],
    "credit_rating":{
      "rating":"OBP",
      "source":"OBP"
    },
    "credit_limit":{
      "currency":"USD",
      "amount":"0"
    },
    "highest_education_attained":"Engineer",
    "employment_status":"worker",
    "kyc_status":true,
    "last_ok_date":"2017-09-19T00:00:00Z",
    "title":"Dr.",
    "branch_id":"DERBY6",
    "name_suffix":"Sr",
    "customer_attributes":[]
  }]
}
```

12) Create customer
/obp/v4.0.0/banks/slv.09.sv.pisto/customers
POST:
{ "legal_name":"Eveline Tripman", "mobile_phone_number":"+44 07972 444 876",
"email":"felixsmith@example.com", "face_image":{
"url":"www.openbankproject", "date":"2017-09-19T00:00:00Z" },
"date_of_birth":"2017-09-19T00:00:00Z", "relationship_status":"single",
"dependants":1, "dob_of_dependants":["2017-09-19T00:00:00Z"],
"credit_rating":{ "rating":"OBP", "source":"OBP" }, "credit_limit":{
"currency":"USD", "amount":"0" }, "highest_education_attained":"Master",
"employment_status":"worker", "kyc_status":true,

"last_ok_date":"2017-09-19T00:00:00Z", "title":"Dr.", "branch_id":"DERBY6",
"name_suffix":"Sr"}

==
/obp/v4.0.0/banks/slv.09.sv.pisto/customers
POST:
{ "legal_name":"Alex Vera", "mobile_phone_number":"+6045629392",
"email":"alex@ipayzone.net",

"face_image":{ "url":"www.openbankproject", "date":"2017-09-19T00:00:00Z"
}, "date_of_birth":"2017-09-19T00:00:00Z", "relationship_status":"single",
"dependants":1, "dob_of_dependants":["2017-09-19T00:00:00Z"],
"credit_rating":{ "rating":"OBP", "source":"OBP" }, "credit_limit":{
"currency":"USD", "amount":"0" }, "highest_education_attained":"Engineer",
"employment_status":"worker", "kyc_status":true,
"last_ok_date":"2017-09-19T00:00:00Z", "title":"Dr.", "branch_id":"DERBY6",
"name_suffix":"Sr"}

    bank_id   "slv.09.sv.pisto"
    customer_id   "245dc6a7-3610-4589-8776-6fbd12e2734a"
    customer_number   "1774970911"
    legal_name   "Alex Vera"
    mobile_phone_number   "+6045629392"
    email   "alex@ipayzone.net"
    face_image
      url   "www.openbankproject"
      date   "2017-09-19T00:00:00Z"

    date_of_birth   "2017-09-19T00:00:00Z"
    relationship_status   "single"
    dependants   1
    dob_of_dependants   "2017-09-19T00:00:00Z"
    credit_rating
      rating   "OBP"
      source   "OBP"

    credit_limit
      currency   "USD"
      amount   "0"

```
highest_education_attained  "Engineer"
employment_status  "worker"
kyc_status  true
last_ok_date  "2017-09-19T00:00:00Z"
title  "Dr."
branch_id  "DERBY6"
name_suffix  "Sr"
```

===

13) Customer link
/obp/v4.0.0/banks/slv.09.sv.pisto/user_customer_links

{ **"user_id":"**13ca85fa-c0c2-4d51-9a1e-935b17948c09**",**
"customer_id":"245dc6a7-3610-4589-8776-6fbd12e2734a**"}**

```
{
  "user_customer_link_id":"3f26721c-5b9d-4b3e-a5ed-970702bb2c13",
  "customer_id":"245dc6a7-3610-4589-8776-6fbd12e2734a",
  "user_id":"13ca85fa-c0c2-4d51-9a1e-935b17948c09",
  "date_inserted":"2021-12-01T22:04:59Z",
  "is_active":true
}
```

Setting APP

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← → C ⟳ 🔒 obp-apisandbox.bancohipotecario.com.sv/consumer-registration

⊞ Apps | 🎨 ALEKO | ▶ YouTube | HD | 🔵 Rosa Sabater | 🔴 Reloadly | 💝 ¡Te damos la bienve... | 🌐 | 🏦 Mortgages | 🖧 192.168.1.1 | 💝 ¡Te damos la bienve... | 🔴 (1) Are INTJ's prone... | » | 📋 Reading list

Redirect URL (Optional) ⓘ

> pistoapp:/

Developer email

> jvera@technoprepay.com

Description of the application

> Customer app for storing and reloading payment cards (Gift cards) in the phone

Company

> lpayzone.net

Register consumer

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   239678a8-7fd2-4b79-99b2-dbaadaedc55e
Application TypePublic
Application NamePisto App
User redirect URL pistoapp:/
Developer Emailjvera@technoprepay.com
App DescriptionCustomer app for storing and reloading payment cards (Gift cards) in the phone
Client certificateNone
Consumer Key   nc53sye1pzxxdubb0f3f4hrngyhhnqtj5dx1pkwz
Consumer Secret   rqqreljp0ax50kphq0ymc3rthh3nedj0q4v4hsx4
OAuth 1.0a Endpointhttps://obp-apisandbox.bancohipotecario.com.sv/oauth/initiate
OAuth 1.0a DocumentationHow to use OAuth for OpenBankProject
Direct Login Endpointhttps://obp-apisandbox.bancohipotecario.com.sv/my/logins/direct
Direct Login DocumentationHow to use Direct Login
Terms and Conditions Privacy Policy Twitter Github API Documentation

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	239678a8-7fd2-4b79-99b2-dbaadaedc55e
Application Type	Public
Application Name	Pisto App
User redirect URL	pistoapp:/
Developer Email	jvera@technoprepay.com
App Description	Customer app for storing and reloading payment cards (Gift cards) in the phone
Client certificate	None
Consumer Key	nc53sye1pzxxdubb0f3f4hrngyhhnqtj5dx1pkwz

Consumer Secret	rqqreljp0ax50kphq0ymc3rthh3nedj0q4v4hsx4
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