

# MyBank API Specification Doc

Version	Date	Author	Description
1.0	23-Nov-2017	David Borja (capgemini.com)	Initial draft
1.1	24-Nov-2017	David Borja (capgemini.com)	Adding <b>createCustomerProduct</b> and <b>getProductList</b> specification
1.2	26-Nov-2017	David Borja (capgemini.com)	Adding <b>getCustomerProducts</b> endpoint specification
1.3	28-Nov-2017	David Borja (capgemini.com)	Change save transaction service response

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# Methods

## 1. sign-up

Signs up the user with the system to create new customer

### Request

Method	URL
POST	/api/1.0/customer/sign-up

Type	Params	Values
POST	name	string
POST	surname	string
POST	customer_id	string
POST	email	string
POST	mobile	string
POST	phone [optional]	string
POST	password	string

#### name

Customer's name

#### surname

Customer's surname

#### customer\_id

Customer's id (document id)

#### email

Customer's name

#### mobile

Customer's mobile number

#### phone

Customer's phone number

**password**  
Customer's password

## Response

Status	Response
200	<pre>{   "status": {     "status_code": 0,     "status_desc": "SUCCESS"   },   "response": "Customer created successfully" }</pre>
403	
400	
400	
401	
401	
500	<pre>{   "timestamp": "",   "status": 500,   "error": "Internal Server Error",   "exception": "",   "message": "",   "path": "/api/1.0/customer/sign-up" }</pre>

## 2. login

Logs in the customer and obtain the authentication token

## Request

Method	URL
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<b>POST</b>	/login
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Type	Params	Values
POST	customerId	string
POST	password	string

#### customerId

The customer's id (document id)

#### password

The customer's password.

## Response

Status	Response
200	<p><b>Response is an empty body with authorization header containing the authentication token.</b></p> <p>Header: authorization -&gt; Bearer xyzw</p> <p>Where xyzw is the authentication token</p>
400	
400	
401	<pre>{   "timestamp": "",   "status": 401,   "error": "Unauthorized",   "message": "Authentication Failed: Bad credentials",   "path": "/login" }</pre>
500	<pre>{   "timestamp": "",   "status": 500,   "error": "Internal Server Error",</pre>

	<pre> "exception": "", "message": "", "path": "/api/1.0/customer/sign-up" } </pre>
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### 3. Get Customer By Customer Id

Gets the customer information by customer id (document id)

#### Request

Method	URL
GET	/api/1.0/customer/{customerId}/get

Type	Params	Values
HEAD URL_PARAM	Authorization customerId	string string

#### authorization

Authorization token gotten from login request

#### customerId

The customer's id (document id)

#### Response

Status	Response
200	<b>Customer Information</b>  Example response:-

	<pre>{   "name": "Mike",   "surname": "Ness",   "customer_id": "4012345",   "email": "mike.ness@socialdistortion.com",   "mobile": "3119990011",   "phone": "+5749990011",   "password": "*****" }</pre>
400	
400	
401	
403	<pre>{   "timestamp": "",   "status": 403,   "error": "Forbidden",   "message": "Access Denied",   "path": "/api/1.0/customer/{customerId}/get" }</pre>
500	<pre>{   "timestamp": "",   "status": 500,   "error": "Internal Server Error",   "exception": "",   "message": "",   "path": "/api/1.0/customer/{customerId}/get " }</pre>

## 4. Get Customer Product

Get product information for customer

### Request

Method	URL
GET	/api/1.0/product/{customerId}/{productNumber}/get



Type	Params	Values
HEAD	Authorization	string
URL_PARAM	customerId	string
URL_PARAM	productNumber	string

### Authorization

Authorization token gotten from login request

### customerId

The customer's id (document id)

### productNumber

The product's number

## Response

Status	Response
200	<b>Information about customer's product</b>  Example response:-  <pre>{   "customer_id": "3012345",   "product_name": "Savings Account",   "creation_date": "2017-11-22T17:00:00.000+0000",   "termination_date": null,   "balance": 10000,   "status": "ACTIVE",   "product_number": "1000000003" }</pre>
400	
400	
401	
403	{

	<pre> "timestamp": "", "status": 403, "error": "Forbidden", "message": "Access Denied", "path": "/api/1.0/product/{customerId}/{productNumber}/get" } </pre>
500	<pre> {   "timestamp": "",   "status": 500,   "error": "Internal Server Error",   "exception": "",   "message": "",   "path": "/api/1.0/product/{customerId}/{productNumber}/get" } </pre>

## 5. Get Customer Products

Get product list for customer

### Request

Method	URL
GET	/api/1.0/product/{customerId}/get

Type	Params	Values
HEAD URL_PARAM	Authorization customerId	string string

#### Authorization

Authorization token gotten from login request

#### customerId

The customer's id (document id)

## Response

Status	Response
200	<b>Information about customer's products</b>  Example response:-  <pre>[   {     "customer_id": "3012345",     "product_name": "Savings Account",     "creation_date": "2017-11-22T17:00:00.000+0000",     "termination_date": null,     "balance": 10000,     "status": "ACTIVE",     "product_number": "1000000003"   } ]</pre>
400	
400	
401	
403	<pre>{   "timestamp": "",   "status": 403,   "error": "Forbidden",   "message": "Access Denied",   "path": "/api/1.0/product/{customerId}/get" }</pre>
500	<pre>{   "timestamp": "",   "status": 500,   "error": "Internal Server Error",   "exception": "",   "message": "",   "path": "/api/1.0/product/{customerId}/get" }</pre>

## 6. Create Customer Product

Create product for customer

### Request

Method	URL
POST	/api/1.0/product/createCustomerProduct

Type	Params	Values
HEAD	Authorization	string
POST	product_id	integer
POST	customer_id	string

#### Authorization

Authorization token gotten from login request

#### product\_id

The product's id (savings, checking, etc)

#### customer\_id

The Customer's identification number (document id)

### Response

Status	Response
200	<p>The product number created in “response” field</p> <p>Example response:-</p> <pre>{   "status": {     "status_code": 0,     "status_desc": "SUCCESS"   },   "response": "1009195709"</pre>

	}
400	
400	
401	
403	{ "timestamp": "", "status": 403, "error": "Forbidden", "message": "Access Denied", "path": "/api/1.0/product/createCustomerProduct" }
500	{ "timestamp": "", "status": 500, "error": "Internal Server Error", "exception": "", "message": "", "path": "/api/1.0/product/createCustomerProduct" }

## 7. Get Product List

Get list of bank products (savings, checking, etc)

### Request

Method	URL
GET	/api/1.0/product/get

Type	Params	Values
HEAD	Authorization	string

## Authorization

Authorization token gotten from login request

## Response

Status	Response
200	<p><b>The product list of bank</b></p> <p>Example response:-</p> <pre>[   {     "id": 1,     "name": "Savings Account",     "description": "Savings Account",     "status": "ACTIVE"   },   {     "id": 2,     "name": "Checking Account",     "description": "Checking Account",     "status": "ACTIVE"   } ]</pre>
400	
400	
401	
403	<pre>{   "timestamp": "",   "status": 403,   "error": "Forbidden",   "message": "Access Denied",   "path": "/api/1.0/product/get" }</pre>
500	<pre>{   "timestamp": "",   "status": 500,   "error": "Internal Server Error",   "exception": "" }</pre>

	<pre> "message": "", "path": "/api/1.0/product/get" } </pre>
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## 8. Save transaction

Stores the transaction information

### Request

Method	URL
<b>POST</b>	/api/1.0/transaction/save

Type	Params	Values
HEAD	Authorization	string
POST	customer_id	string
POST	product_number	string
POST	channel_id	integer
POST	amount	decimal
POST	type	integer

#### Authorization

Authorization token gotten from login request

#### customer\_id

The customer's id (document id)

#### product\_number

The product's number

#### channel\_id

The channel's id

#### amount

The amount of transaction

## type

The type of transaction

## Response

Status	Response
201	<b>Information about transaction stored</b>  Example response:-  <pre>{   "message": "success",   "detail": {     "customer_id": "1012345",     "product_number": "1000000001",     "channel_id": 2,     "amount": 2000,     "date": "2017-11-28T16:20:55.335+0000",     "status": "APPROVED",     "type": 3,     "transaction_number": 1780   } }</pre>
400	
400	<pre>{   "message": "Customer product not found",   "detail": null }</pre>
401	
403	<pre>{   "timestamp": "",   "status": 403,   "error": "Forbidden",   "message": "Access Denied",   "path": "/api/1.0/transaction/save " }</pre>
500	<pre>{</pre>



	<pre> "timestamp": "", "status": 500, "error": "Internal Server Error", "exception": "", "message": "", "path": "/api/1.0/transaction/save " } </pre>
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## 9. Get Last Transactions

Get the last transactions for a customer and product

### Request

Method	URL
GET	/api/1.0/transaction/getLast/{limit}/{customerId}/{productNumber}

Type	Params	Values
HEAD	Authorization	string
URL_PARAM	limit	integer
URL_PARAM	customerId	string
URL_PARAM	productNumber	string

#### Authorization

Authorization token gotten from login request

#### limit

The amount of last transactions

#### customerId

The customer's id (document id)

#### productNumber

The product's number

## Response

Status	Response
200	<p><b>Information about last {limit} transactions</b></p> <p>Example response:-</p> <pre>[   {     "customer_id": "1012345",     "product_number": "1000000001",     "channel_id": 2,     "amount": 5000,     "date": "2017-11-23T04:39:20.000+0000",     "status": "APPROVED",     "type": 3,     "transaction_number": 6252   },   {     "customer_id": "1012345",     "product_number": "1000000001",     "channel_id": 2,     "amount": 2000,     "date": "2017-11-24T02:10:30.000+0000",     "status": "APPROVED",     "type": 3,     "transaction_number": 6778   } ]</pre>
400	
400	
401	
403	<pre>{   "timestamp": "",   "status": 403,   "error": "Forbidden",   "message": "Access Denied",   "path": "/api/1.0/..." }</pre>
500	<pre>{</pre>

	<pre>"timestamp": "", "status": 500, "error": "Internal Server Error", "exception": "", "message": "", "path": "/api/1.0/..." }</pre>
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# Glossary

## Conventions

- **Client** - Client application.
- **Status** - HTTP status code of response.
- All the possible responses are listed under 'Responses' for each method. Only one of them is issued per request server.
- All response are in JSON format.
- All request parameters are mandatory unless explicitly marked as [optional]
- The type of values accepted for a *request* parameter are shown the the values column like this [**10**|<any number>]. The | symbol means OR. If the parameter is [optional], the default value is shown in blue bold text, as **10** is written in [**10**|<any number>].

## Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

**2XX** - Success of some kind

**4XX** - Error occurred in client's part

**5XX** - Error occurred in server's part

Status Code	Description
200	OK
201	Created
202	Accepted (Request accepted, and queued for execution)
400	Bad request
401	Authentication failure
403	Forbidden
404	Resource not found
405	Method Not Allowed
409	Conflict
412	Precondition Failed

413	Request Entity Too Large
500	Internal Server Error
501	Not Implemented
503	Service Unavailable