

# The Agile Monkeys - Test

## Technical Design

CUSTOMER DOMAIN

## API Rest

### Controller

- **URL:** */customer*

### Methods

#### Save Customer

Create or update a customer.

POST /

#### Description

This save endpoint will cover the update functionality too. If the customerId field in the request body is informed it will be an update behaviour, if it isn't a create one.

#### Parameters

Type	Name	Description	Schema
Body	customerId	Customer system identifier	Long
Body	name <i>required</i>	Customer name	String
Body	surname <i>required</i>	Customer surname	String
Body	documentId <i>required</i>	Customer document id	String
Body	picture	Customer picture url	String

#### Responses

HTTP Code	Description	Schema
201	Customer successfully created	Customer
200	Customer successfully updated	Customer
400	Bad Request. Incomplete required parameters.	HttpException
404	Not Found. Customer not found	HttpException

## Get Customer Details

Get all the information about a single customer given his identifier.

GET /{customerId}

### Parameters

Type	Name	Description	Schema
Path	customerId <i>required</i>	The customer system identifier	Long

### Responses

HTTP Code	Description	Schema
200	Returns a customer and its details.	Customer
404	Customer not found	HttpException

## List all customers

Return a list with all the customers in the system. The list will be paginated to limit the number of results in case there is a large number of them

GET /

### Parameters

Type	Name	Description	Schema
Query	page	Page field for pagination	Integer
Query	elementsPerPage	Element Per Page field for pagination	Integer

### Responses

HTTP Code	Description	Schema
200	Returns a paginated list with the customers	PaginatedList<Customer>
200	Returns an empty list if there is no customers	PaginatedList<Customer> <i>Empty</i>

## Delete customer

Delete a customer given its identifier.

```
DELETE /{customerId}
```

## Parameters

Type	Name	Description	Schema
Path	customerId <i>required</i>	The customer system identifier	Long

## Responses

HTTP Code	Description	Schema
200	Customer successfully deleted.	Http.OK
404	Customer not found	HttpException

## DTO objects

### Customer

Field	Description	Schema
customerId	Customer system identifier	Long
name	Customer name	String
surname	Customer surname	String
documentId	Customer document id	String
picture	Customer picture url	String
createdDate	The customer creation date	Instant
createdBy	The user who created the customer	String
updatedAt	The customer last modification date	Instant
updatedBy	The last user who modified the customer	String

## Database schema

### Table: Customer

Field	Description	Schema
id	Customer id	id
name	Customer name	varchar
surname	Customer surname	varchar
document_id	Customer document id	varchar
picture	Customer picture url	varchar
created_date	Customer creation date	timestamp
created_by	User who created the customer	varchar
updated_date	Customer last update date	timestamp
updated_by	User who created the customer	varchar

# Flowcharts

## Save Customer flow

