

Credit Card API - Access Guide

Version: 0.0.1-SNAPSHOT

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Overview



Credit Card Api is a RestFul application built with Spring Boot and Embedded MongoDB It's based on Level 3 of the famous [Richardson Maturity Model](#). This is one of the most discussed subjects about API design. This source code is hosted in <https://github.com/jonyfs/credit-card-api>.

Endpoints

Environment	Url
dev	http://localhost:8080/api
test	http://credit-card-api.testserver.com/api
production	https://creditcardapi.herokuapp.com/api

HTTP verbs



RESTful notes tries to adhere as closely as possible to standard HTTP and REST conventions in its use of HTTP verbs.

Verb	Usage
GET	Used to retrieve a resource
POST	Used to create a new resource

HTTP status codes



RESTful notes tries to adhere as closely as possible to standard HTTP and REST conventions in its use of HTTP status codes.

Status code	Usage
200 OK	The request completed successfully
201 Created	A new resource has been created successfully. The resource's URI is available from the response's Location header
204 No Content	An update to an existing resource has been applied successfully

Status code	Usage
400 Bad Request	The request was malformed. The response body will include an error providing further information
422 Unprocessable Entity	The request was well-formed but was unable to be followed due to semantic errors.
404 Not Found	The requested resource did not exist

Hypermedia



RESTful Notes uses hypermedia and resources include links to other resources in their responses. Responses are in [Hypertext Application Language \(HAL\)](#) format. Links can be found beneath the `_links` key. Users of the API should not create URIs themselves, instead they should use the above-described links to navigate from resource to resource.

Resources

Index



The index provides the entry point into the service.

Accessing the index

A **GET** request is used to access the index

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 33

0.0.1-SNAPSHOT - 2015-12-20 23:14
```

Payment



The payment resource provides the entry point to do a payment and get a payment.

Accessing the payment resource

version 1 (v1)

There is no documentation for this version

version 2 (v2)

There is no documentation for this version

version (v3)

How get a Payment info

Path Parameters

Table 1. `/api/v3/payments/{id}`

Parameter	Description
id	The Credit Card Transaction ID.

Request

```
GET /api/v3/payments/5677364f0364f4ccbfe5b0df HTTP/1.1
Content-Type: application/json
Accept-Encoding: gzip
Host: localhost
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 447

{
  "cardType" : "VISA",
  "cardNumber" : "4716651077977392",
  "expirationDate" : 1895969040000,
  "store" : {
    "name" : "Walmart"
  },
  "products" : [ {
    "name" : "Moto X 2015",
    "price" : 149.27
  }, {
    "name" : "Sandisk Cruzer 32GB Flash Drive",
    "price" : 9.99
  } ],
  "_links" : {
    "self" : {
      "href" : "http://localhost:8080/api/v3/payments/5677364f0364f4ccbfe5b0df"
    }
  },
  "id" : "5677364f0364f4ccbfe5b0df"
}
```

Response Fields

Path	Type	Description
id	String	The Credit Card Transaction ID.
cardType	String	Credit Card Type
cardNumber	String	Credit Card Number
expirationDate	Object	Credit Card Expiration Date
store	Array	Store
products	Array	Products Array
_links	Object	HATEOAS links

How send a Payment info to validate and confirm the payment transaction



When the transaction is committed the service return a transaction id

Request Fields

Path	Type	Description
id	String	The Credit Card Transaction ID.
cardType	String	Credit Card Type
cardNumber	String	Credit Card Number
expirationDate	Object	Credit Card Expiration Date
store	Array	Store
products	Array	Products Array

Request

```
POST /api/v3/payments HTTP/1.1
Content-Type: application/json
Accept-Encoding: gzip
Host: localhost
Content-Length: 304

{
  "cardType" : "VISA",
  "cardNumber" : "4716651077977392",
  "expirationDate" : 1895969040000,
  "store" : {
    "name" : "Walmart"
  },
  "products" : [ {
    "name" : "Moto X 2015",
    "price" : 149.27
  }, {
    "name" : "Sandisk Cruzer 32GB Flash Drive",
    "price" : 9.99
  } ],
  "id" : null
}
```

Response

HTTP/1.1 201 Created

Content-Type: application/json

Content-Length: 165

```
{
  "content" : "5677364f0364f4ccbf5b0e0",
  "_links" : {
    "self" : {
      "href" : "http://localhost:8080/api/v3/payments/5677364f0364f4ccbf5b0e0"
    }
  }
}
```