Shopizer - Shop

Application Metadata

Initial data required to run the store

<u>1) Store data</u>
curl -X GET "http://localhost:8080/api/v1/store/DEFAULT" -H "accept: application/json"

DEFAULT being store code defined in .env REACT_APP_MERCHANT

```
{
        "id": 1,
        "code": "DEFAULT",
        "name": "BAM Wood",
        "defaultLanguage": "en",
        "currency": "CAD",
        "inBusinessSince": "2011-09-04",
        "email": "info@test.com",
        "phone": "555-548-7005",
        "template": null,
        "useCache": true,
        "currencyFormatNational": true,
        "retailer": true,
        "dimension": "IN",
        "weight": "LB",
        "currentUserLanguage": null,
        "address": {
                "stateProvince": "QC",
```

```
                "country": "CA",

                "address": "1435 rue Tees",

                "postalCode": "H4R 1X4",

                "city": "St-Laurent",

                "active": true

        },

        "logo": {

                "name": "BAM_logo_Noir.jpg",

                "path":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/LOGO/BAM_logo_Noir.jp
g"

        },

        "parent": null,

        "supportedLanguages": [{

                        "id": 1,

                        "code": "en",

                        "new": false

                },

                {

                        "id": 2,

                        "code": "fr",

                        "new": false

                }

        ],

        "readableAudit": null

}
```

Site application meta data should be obtained from api

- Logo

==Logo.path==

- Supported languages (language dropdown)
==supportedLanguages==

- Contact (store informations)
- Application language

Application looks for `currentLanguageCode` in cookie. If no language exists in cookies then site language will be ==defaultLanguage.==

** obtained from storeAction.js

<u>2) Global configurations</u>

Request

curl -X GET "http://localhost:8080/api/v1/config?store=DEFAULT" -H "accept: application/json"
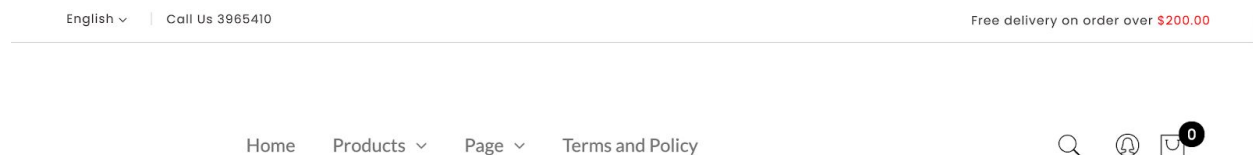
Response

```
{
        "facebook": "https://www.facebook.com/Shopizer/",
        "pinterest": "https://www.facebook.com/Shopizer/",
        "ga": "UA-4436714-9",
        "instagram": "https://www.facebook.com/Shopizer/",
        "allowOnlinePurchase": true,
        "displaySearchBox": true,
        "displayContactUs": true,
        "displayShipping": true,
        "displayCustomerSection": true,
        "displayAddToCartOnFeaturedItems": true,
        "displayCustomerAgreement": true,
        "displayPagesMenu": true
}
```

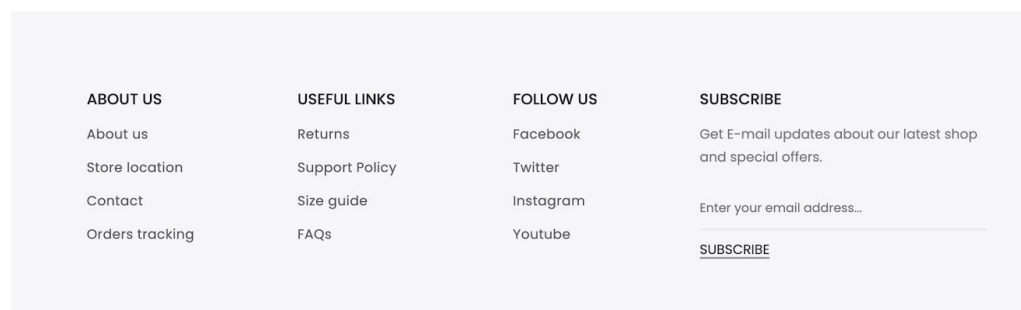| allowOnlinePurchase	Displays or not add to cart button on products
displaySearchBox	Display search box in header
displayContactUs	Display contact us page in menu and allow access
displayShipping	Display shipping quote in shopping cart and

	shipping quotes in checkout
displayCustomerSection	Display customer section
displayAddToCartOnFeaturedItems	Displays or not add to cart button on products
displayCustomerAgreement	Display customer agreement in checkout page

Global Layout

<u>Header</u>

English ∨ | Call Us 3965410   Free delivery on order over $200.00

Home   Products ∨   Page ∨   Terms and Policy   🔍   ⊙   🛒 0

Footer

ABOUT US	USEFUL LINKS	FOLLOW US	SUBSCRIBE
About us	Returns	Facebook	Get E-mail updates about our latest shop and special offers.
Store location	Support Policy	Twitter	
Contact	Size guide	Instagram	Enter your email address...
Orders tracking	FAQs	Youtube	SUBSCRIBE

Hide Follow us column. Other columns will be active even subscribe column on the right

- **Spinner on home page load and all page change**
  Category

Product details
Shopping cart
Checkout
Confirmation
Customer registration
Customer logon

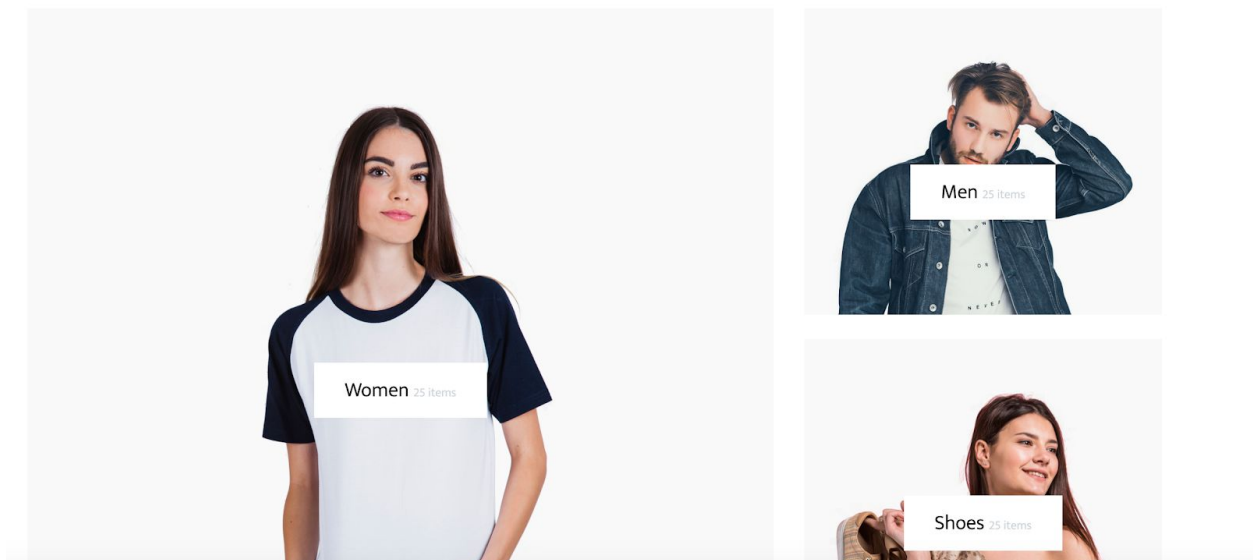https://www.davidhu.io/react-spinners/
Bounce spinner

- Translation files (have it working in english)

Translation files (OK)

- Featured category listing

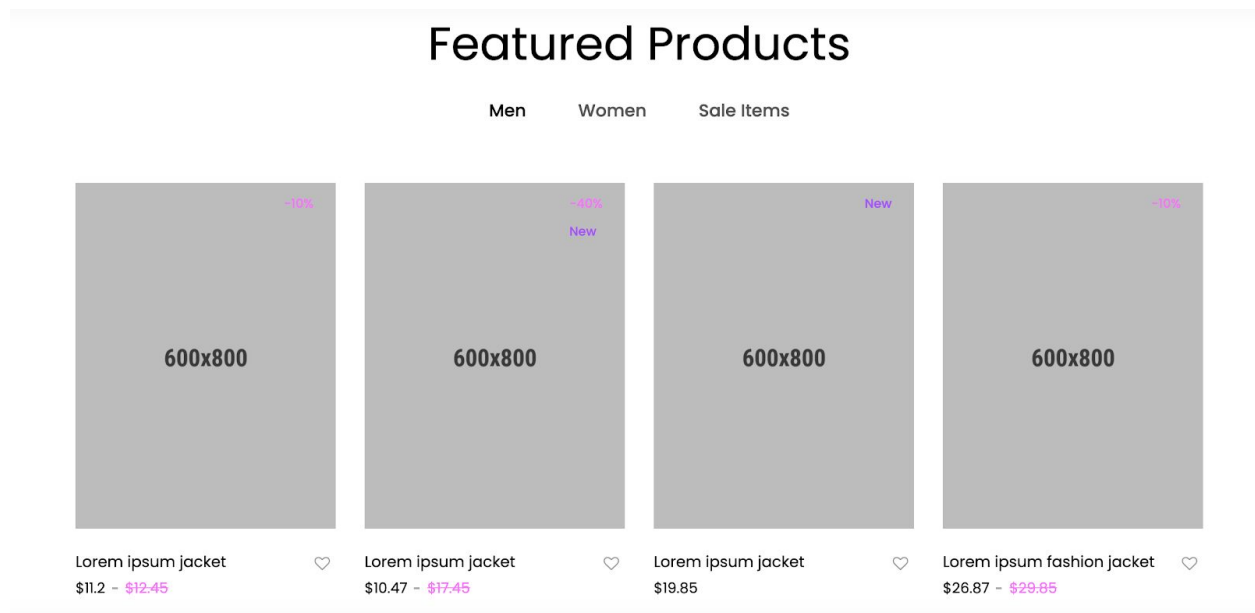Featured category of shopmax to be added to shop react

DISCOVER
THE COLLECTIONS

Featured items listing

Popular products

Hide filter by category for now
Hide favorite product (heart icon)

Featured Products

Men   Women   Sale Items

Lorem ipsum jacket
$11.2 - $12.45

Lorem ipsum jacket
$10.47 - $17.45

Lorem ipsum jacket
$19.85

Lorem ipsum fashion jacket
$26.87 - $29.85

Allow add to cart on items if

quantity > 0
available = true
visible = true
canBePurchased = true

```
curl -X GET --header 'Accept: application/json'
'http://localhost:8080/api/v1/products/group/FEATURED_ITEM'
```

```
{
            "totalCount": 2,
            "products": [{
                        "id": 1,
                        "price": 99.99,
                        "quantity": 1000,
                        "sku": "test",
                        …
                        "rating": 0,
```

```
"ratingCount": 0,

"sortOrder": 0,

"dateAvailable": "2018-08-26",

"refSku": "test",

"description": {

        "id": 751,

        "language": "en",

        "name": "Test products",
```

- **List of site category (category hierarchy in menu)**

List of category displayed in the menu

curl -X GET "http://localhost/api/v1/category?count=20&page=0" -H "accept: application/json"

Returns a hierarchy of category

```
{
  "totalPages": 1,
  "number": 5,
  "recordsTotal": 5,
  "recordsFiltered": 0,
  "categories": [
   {
     "id": 100,
     "code": "11751695",
     "sortOrder": 0,
     "visible": false,
     "featured": false,
     "lineage": "/100/",
     "depth": 0,
     "parent": null,
     "description": {
      "id": 5,
       "language": "en",
```

        "name": "Shoes",
        "description": "",
        "friendlyUrl": "shoes",
Page details are displayed using page friendlyUrl

http://localhost/category/shoes

Get api category data

TBD

List of content pages in the menu

Name is displayed in the menu
Slug is used as page url http://localhost:8080/shop/pages/frequently-asked-question.html

curl -X GET "http://localhost:8080/api/v1/content/pages" -H "accept: application/json"
```
[
        {
          "name": "Frequently asked question",
          "contentType": "PAGE",
          "path": "/files/DEFAULT/frequently-asked-question",
          "slug": "frequently-asked-question",
          "metaDetails": "",
          "title": null,
          "pageContent": "<p>\r\n\tHey this is content for Frequently asked question</p>\r\n",
          "language": null,
          "code": "faq",
          "id": 1,
          "displayedInMenu": false
        },
        {
          "name": "Terms and policy",
          "contentType": "PAGE",
          "path": "/files/DEFAULT/terms-and-policy",
          "slug": "terms-and-policy",
          "metaDetails": "",
          "title": null,
          "pageContent": "<p>\r\n\tContenu anglais</p>\r\n",
          "language": null,
          "code": "policy",
          "id": 50,
          "displayedInMenu": false
```

```
    }
  ]
```

Languages dropdown in header

http://localhost:8080/api/v1/store/DEFAULT

```
{
  "id": 1,
  "code": "DEFAULT",
  "name": "Fresh Organics",
  "defaultLanguage": "en",
  "currency": "USD",
  "inBusinessSince": "2012-02-15",
  "email": "carl@shopizer.com",
  "phone": "888-888-8888",
  "template": null,
  "useCache": false,
  "currencyFormatNational": true,
  "retailer": true,
  "dimension": "IN",
  "weight": "LB",
  "currentUserLanguage": null,
  "address": {
    "stateProvince": "QC",
    "country": "CA",
    "address": "350 Rue du Languedoc",
    "postalCode": "J4B 8J9",
    "city": "Boucherville",
    "active": true
  },
  "logo": null,
  "parent": null,
  "supportedLanguages": [
    {
      "id": 1,
      "code": "en",
      "new": false
    },
    {
      "id": 2,
      "code": "fr",
```

      "new": false
   }
  ],

Newsletter subscription

An api allows users to register to a public newsletter. This subscription is performed from the home page. When subscribing a new email, a spinner is displayed while the request is processed. Once the status 200 is back then a confirmation message is displayed in the notification section (lower left section) indicating that the user has registered his email.

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
"firstName":"Johny", \     "lastName":"Tester", \     "email":"johny.terter%40abc.com" \   }'
'http://localhost:8080/api/v1/newsletter?store=DEFAULT'
```

This reply will reply with a response code 200 (OK)

Product Summary available from product listing

Product summary is available from listing pages and displays details of a product on a popover screen without leaving a listing page. **Product api is the same as Product details page**.
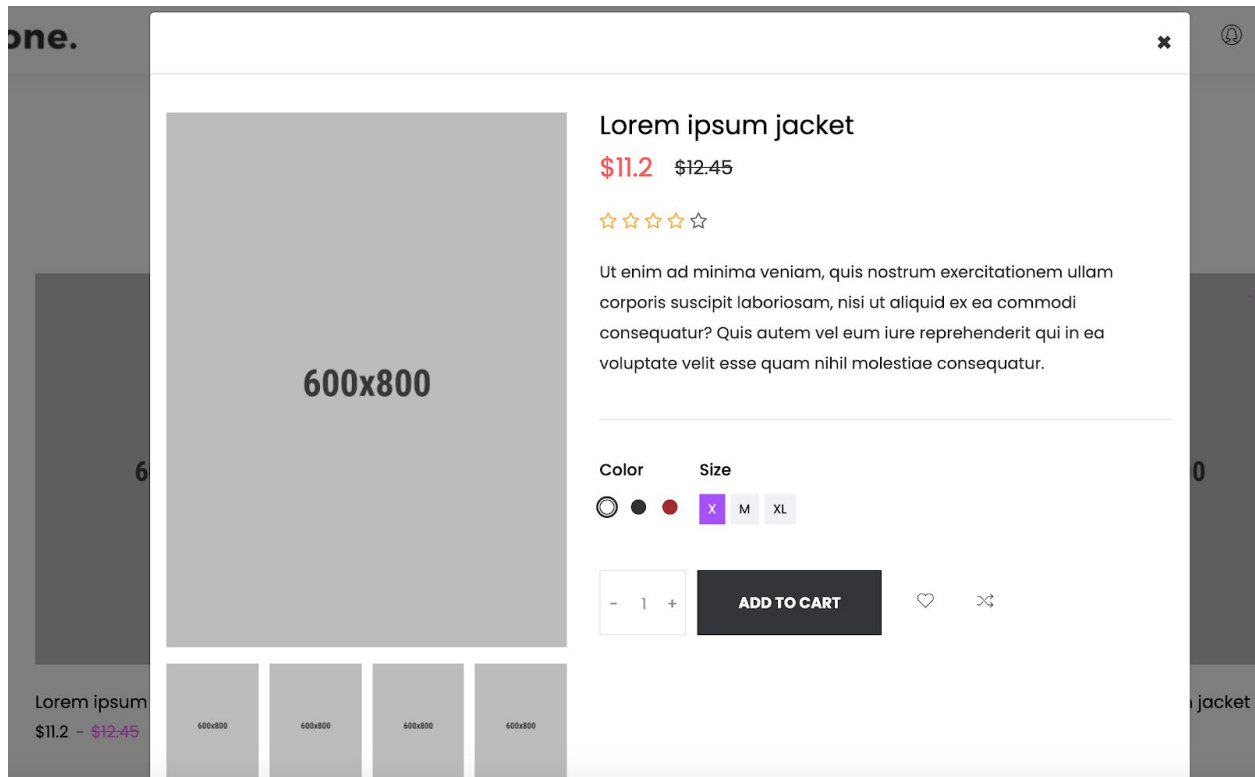
Components of a product summary page:
- Product title
- Product price including any possible discounted price
- Product description
- Product options
- Product images
- Select quantity and add to cart button

Product details

Request

curl -X GET --header 'Accept: application/json' 'http://ec2-35-183-25-66.ca-central-1.compute.amazonaws.com:8080/api/v1/products/1?lang=< LANGUAGE CODE (en|fr...'

Response

```
{
 "id": 1,
  "price": 49,
```

```
  "quantity": 998,
  "sku": "S1X10C1",
  "productShipeable": true,
  "preOrder": false,
  "productVirtual": false,
  "quantityOrderMaximum": 1,
  "quantityOrderMinimum": 1,
  "productIsFree": false,
  "available": true,
  "visible": true,
  "productSpecifications": {
    "height": 1.5,
    "weight": 8,
    "length": 36,
    "width": 10,
    "model": null,
    "manufacturer": null,
    "dimensionUnitOfMeasure": null,
    "weightUnitOfMeasure": null
  },
  "rating": 0,
  "ratingCount": 0,
  "sortOrder": 0,
  "dateAvailable": "2019-09-15",
  "refSku": "634324915858",
  "condition": null,
  "creationDate": "2019-09-15",
  "rentalDuration": 0,
  "rentalPeriod": 0,
  "rentalStatus": null,
  "description": {
    "id": 901,
    "language": "en",
    "name": "Rustic Shelf 10\"x36\"x1.5\"",
    "description": "<p>\r\n\tSolid Rustic Pine Wood Shelf, sanded finished with Antique Danish Oil. 10&quot;x36&quot;x1.5&quot;.<br />\r\n\tAvailable in Brown, Dark Grey or Light Grey.</p>\r\n",
    "friendlyUrl": "rustic-shelf-10x36x15",
    "keyWords": "",
    "highlights": "",
    "metaDescription": "Solid Rustic Pine Wood Shelf sanded",
    "title": "Solid Rustic Pine Wood Shelf"
  },
  "productPrice": {
    "id": 1,
    "originalPrice": "$49.00",
    "finalPrice": "$49.00",
    "discounted": false,
    "description": {
      "id": 851,
      "language": "en",
      "name": null,
```

```json
      "description": null,
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": null,
      "metaDescription": null,
      "title": null,
      "priceAppender": null
    }
  },
  "finalPrice": "$49.00",
  "originalPrice": "$49.00",
  "discounted": false,
  "image": {
    "id": 636,
    "imageName": "S1X10C1.jpg",
    "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1.jpg",
    "externalUrl": null,
    "videoUrl": null,
    "imageType": 0,
    "defaultImage": true
  },
  "images": [
    {
      "id": 636,
      "imageName": "S1X10C1.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": true
    },
    {
      "id": 1362,
      "imageName": "S1X10C1_1.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1_1.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": false
    },
    {
      "id": 1363,
      "imageName": "S1X10C1_2.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1_2.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
```

```json
      "defaultImage": false
    },
    {
      "id": 1364,
      "imageName": "S1X10C1_3.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1_3.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": false
    }
  ],
  "manufacturer": {
    "id": 2,
    "code": "bamwood",
    "order": 0,
    "description": {
      "id": 0,
      "language": null,
      "name": "BAM Wood",
      "description": null,
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": null,
      "metaDescription": null,
      "title": null
    }
  },
  "attributes": null,
  "options": [
    {
      "id": 2,
      "code": "finish",
      "type": "radio",
      "readOnly": false,
      "name": "Finish",
      "lang": "en",
      "optionValues": [
        {
          "id": 3,
          "code": "brown",
          "defaultValue": true,
          "sortOrder": 0,
          "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/CI.jpg",
          "order": 0,
          "price": null,
          "description": {
            "id": 0,
            "language": "en",
            "name": "Brown",
```

14

```
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    {
      "id": 1,
      "code": "darkgrey",
      "defaultValue": false,
      "sortOrder": 1,
      "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/C2.jpg",
      "order": 0,
      "price": null,
      "description": {
        "id": 0,
        "language": "en",
        "name": "Dark Grey",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    {
      "id": 2,
      "code": "lightgrey",
      "defaultValue": false,
      "sortOrder": 2,
      "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/C3.jpg",
      "order": 0,
      "price": null,
      "description": {
        "id": 0,
        "language": "en",
        "name": "Light Grey",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    }
  ]
},
{
```

```
  "id": 100,
  "code": "varnish",
  "type": "radio",
  "readOnly": false,
  "name": "Varnish",
  "lang": "en",
  "optionValues": [
    {
      "id": 100,
      "code": "varnish",
      "defaultValue": false,
      "sortOrder": 0,
      "image": null,
      "order": 0,
      "price": "$21.00",
      "description": {
        "id": 0,
        "language": "en",
        "name": "Varnish",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    {
      "id": 101,
      "code": "novarnish",
      "defaultValue": false,
      "sortOrder": 0,
      "image": null,
      "order": 0,
      "price": null,
      "description": {
        "id": 0,
        "language": "en",
        "name": "No Varnish",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    }
  ]
}
],
"categories": [
```

```json
    {
      "id": 7,
      "code": "Shelves",
      "sortOrder": 5,
      "visible": true,
      "featured": false,
      "lineage": "/7/",
      "depth": 0,
      "parent": null,
      "description": {
        "id": 7,
        "language": null,
        "name": "Shelves",
        "description": "",
        "friendlyUrl": "shelves",
        "keyWords": "",
        "highlights": "",
        "metaDescription": "",
        "title": "BAM Wood - Shelves"
      },
      "productCount": 0,
      "store": null,
      "children": []
    }
  ],
  "type": {
    "id": 1,
    "code": "GENERAL",
    "name": "GENERAL",
    "allowAddToCart": true
  },
  "canBePurchased": true,
  "owner": null
}
```

Important product attributes

Component	Response field	Rules
Display product	"available": true, "visible": true,	Before displaying a product the system must validate both fields with values: available:true visible:true When rules are not met, the system must display a

		product not found page.
Product title	title	Displayed in browser title (only for full product details)
Product price including any possible discounted price	"originalPrice": "$49.00", "finalPrice": "$49.00", "discounted": false,	If discounted = false then the finalPrice is displayed If discounted = true then the ~~orinalPrice~~ is displayed beside finalPrice Like this ~~$69.99~~ $59.99
Product name	"name": "Rustic Shelf 10\"x36\"x1.5\"",	
Product description	"description": " \r\n\tSolid Rustic Pine Wood Shelf, sanded finished with Antique Danish Oil. 10"x36"x1.5". \r\n\tAvailable in Brown, Dark Grey or Light Grey. \r\n",	

Product options	"options": [
	  {
	   "id": 2,
	   "code": "finish",
	   "type": "radio",
	   "readOnly": false,
	   "name": "Finish",
	   "optionValues": [
	    {
	     "id": 3,
	     "code": "brown",
	     "defaultValue": true,
	     "sortOrder": 0,
	     "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/CI.jpg",
	     "order": 0,
	     "price": null,
	     "description": {
	      "name": "Brown",
	     }
	    },
	    {
		The following example will display something like this
		
		This product has 2 options. First option is named:
		
		Finish and has 3 possible values; defaulValue browd, darkgrey and lightgrey. Presentation of those values use radio button components.

```
        "id": 1,
        "code": "darkgrey",
        "defaultValue": false,
        "sortOrder": 1,
        "image":
"https://s3.ca-central-1.amazonaw
s.com/shopizer-carl/files/DEFAUL
T/PROPERTY/C2.jpg",
        "name": "Dark Grey",
      }
    },
    {
      "id": 2,
      "code": "lightgrey",
      "defaultValue": false,
      "sortOrder": 2,
      "image":
"https://s3.ca-central-1.amazonaw
s.com/shopizer-carl/files/DEFAUL
T/PROPERTY/C3.jpg",
      "order": 0,
      "price": null,
      "description": {
        "id": 0,
        "language": "en",
        "name": "Light Grey",
      }
    }
    ]
  },
  {
    "id": 100,
    "code": "varnish",
    "type": "radio",
    "readOnly": false,
    "name": "Varnish",
    "lang": "en",
    "optionValues": [
      {
        "id": 100,
        "code": "varnish",
        "defaultValue": false,
        "sortOrder": 0,
        "image": null,
        "order": 0,
        "price": "$21.00",
        "description": {
          "id": 0,
          "language": "en",
          "name": "Varnish",
```

Finish

○ Brown

○ Dark Grey

○ Light Grey

Varnish

○ Varnish ($21.00)
○ No Varnish

Second option is named:

Varnish and has 3 possible values; defaulValue no varnish and another option with varnish at additional cost of $21

When clicking on an option price, product price has to adjust. See option selection price API.

	"description": null,
	"friendlyUrl": null,
	"keyWords": null,
	"highlights": null,
	"metaDescription": null,
	"title": null
	}
	},
	{
	"id": 101,
	"code": "novarnish",
	"defaultValue": false,
	"sortOrder": 0,
	"image": null,
	"order": 0,
	"price": null,
	"description": {
	"id": 0,
	"language": "en",
	"name": "No Varnish",
	"description": null,
	"friendlyUrl": null,
	"keyWords": null,
	"highlights": null,
	"metaDescription": null,
	"title": null
	}
	}
	]
	}
	],	

Product images	Image default image Images images sub section	
Select quantity and add to cart button	"allowAddToCart": true "quantityOrderMaximum": 1, "quantityOrderMinimum": 1,	allowAddToCart must be true in order to display Add to cart button quantityOrderMinimum and quantityOrderMaximum allows to specify maximum cart quantity selectionable

Product options display api

A product option can support one to multiple options to be configured for the product. Product api returns all possible options that have to be shown to a use ordered, defaulted and group by attributes.

Product options can be displayed vertically or horizontally based on the selected theme.

$49.00

Finish
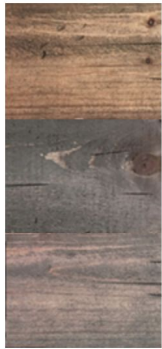
○ Brown

○ Dark Grey

○ Light Grey

Varnish
○ Varnish ($21.00)
○ No Varnish

Above example is displayed from product details response options

```
"options": [
  {
    "id": 2,
    "code": "finish",
    "type": "radio",
    "readOnly": false,
    "name": "Finish",
    "optionValues": [
      {
        "id": 3,
        "code": "brown",
        "defaultValue": true,
        "sortOrder": 0,
        "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/CI.jpg",
        "order": 0,
        "price": null,
        "description": {
          "name": "Brown",
        }
      },
```

Options are interpreted as the following:

A product with ID 1 has possible options:

An option with name `Finish` with display type `radio` has possible choices including color `Brown` which is `default` Finish selected …

Options can have the following types

radio	Mutual exclusives	Supports option image
checkbox	Inclusives	Supports option image
dropdown	Mutual exclusives	No option image

In the example above a product has 2 options (With a varnish or or without varnish). The selection of the appropriate attribute will drive the price of the product to be displayed,

A user selects an attribute, the system will immediately calculate the price from a service exposed.

Price calculation on option selection

** Everytime a user clicks on an option it triggers product price re calculation

Example of product 1 with varnish 335 selected (an option priced at an additional $20).

Request

curl -X POST "http://localhost:8080/api/v1/product/1/price" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"options\": [{ \"id\": 355 }]}"

Response

```
{
      "id": 0,
      "originalPrice": "$70.00",
      "finalPrice": "$70.00",
      "discounted": false,
```

```
        "description": null
}
```

When adding a product with a selected option, adding to cart will require the option selected ** See shopping cart section **.

Shopping cart and Mini shopping cart

Adding products to cart is allowed from any product displayed with a shopping cart icon.
An item can be added to a shopping cart when an item has following property

quantity > 0
available = true
visible = true
canBePurchased = true

Mini shopping cart should allow the following:

Display mini cart quantity (get cart informations)

- Mini cart quantity should be synchronized with api

Cart ui check if a cart id is in a cookie. And use id in cookie. When adding an item to the cart, the shopping cart id is saved in a cookie. The shopping cart id from the cookie is used to retrieve cart details

** When a user logs in, customer details may contain an existing cart ID. When a new loggin happens, the customer cart ID replaces the anonymous user cart ID in the cookie.

Querying a shopping cart (get shopping cart api)
A cart ID is required in order to query this object, meaning that a cart ID cookie must exist. If it does not exist then a shopping cart is considered empt.

Cart is the name of the cookie

Request

curl -X GET "http://localhost:8080/api/v1/cart/cc98863922954ae286d6d12c4c1f4d4d" -H "accept: application/json"

Response

Contains cart total, subtotal, quantity of products and product name, attributes and product image.

** A product can contain selected options which should be displayed in mini cart

```
{
 "id": 2,
 "language": null,
 "code": "cc98863922954ae286d6d12c4c1f4d4d",
 "subtotal": 49.99,
 "displaySubTotal": "US$49.99",
 "total": 49.99,
 "displayTotal": "US$49.99",
 "quantity": 1,
 "products": [
         {
         "id": 1,
         "price": 49.99,
         "quantity": 1,
         "sku": "test",
         "productShipeable": false,
         "preOrder": false,
         "productVirtual": false,
         "quantityOrderMaximum": 0,
         "quantityOrderMinimum": 0,
         "productIsFree": false,
         "available": true,
         "visible": true,
         "productLength": 21,
         "productWidth": 30,
         "productHeight": 39,
         "productWeight": 10,
         "rating": 0,
         "ratingCount": 0,
         "sortOrder": 0,
         "dateAvailable": "2018-08-27",
         "refSku": "test",
         "condition": null,
         "rentalDuration": 0,
         "rentalPeriod": 0,
         "rentalStatus": null,
         "description": {
         "id": 751,
         "language": "en",
         "name": "Test product",
```

```
"description": "<p>\r\n\tTest produt description with <strong>html formatting </strong></p>\r\n",
"friendlyUrl": "test-product",
"keyWords": null,
"highlights": "",
"metaDescription": "",
"title": "Store | Test product"
},
"finalPrice": "US$49.99",
"originalPrice": "US$49.99",
"discounted": false,
"image": {
"id": 2,
"imageName": "IMG_9386_200x152.jpg",
```

Add to cart

Items can be added to a shopping cart. A shopping cart may already exist by the presence of a shopping cart cookie.

Adding to a new cart (no cart ID in cookie)

Request

Requires a product id and a quantity

curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{"product":1,"quantity":1}' 'http://localhost:8080/api/v1/cart'

Response

Returns shopping cart code to be added to the cart cookie

```
{
  "id": 1850,
  "language": null,
  "code": "e030e5ba2a07463a857b7538d9699c10",
  "subtotal": 49,
  "displaySubTotal": "$49.00",
  "total": 49,
  "displayTotal": "$49.00",
  "quantity": 1,
  "order": null,
  "products": [
```

```
   {
     "id": 1,
     "price": 49,
     "quantity": 1,
```

This method returns cart content with it's new cart ID that can be used on subsequent cart actions

Add an item to an existing shopping cart api

curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{"product":2,"quantity":1}' 'http://localhost:8080/api/v1/cart/ cc98863922954ae286d6d12c4c1f4d4d'

** In both cases save shopping cart code in a persistent cookie called Cart

Add an item to cart with product properties

Request

curl -X POST "http://localhost:8080/api/v1/cart" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"attributes\": [{ \"id\": 354 }], \"product\": 1, \"quantity\": 1}"

Response

```
{
  "id": 1950,
  "language": null,
  "code": "b3218ec858544c83bc2ba62daa9da513",
  "subtotal": 70,
  "displaySubTotal": "$70.00",
  "total": 70,
  "displayTotal": "$70.00",
  "quantity": 1,
  "order": null,
  "products": [
   {
     "id": 1,
     "price": 70,
     "quantity": 1,
     "sku": "S1X10C1",
     "productShipeable": true,
     "preOrder": false,
     "productVirtual": false,
     "quantityOrderMaximum": 1,
```

```
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": true,
    "visible": true,
    "productSpecifications": {
     "height": 1.5,
     "weight": 8,
     "length": 36,
     "width": 10,
     "model": null,
     "manufacturer": null,
     "dimensionUnitOfMeasure": null,
     "weightUnitOfMeasure": null
    },
    "rating": 0,
    "ratingCount": 0,
    "sortOrder": 0,
    "dateAvailable": "2019-09-15",
    "refSku": "634324915858",
    "condition": null,
    "creationDate": "2019-09-15",
    "rentalDuration": 0,
    "rentalPeriod": 0,
    "rentalStatus": null,
    "description": {
     "id": 901,
     "language": "en",
     "name": "Rustic Shelf 10\"x36\"x1.5\"",
     "description": "<p>\r\n\tSolid Rustic Pine Wood Shelf, sanded finished with Antique Danish Oil. 10&quot;x36&quot;x1.5&quot;.<br />\r\n\tAvailable in Brown, Dark Grey or Light Grey.</p>\r\n",
     "friendlyUrl": "rustic-shelf-10x36x15",
     "keyWords": "",
     "highlights": "",
     "metaDescription": "Solid Rustic Pine Wood Shelf sanded",
     "title": "Solid Rustic Pine Wood Shelf"
    },
    "productPrice": {
     "id": 1,
     "originalPrice": "$49.00",
     "finalPrice": "$49.00",
     "discounted": false,
     "description": {
      "id": 851,
      "language": "en",
      "name": null,
      "description": null,
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": null,
      "metaDescription": null,
      "title": null,
```

27

```json
      "priceAppender": null
    }
  },
  "finalPrice": "$70.00",
  "originalPrice": "$49.00",
  "discounted": false,
  "image": {
    "id": 636,
    "imageName": "S1X10C1.jpg",
    "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1.jpg",
    "externalUrl": null,
    "videoUrl": null,
    "imageType": 0,
    "defaultImage": true
  },
  "images": [
    {
      "id": 636,
      "imageName": "S1X10C1.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": true
    },
    {
      "id": 1362,
      "imageName": "S1X10C1_1.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1_1.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": false
    },
    {
      "id": 1363,
      "imageName": "S1X10C1_2.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1_2.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": false
    },
    {
      "id": 1364,
      "imageName": "S1X10C1_3.jpg",
```

```
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-carl/products/DEFAULT/S1X10C1/SMALL/S1X10C1_3.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": false
    }
  ],
  "manufacturer": {
    "id": 2,
    "code": "bamwood",
    "order": 0,
    "description": {
      "id": 0,
      "language": null,
      "name": "BAM Wood",
      "description": null,
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": null,
      "metaDescription": null,
      "title": null
    }
  },
  "attributes": null,
  "options": [
    {
      "id": 2,
      "code": "finish",
      "type": "radio",
      "readOnly": false,
      "name": "Finish",
      "lang": "en",
      "optionValues": [
        {
          "id": 1,
          "code": "brown",
          "defaultValue": true,
          "sortOrder": 0,
          "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/CI.jpg",
          "order": 0,
          "price": null,
          "description": {
            "id": 0,
            "language": "en",
            "name": "Brown",
            "description": null,
            "friendlyUrl": null,
            "keyWords": null,
            "highlights": null,
            "metaDescription": null,
```

```json
        "title": null
      }
    },
    {
      "id": 2,
      "code": "darkgrey",
      "defaultValue": false,
      "sortOrder": 1,
      "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/C2.jpg",
      "order": 0,
      "price": null,
      "description": {
        "id": 0,
        "language": "en",
        "name": "Dark Grey",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    {
      "id": 3,
      "code": "lightgrey",
      "defaultValue": false,
      "sortOrder": 2,
      "image": "https://s3.ca-central-1.amazonaws.com/shopizer-carl/files/DEFAULT/PROPERTY/C3.jpg",
      "order": 0,
      "price": null,
      "description": {
        "id": 0,
        "language": "en",
        "name": "Light Grey",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    }
  ]
},
{
  "id": 100,
  "code": "varnish",
  "type": "radio",
  "readOnly": false,
  "name": "Varnish",
```

```json
      "lang": "en",
      "optionValues": [
        {
          "id": 354,
          "code": "varnish",
          "defaultValue": false,
          "sortOrder": 0,
          "image": null,
          "order": 0,
          "price": "$21.00",
          "description": {
            "id": 0,
            "language": "en",
            "name": "Varnish",
            "description": null,
            "friendlyUrl": null,
            "keyWords": null,
            "highlights": null,
            "metaDescription": null,
            "title": null
          }
        },
        {
          "id": 355,
          "code": "novarnish",
          "defaultValue": false,
          "sortOrder": 0,
          "image": null,
          "order": 0,
          "price": null,
          "description": {
            "id": 0,
            "language": "en",
            "name": "No Varnish",
            "description": null,
            "friendlyUrl": null,
            "keyWords": null,
            "highlights": null,
            "metaDescription": null,
            "title": null
          }
        }
      ]
    }
  ],
  "categories": [
    {
...
    }
  ],
  "type": {
```

```
    "id": 1,
    "code": "GENERAL",
    "name": "GENERAL",
    "allowAddToCart": false
  },
  "canBePurchased": true,
  "owner": null,
  "subTotal": 70,
  "displaySubTotal": "$70.00",
  "cartItemattributes": [
    {
      "id": 900,
      "language": null,
      "option": {
        "id": 100,
        "code": "varnish",
        "type": null,
        "readOnly": false,
        "name": "Varnish",
        "lang": null,
        "optionValues": []
      },
      "optionValue": {
        "id": 100,
        "code": "varnish",
        "defaultValue": false,
        "sortOrder": 0,
        "image": null,
        "price": null,
        "name": "Varnish"
      }
    }
  ]
}
],
"totals": [
  {
    "id": 0,
    "title": null,
    "text": null,
    "code": "order.total.subtotal",
    "order": 0,
    "module": null,
    "value": 70,
    "total": null,
    "discounted": false
  },
  {
    "id": 0,
    "title": null,
    "text": null,
```

```
    "code": "order.total.total",
    "order": 0,
    "module": null,
    "value": 70,
    "total": null,
    "discounted": false
  }
],
  "customer": null
}
```

Display items in mini shopping cart

Items in the minicart are displayed when clicking on mini shopping cart icon

Remove an item from shopping cart

curl -X DELETE
"http://localhost:8080/api/v1/cart/e030e5ba2a07463a857b7538d9699c10/product/1?body=true"
-H "accept: application/json"

It will return the state of the shopping cart with remaining items or with an empty body if the shopping cart is empty.

** If the shopping cart is empty, remove cart cookie

Product listing - category details

When selecting a category from the menu you can obtain details of the category and products attached under this category.

** Although a category details is displayed using friendlyUrl, backend api requires the category id for getting category information.

Category details api

curl -X GET "http://localhost:8080/api/v1/category/53?store=DEFAULT&lang=en" -H "accept: application/json"

Response

```
{
        "id": 53,
        "code": "decorations",
        "sortOrder": 50,
        "visible": true,
        "featured": false,
        "lineage": "/53/",
        "depth": 0,
        "parent": null,
        "description": {
                "id": 753,
                "language": "en",
                "name": "Decorations",
                "description": "\r\n\tIndoor and outdoor decorations\r\n",
                "friendlyUrl": "decorations",
                "keyWords": "",
                "highlights": "",
                "metaDescription": "",
                "title": "Importa - Décorations"
        },
        "productCount": 0,
        "store": "DEFAULT",
        "children": []
}
```

A category not visible will display a category not found - 404 page.
Category name is used in page display
Category description is used in page display
Category title is used in browser title page
Category metaDescription is used in browser description field
productCount is a deprecated field and should not be used to display number of products
Category listing api

A list of products should be attached to a category listing. It is possible that no products are attached. In that case the array of products will be empty.
Product listing must be pageable and product listing contains a predefined number of products to be displayed per page.

Pages index start at 0 (0 being first page)
Product count per page has a default value on the server side at 10

Here is an example of pagination &count=15&lang=en&page=2

This means that third page is clicked and expects 15 products to be received from api

Product listing api

```
curl -X GET
"http://localhost:8080/api/v1/products?category=53&store=DEFAULT&count=10&lang=en&page
=0" -H "accept: application/json"
```

```
{
 "totalPages": 2,
 "number": 27,
 "recordsTotal": 27,
 "recordsFiltered": 0,
 "products": [
  {
   "id": 50,
   "price": 129.99,
   "quantity": 494,
   "sku": "SKU111",
   "productShipeable": true,
   "preOrder": false,
   "productVirtual": false,
   "quantityOrderMaximum": 1,
   "quantityOrderMinimum": 1,
   "productIsFree": false,
   "available": true,
   "visible": true,
   "productSpecifications": {
    "height": 16,
    "weight": 18,
    "length": 12,
    "width": 12,
    "model": null,
    "manufacturer": null,
    "dimensionUnitOfMeasure": null,
    "weightUnitOfMeasure": null
   },
   "rating": 0,
   "ratingCount": 0,
   "sortOrder": 0,
   "dateAvailable": "2019-06-04",
   "refSku": null,
   "condition": null,
   "creationDate": "2019-06-06",
   "rentalDuration": 0,
   "rentalPeriod": 0,
   "rentalStatus": null,
   "description": {
    "id": 1050,
```

```
      "language": "en",
      "name": "Compact night table",
      "description": "<p>\n\tCompact night table, importation from Indonesia deck 45 46</p>\n",
      "friendlyUrl": "compact-night-table",
      "keyWords": "",
      "highlights": "",
      "metaDescription": "",
      "title": "Wood Treasures - Night table"
    },
    "productPrice": {
      "id": 50,
      "originalPrice": "US$129.99",
      "finalPrice": "US$129.99",
      "discounted": true,
      "description": {
        "id": 1000,
        "language": "en",
        "name": null,
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null,
        "priceAppender": null
      }
    },
    "finalPrice": "US$129.99",
    "originalPrice": "US$129.99",
    "discounted": true,
    "image": {
      "id": 50,
      "imageName": "night-table.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/SKU111/SMALL/night-table.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": true
    },
    "images": [
      {
        "id": 50,
        "imageName": "night-table.jpg",
        "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/SKU111/SMALL/night-table.jpg",
        "externalUrl": null,
        "videoUrl": null,
        "imageType": 0,
        "defaultImage": true
      }
```

```json
    ],
    "manufacturer": {
      "id": 1,
      "code": "DEFAULT",
      "order": 0,
      "description": {
        "id": 0,
        "language": null,
        "name": "DEFAULT",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    "attributes": null,
    "options": null,
    "categories": [
      {
        "id": 100,
        "code": "vintagegigbag",
        "sortOrder": 0,
        "visible": true,
        "featured": false,
        "lineage": "/50/100/",
        "depth": 1,
        "parent": null,
        "description": {
          "id": 100,
          "language": null,
          "name": "Handbags Test1",
          "description": "",
          "friendlyUrl": "handbags",
          "keyWords": "",
          "highlights": null,
          "metaDescription": null,
          "title": "Vintage handbags"
        },
        "productCount": 0,
        "store": null,
        "children": []
      }
    ],
    "type": {
      "id": 1,
      "code": "GENERAL",
      "name": "GENERAL",
      "allowAddToCart": false
    },
```

```json
    "canBePurchased": true,
    "owner": null
  },
  {
    "id": 1100,
    "price": 25.99,
    "quantity": 55,
    "sku": "REF321",
    "productShipeable": false,
    "preOrder": false,
    "productVirtual": false,
    "quantityOrderMaximum": 1,
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": true,
    "visible": true,
    "productSpecifications": {
      "height": null,
      "weight": null,
      "length": null,
      "width": null,
      "model": null,
      "manufacturer": null,
      "dimensionUnitOfMeasure": null,
      "weightUnitOfMeasure": null
    },
    "rating": 4.5,
    "ratingCount": 7,
    "sortOrder": 0,
    "dateAvailable": "2019-12-07",
    "refSku": null,
    "condition": null,
    "creationDate": "2019-12-07",
    "rentalDuration": 0,
    "rentalPeriod": 0,
    "rentalStatus": null,
    "description": {
      "id": 7100,
      "language": "en",
      "name": "A test product",
      "description": "This is the description for test product item",
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": "Short description",
      "metaDescription": null,
      "title": "A test product"
    },
    "productPrice": {
      "id": 1300,
      "originalPrice": "US$25.99",
      "finalPrice": "US$25.99",
```

```json
      "discounted": false,
      "description": {
        "id": 7050,
        "language": "en",
        "name": null,
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null,
        "priceAppender": null
      }
    },
    "finalPrice": "US$25.99",
    "originalPrice": "US$25.99",
    "discounted": false,
    "image": null,
    "images": null,
    "manufacturer": null,
    "attributes": null,
    "options": null,
    "categories": null,
    "type": {
      "id": 1,
      "code": "GENERAL",
      "name": "GENERAL",
      "allowAddToCart": false
    },
    "canBePurchased": true,
    "owner": null
  },
  {
    "id": 902,
    "price": 0,
    "quantity": 0,
    "sku": "image123",
    "productShipeable": false,
    "preOrder": false,
    "productVirtual": false,
    "quantityOrderMaximum": 1,
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": false,
    "visible": true,
    "productSpecifications": {
      "height": 0,
      "weight": 0,
      "length": 0,
      "width": 0,
      "model": null,
```

```json
    "manufacturer": null,
    "dimensionUnitOfMeasure": null,
    "weightUnitOfMeasure": null
},
"rating": 0,
"ratingCount": 0,
"sortOrder": 0,
"dateAvailable": "2019-11-01",
"refSku": null,
"condition": null,
"creationDate": "2019-11-01",
"rentalDuration": 0,
"rentalPeriod": 0,
"rentalStatus": null,
"description": {
  "id": 5455,
  "language": "en",
  "name": "image123",
  "description": "images",
  "friendlyUrl": "image123",
  "keyWords": "",
  "highlights": "",
  "metaDescription": "",
  "title": "image123"
},
"productPrice": {
  "id": 1102,
  "originalPrice": "US$0.00",
  "finalPrice": "US$0.00",
  "discounted": false,
  "description": {
    "id": 5404,
    "language": "en",
    "name": null,
    "description": null,
    "friendlyUrl": null,
    "keyWords": null,
    "highlights": null,
    "metaDescription": null,
    "title": null,
    "priceAppender": null
  }
},
"finalPrice": "US$0.00",
"originalPrice": "US$0.00",
"discounted": false,
"image": {
  "id": 557,
  "imageName": "resize.jpg",
  "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/image123/SMALL/resize.jpg",
```

```json
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": true
    },
    "images": [
      {
        "id": 554,
        "imageName": "4548 0.jpg",
        "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/image123/SMALL/4548 0.jpg",
        "externalUrl": null,
        "videoUrl": null,
        "imageType": 0,
        "defaultImage": true
      },
      {
        "id": 555,
        "imageName": "45119522_fon01a.jpeg",
        "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/image123/SMALL/45119522_fo
n01a.jpeg",
        "externalUrl": null,
        "videoUrl": null,
        "imageType": 0,
        "defaultImage": true
      },
      {
        "id": 556,
        "imageName": "1366010646_948959096.jpg",
        "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/image123/SMALL/1366010646_
948959096.jpg",
        "externalUrl": null,
        "videoUrl": null,
        "imageType": 0,
        "defaultImage": true
      },
      {
        "id": 557,
        "imageName": "resize.jpg",
        "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/image123/SMALL/resize.jpg",
        "externalUrl": null,
        "videoUrl": null,
        "imageType": 0,
        "defaultImage": true
      }
    ],
    "manufacturer": {
      "id": 1,
```

```json
    "code": "DEFAULT",
    "order": 0,
    "description": {
     "id": 0,
     "language": null,
     "name": "DEFAULT",
     "description": null,
     "friendlyUrl": null,
     "keyWords": null,
     "highlights": null,
     "metaDescription": null,
     "title": null
    }
   },
   "attributes": null,
   "options": [
    {
     "id": 2,
     "code": "SIZE",
     "type": "select",
     "readOnly": false,
     "name": "Size",
     "lang": "en",
     "optionValues": [
      {
       "id": 5,
       "code": "SMALL",
       "defaultValue": false,
       "sortOrder": 0,
       "image": null,
       "order": 0,
       "price": "US$10.00",
       "description": {
        "id": 0,
        "language": "en",
        "name": "Small",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
       }
      }
     ]
    }
   ],
   "categories": null,
   "type": null,
   "canBePurchased": false,
   "owner": null
```

```
    },
    {
      "id": 903,
      "price": 0,
      "quantity": 0,
      "sku": "images345",
      "productShipeable": false,
      "preOrder": false,
      "productVirtual": false,
      "quantityOrderMaximum": 1,
      "quantityOrderMinimum": 1,
      "productIsFree": false,
      "available": false,
      "visible": true,
      "productSpecifications": {
        "height": 0,
        "weight": 0,
        "length": 0,
        "width": 0,
        "model": null,
        "manufacturer": null,
        "dimensionUnitOfMeasure": null,
        "weightUnitOfMeasure": null
      },
      "rating": 0,
      "ratingCount": 0,
      "sortOrder": 0,
      "dateAvailable": "2019-11-01",
      "refSku": null,
      "condition": null,
      "creationDate": "2019-11-01",
      "rentalDuration": 0,
      "rentalPeriod": 0,
      "rentalStatus": null,
      "description": {
        "id": 5457,
        "language": "en",
        "name": "images345",
        "description": "",
        "friendlyUrl": "images345",
        "keyWords": "",
        "highlights": null,
        "metaDescription": "",
        "title": "images345"
      },
      "productPrice": {
        "id": 1103,
        "originalPrice": "US$0.00",
        "finalPrice": "US$0.00",
        "discounted": false,
        "description": {
```

```
      "id": 5406,
      "language": "en",
      "name": null,
      "description": null,
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": null,
      "metaDescription": null,
      "title": null,
      "priceAppender": null
    }
  },
  "finalPrice": "US$0.00",
  "originalPrice": "US$0.00",
  "discounted": false,
  "image": {
   "id": 559,
   "imageName": "45119522_fon01a.jpeg",
   "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/images345/SMALL/45119522_fo
n01a.jpeg",
   "externalUrl": null,
   "videoUrl": null,
   "imageType": 0,
   "defaultImage": true
  },
  "images": [
   {
     "id": 558,
     "imageName": "4548 0.jpg",
     "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/images345/SMALL/4548 0.jpg",
     "externalUrl": null,
     "videoUrl": null,
     "imageType": 0,
     "defaultImage": true
   },
   {
     "id": 559,
     "imageName": "45119522_fon01a.jpeg",
     "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/images345/SMALL/45119522_fo
n01a.jpeg",
     "externalUrl": null,
     "videoUrl": null,
     "imageType": 0,
     "defaultImage": true
   }
  ],
  "manufacturer": {
    "id": 1,
```

```
      "code": "DEFAULT",
      "order": 0,
      "description": {
        "id": 0,
        "language": null,
        "name": "DEFAULT",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    "attributes": null,
    "options": null,
    "categories": null,
    "type": null,
    "canBePurchased": false,
    "owner": null
  }
 ]
}
```

Product listing sidebar

Product listing sidebar should be able to display the following facets:

- Sub category
- Manufacturers (brands / style)
- Available colors

Sub category facets

Subcategory should be displayed in the sidebar. Api subcategory should be refreshed every time a category is clicked in the sidebar or in the upper menu.

Category facet details api

http://localhost:8080/api/v1/category/1

Category details api returns the list of subcategory

```
"children": [
 {
   "id": 1001,
   "code": "console",
```

```
    "sortOrder": 120,
    "visible": true,
    "featured": false,
    "lineage": "/1//1001/",
    "depth": 1,
    "parent": {
      "id": 1,
      "code": "table"
    },
    "description": {
      "id": 6,
      "language": "en",
      "name": "Console",
      "description": "",
      "friendlyUrl": "console",
      "keyWords": "",
      "highlights": "",
      "metaDescription": "",
      "title": "Importa | Console"
    },
    "productCount": 0,
    "store": "DEFAULT",
    "children": []
  }
]
```

Get product list when clicking on category facet

curl -X GET "http://localhost:8080/api/v1/products?store=DEFAULT&category=53&lang=en" -H "accept: application/json"

Response

```
{
  "totalPages": 1,
  "number": 10,
  "recordsTotal": 5,
  "recordsFiltered": 0,
  "products": [
    {
      "id": 1251,
      "price": 149.99,
      "quantity": 996,
      "sku": "buddhastatue3214",
      "productShipeable": true,
      "preOrder": false,
      "productVirtual": false,
```

...

Manufacturers facets api

10/4 JOB (1)

511 (7)

BLACK GHOST (1)

BROWNING (44)

BUCK WEAR (2)

KRYPTEK (2)

MOSSY OAK (4)

Get manufacturers per category

This api is triggered when a category is displayed

curl -X GET "http://localhost:8080/api/v1/category/1/manufacturers?store=DEFAULT&lang=en" -H "accept: application/json"

[
 {
   "id": 1,
   "code": "DEFAULT",
   "order": 0,
   "description": {
     "id": 1,
     "language": null,
     "name": Default,
     "description": "DEFAULT",
     "friendlyUrl": null,
     "keyWords": null,
     "highlights": null,
     "metaDescription": null,
     "title": null
   }
 },
 {
   "id": 100,
   "code": "roots",
   "order": 10,
   "description": {
     "id": 100,

```
    "language": null,
    "name": racine,
    "description": "",
    "friendlyUrl": "roots",
    "keyWords": null,
    "highlights": null,
    "metaDescription": null,
    "title": null
  }
 }
]
```

Get list of products by manufacturer

curl -X GET "http://localhost:8080/api/v1/products?lang=en&manufacturer=100" -H "accept: application/json"

Response

```
{
 "totalPages": 1,
 "number": 10,
 "recordsTotal": 7,
 "recordsFiltered": 0,
 "products": [
  {
    "id": 1251,
    "price": 149.99,
    "quantity": 996,
    "sku": "buddhastatue3214",
    "productShipeable": true,
    "preOrder": false,
    "productVirtual": false,
    "quantityOrderMaximum": 10,
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": true,
    "visible": true,
    "productSpecifications": {
     "height": 17,
     "weight": 18,
     "length": 10,
     "width": 12,
     "model": null,
     "manufacturer": null,
     "dimensionUnitOfMeasure": null,
     "weightUnitOfMeasure": null
    },
    ...
```

List option values by category api

Should allow multiple colors to be selected. The page will refresh on checkbox selection

Colour

☐ Black (22)

☐ Blue (12)

☐ Brown (9)

☐ Green (10)

☐ Grey (17)

☐ Khaki (3)

☐ Multicolored (3)

☐ Orange (2)

curl -X GET "http://aws-demo.shopizer.com:8080/api/v1/category/53/variants?store=DEFAULT&lang=en" -H "accept: application/json"

```
[
 {
  "name": "Couleur",
  "options": [
   {
    "name": "Light Grey",
```

```json
      "option": 1,
      "value": 400
    },
    {
      "name": "Charcoal",
      "option": 1,
      "value": 401
    },
    {
      "name": "White",
      "option": 1,
      "value": 403
    },
    {
      "name": "Brown",
      "option": 1,
      "value": 402
    }
  ]
},
{
  "name": "Size",
  "options": [
    {
      "name": "Small",
      "option": 2,
      "value": 5
    },
    {
      "name": "Large",
      "option": 2,
      "value": 7
    }
  ]
}
]
```

List products by colors

http://aws-demo.shopizer.com:8080/api/v1/products?lang=en&optionValues=401&optionValues=403

Or

http://aws-demo.shopizer.com:8080/api/v1/products?lang=en&optionValues=401,403

Response

```
{
 "totalPages": 1,
 "number": 2,
 "recordsTotal": 2,
 "recordsFiltered": 0,
 "products": [
  {
    "id": 150,
    "price": 89.99,
    "quantity": 500,
    "sku": "a1s2d3",
    "productShipeable": true,
    "preOrder": false,
    "productVirtual": false,
    "quantityOrderMaximum": 10,
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": true,
    "visible": true,
    "productSpecifications": {
      "height": 3,
      "weight": 1,
      "length": 10,
      "width": 10,
      "model": null,
      "manufacturer": null,
      "dimensionUnitOfMeasure": null,
      "weightUnitOfMeasure": null
    },
    "rating": 5,
    "ratingCount": 1,
    "sortOrder": 500,
    "dateAvailable": "2019-07-05",
    "refSku": "",
    "condition": null,
    "creationDate": "2019-07-05",
    "rentalDuration": 0,
    "rentalPeriod": 0,
    "rentalStatus": null,
    "description": {
      "id": 1650,
      "language": "en",
      "name": "Thai flat cussion",
      "description": "<p>\r\n\tThai cussion in organic tissue. Import from Thailand</p>\r\n",
      "friendlyUrl": "thai-flat-cussion",
      "keyWords": "",
      "highlights": "",
      "metaDescription": "",
      "title": "Wood Treasures - Thai cussion"
```

```
        },
        "productPrice": {
          "id": 1452,
          "originalPrice": "US$89.99",
          "finalPrice": "US$89.99",
          "discounted": false,
          "description": {
            "id": 7255,
            "language": "en",
            "name": null,
            "description": null,
            "friendlyUrl": null,
            "keyWords": null,
            "highlights": null,
            "metaDescription": null,
            "title": null,
            "priceAppender": null
          }
        },
        "finalPrice": "US$89.99",
        "originalPrice": "US$89.99",
        "discounted": false,
        "image": {
          "id": 150,
          "imageName": "16.jpg",
          "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/a1s2d3/SMALL/16.jpg",
          "externalUrl": null,
          "videoUrl": null,
          "imageType": 0,
          "defaultImage": true
        },
        "images": [
          {
            "id": 150,
            "imageName": "16.jpg",
            "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/a1s2d3/SMALL/16.jpg",
            "externalUrl": null,
            "videoUrl": null,
            "imageType": 0,
            "defaultImage": true
          }
        ],
        "manufacturer": {
          "id": 1,
          "code": "DEFAULT",
          "order": 0,
          "description": {
            "id": 0,
            "language": null,
```

```
        "name": "DEFAULT",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    "attributes": null,
    "options": [
      {
        "id": 1,
        "code": "COLOR",
        "type": "radio",
        "readOnly": false,
        "name": "Color",
        "lang": "en",
        "optionValues": [
          {
            "id": 405,
            "code": "white",
            "defaultValue": false,
            "sortOrder": 2,
            "image":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/white-100.jpg",
            "order": 0,
            "price": "US$5.00",
            "description": {
              "id": 0,
              "language": "en",
              "name": "White",
              "description": null,
              "friendlyUrl": null,
              "keyWords": null,
              "highlights": null,
              "metaDescription": null,
              "title": null
            }
          },
          {
            "id": 406,
            "code": "charcoal",
            "defaultValue": false,
            "sortOrder": 3,
            "image":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/charcoal-100.jpg",
            "order": 0,
            "price": "US$8.00",
            "description": {
              "id": 0,
```

```json
        "language": "en",
        "name": "Charcoal",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    }
  ]
}
],
"categories": [
  {
    "id": 53,
    "code": "decorations",
    "sortOrder": 50,
    "visible": true,
    "featured": false,
    "lineage": "/53/",
    "depth": 0,
    "parent": null,
    "description": {
      "id": 53,
      "language": null,
      "name": "Decorations",
      "description": "\r\n\tIndoor and outdoor decorations\r\n",
      "friendlyUrl": "decorations",
      "keyWords": "",
      "highlights": "",
      "metaDescription": "",
      "title": "Importa - Décorations"
    },
    "productCount": 0,
    "store": null,
    "children": []
  }
],
"type": {
  "id": 1,
  "code": "GENERAL",
  "name": "GENERAL",
  "allowAddToCart": false
},
"canBePurchased": true,
"owner": null
},
{
"id": 100,
"price": 129.99,
```

```
    "quantity": 47,
    "sku": "UC100",
    "productShipeable": true,
    "preOrder": false,
    "productVirtual": false,
    "quantityOrderMaximum": 1,
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": true,
    "visible": true,
    "productSpecifications": {
     "height": 17,
     "weight": 11,
     "length": 52,
     "width": 12,
     "model": null,
     "manufacturer": null,
     "dimensionUnitOfMeasure": null,
     "weightUnitOfMeasure": null
    },
    "rating": 0,
    "ratingCount": 0,
    "sortOrder": 1000,
    "dateAvailable": "2019-06-17",
    "refSku": "",
    "condition": null,
    "creationDate": "2019-06-17",
    "rentalDuration": 0,
    "rentalPeriod": 0,
    "rentalStatus": null,
    "description": {
     "id": 1250,
     "language": "en",
     "name": "Sofa available in different size and colors",
     "description": "<p>\r\n\tThis is a product having a choice of colors and sizes</p>\r\n",
     "friendlyUrl": "sofa-available-in-different-size-and-colors",
     "keyWords": "",
     "highlights": "",
     "metaDescription": "",
     "title": "Product with options and sizes"
    },
    "productPrice": {
     "id": 1601,
     "originalPrice": "US$129.99",
     "finalPrice": "US$129.99",
     "discounted": false,
     "description": {
      "id": 7752,
      "language": "en",
      "name": null,
      "description": null,
```

```json
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null,
        "priceAppender": null
      }
    },
    "finalPrice": "US$129.99",
    "originalPrice": "US$129.99",
    "discounted": false,
    "image": {
      "id": 851,
      "imageName": "27.jpg",
      "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/UC100/SMALL/27.jpg",
      "externalUrl": null,
      "videoUrl": null,
      "imageType": 0,
      "defaultImage": true
    },
    "images": [
      {
        "id": 851,
        "imageName": "27.jpg",
        "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/UC100/SMALL/27.jpg",
        "externalUrl": null,
        "videoUrl": null,
        "imageType": 0,
        "defaultImage": true
      }
    ],
    "manufacturer": {
      "id": 1,
      "code": "DEFAULT",
      "order": 0,
      "description": {
        "id": 0,
        "language": null,
        "name": "DEFAULT",
        "description": null,
        "friendlyUrl": null,
        "keyWords": null,
        "highlights": null,
        "metaDescription": null,
        "title": null
      }
    },
    "attributes": null,
    "options": [
```

```
    {
      "id": 1,
      "code": "COLOR",
      "type": "radio",
      "readOnly": false,
      "name": "Color",
      "lang": "en",
      "optionValues": [
        {
          "id": 403,
          "code": "charcoal",
          "defaultValue": false,
          "sortOrder": 1,
          "image":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/charcoal-100.jpg",
          "order": 0,
          "price": "US$10.00",
          "description": {
            "id": 0,
            "language": "en",
            "name": "Charcoal",
            "description": null,
            "friendlyUrl": null,
            "keyWords": null,
            "highlights": null,
            "metaDescription": null,
            "title": null
          }
        }
      ]
    }
  ],
  "categories": [
    {
      "id": 53,
      "code": "decorations",
      "sortOrder": 50,
      "visible": true,
      "featured": false,
      "lineage": "/53/",
      "depth": 0,
      "parent": null,
      "description": {
        "id": 53,
        "language": null,
        "name": "Decorations",
        "description": "\r\n\tIndoor and outdoor decorations\r\n",
        "friendlyUrl": "decorations",
        "keyWords": "",
        "highlights": "",
        "metaDescription": "",
```

```
        "title": "Importa - Décorations"
      },
      "productCount": 0,
      "store": null,
      "children": []
    }
   ],
   "type": {
    "id": 1,
    "code": "GENERAL",
    "name": "GENERAL",
    "allowAddToCart": false
   },
   "canBePurchased": true,
   "owner": null
  }
 ]
}
```

Product details (regular product page)

** See product details **

<mark>Product rating</mark>

Display product rating (can be performed using raty plugin)

Product rating is available from product details or from product listing response

```
    "rating": 4.5,
    "ratingCount": 2,
```

Get product reviews

```
curl -X GET --header 'Accept: application/json'
'http://localhost:8080/api/v1/products/1/reviews?store=DEFAULT'
```

★ CUSTOMER REVIEW(S)

Customer review(s)

You have to be authenticated to write a review

★ ★ ★ ★ ★

Test opinion

— Hamza Mehboob 2020-06-02

Post product review

__ customer must be authenticated to perform a review

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d
'<See below>' 'http://localhost:8080/api/v1/auth/products/1/reviews?store=DEFAULT'
```

```
{
 "customerId": 12345,
 "date": "string",
 "description": "Excellent product",
 "language": "en",
 "productId": 1,
 "rating": 4.5
}
```

Once a review has been created the product details has to be reloaded automatically.

Customer Sign In

Request

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "password": "password", \
  "username": "samsoncarl%40gmail.com" \
}' 'http://localhost:8080/api/v1/customer/login?store=DEFAULT'
```

Response

```
{
```

```
  "id": 1,
  "token":
"eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJzYW1zb25jYXJsQGdtYWlsLmNvbSIsImF1ZCI6InVua25vd24iLCJleHAiOj
E1MzY2ODY3NTcsImlhdCI6MTUzNjA4MTk1N30.UfEtRG4qGPPaQfoDTozFIbCvHaevmRf8diDJyXrOvkFP4bz
LqKFLXh9bGLfu_RipHGJx0hUFt9T69gCiQxHp8Q"
}
```

Get user token that will be used in authenticated header

Now get customer profile using the token

GET /api/v1/auth/customers/profile

Header authorization key

Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJzYW1zb25jYXJsQGdtYWlsLmNvbSIsImF1ZCI6InVua25vd24iLCJleHAiOj
E1MzY3MTcwNzksImlhdCI6MTUzNjExMjI3OX0._jIhKpbAR8RaE0ounedt6EuedjXSGZecpcpzTVZFlt0ZaEQSm
DKwOEHu8Va0uQdd8b62nJk940bugSHyqxlL9g

Customer section

Register customer

```
Request

{
  "emailAddress": "test@test.com",
  "gender": "M",
  "language": "en",
  "password": "password001!",
  "repeatPassword": "password001!",
 "billing": {
    "address": "123 a street",
    "city": "City name",
    "country": "US",
    "firstName": "John",
    "lastName": "Bishop",
    "postalCode": "12345",
    "stateProvince": "CA",
 }
```

```
}
```

- Email address must be valid format
- Password must be 8 char long alphanumeric and contains at least 1 special character
- repeatPassword matches password
- All fields are required

curl -X POST "http://localhost:8080/api/v1/customer/register?store=DEFAULT" -H "accept: application/json" -H "Content-Type: application/json" -d "..."

Response returns an error message or the customer id and token that can be used for getting a customer profile.

```
{
 "id": 1000,
  "token":
"eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ0ZXN0QHRlc3QuY29tIiwiYXVkIjoiYXBpIiwiZXhwIjoxNjA5
Nzk1ODU2LCJpYXQiOjE2MDkxOTEwNTZ9.aX0bMyMGfEHpfJ69nBXklFXmUCg6w5Puu1WL5
svm2kqQpSUTJR1NRYiLd8GBiOccmmBiiH4_uuHdln32VADSbw"
}
```

The response above indicates that the registration process is successful.
** This is a temporary flow. In a near future an email will have to be confirmed.

Next request will retrieve customer profile in order to display customer dashboard

Get Customer Profile

curl -X GET "http://localhost:8080/api/v1/auth/customer/profile" -H "accept: application/json" -H "Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ0ZXN0QHRlc3QuY29tIiwiYXVkIjoiYXBpIiwiZXhwIjoxNjA5N zk1ODU2LCJpYXQiOjE2MDkxOTEwNTZ9.aX0bMyMGfEHpfJ69nBXklFXmUCg6w5Puu1WL5s vm2kqQpSUTJR1NRYiLd8GBiOccmmBiiH4_uuHdln32VADSbw"

Response

```
{
      "id": 1000,
      "emailAddress": "test@test.com",
      "billing": {
              "postalCode": "12345",
```

```
                "countryCode": null,
                "firstName": "John",
                "lastName": "Bishop",
                "bilstateOther": null,
                "company": null,
                "phone": null,
                "address": "123 a street",
                "city": "City name",
                "stateProvince": "CA",
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": null,
                "country": "US"
        },
        "delivery": null,
        "gender": "M",
        "language": "en",
        "firstName": "John",
        "lastName": "Bishop",
        "provider": null,
        "storeCode": null,
        "userName": "test@test.com",
        "rating": 0,
        "ratingCount": 0,
        "attributes": [],
        "groups": []
}
```

Login Customer

curl -X POST "http://localhost:8080/api/v1/customer/login" -H "accept: application/json" -H "Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ0ZXN0QHRlc3QuY29tIiwiYXVkIjoiYXBpIiwiZXhwIjoxNjA5Nzk1ODU2LCJpYXQiOjE2MDkxOTEwNTZ9.aX0bMyMGfEHpfJ69nBXklFXmUCg6w5Puu1WL5svm2kqQpSUTJR1NRYiLd8GBiOccmmBiiH4_uuHdln32VADSbw" -H "Content-Type: application/json" -d "{ \"password\": \"password001!\", \"username\": \"<u>test@test.com</u>\"}"

Get Customer Profile

curl -X GET "http://localhost:8080/api/v1/auth/customer/profile" -H "accept: application/json" -H "Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJ0ZXN0QHRlc3QuY29tIiwiYXVkIjoiYXBpIiwiZXhwIjoxNjA5Nzk1ODU2LCJpYXQiOjE2MDkxOTEwNTZ9.aX0bMyMGfEHpfJ69nBXklFXmUCg6w5Puu1WL5svm2kqQpSUTJR1NRYiLd8GBiOccmmBiiH4_uuHdln32VADSbw"

Get customer cart

Once a customer is authenticated a new request allows recuperation of an existing customer shopping cart.

** If the user already has a shopping cart when browsing anonymously this anonymous cart must be merged with a possible existing cart.

If a cart exists in the cookie then a parameter ?cart must be added to the query to merge the existing cart. Otherwise no parameter is required.

curl -X GET "http://localhost:8080/api/v1/auth/cart?store=DEFAULT&cart=62ed9baf589d4ce3bd91ed4dc87c7dcc" -H "accept: application/json" -H "Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJjc2Ftc29uNzc3QHlhaG9vLmNvbSIsImF1ZCI6ImFwaSIsImV4cCI6MTYxMDY3MDg3NywiaWF0IjoxNjEwMDY2MDc3fQ.dTrRnGQ8qH1tUXOWXwwCQMaWegGwZfwnameg9G8RdgusETw9Wc7XnQ5xV18qivDMKuB6yBm35nHm_a5Fh4gAoA"

Response

```
{
        "id": 91900,
        "language": null,
        "code": "62ed9baf589d4ce3bd91ed4dc87c7dcc",
        "subtotal": 389.97,
        "displaySubTotal": "US$389.97",
        "total": 389.97,
        "displayTotal": "US$389.97",
        "quantity": 3,
        "order": null,
        "products": [{
                                ...
```

** Cart code received in payload must be stored in the user cookie

Get customer orders

Request

```
curl -X GET \
http://localhost:8080/api/v1/auth/orders \
-H 'Accept: ' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJqb2huQGNzdGljb25zdWx0aW5nLmNvbSIsImF1ZCI6IndlYiIsIm
V4cCI6MTU2OTQ1ODMxNywiaWF0IjoxNTY4ODUzNTE3fQ.P0dDJVqCMAuv396s9K5Oz-
NlM3dZ5kQVxVraIDgZC7RE5FJ8z-JV_6Pc6C6bEdyn4FIK7euhxAJo8RP-ZgYbIA' \
```

Response

```
{
        "totalCount": 0,
        "recordsTotal": 0,
        "draw": 0,
        "recordsFiltered": 0,
        "total": 1,
        "orders": [{
                "id": 150,
                "totals": [{
                                "id": 150,
                                "title": null,
                                "text": null,
                                "code": "order.total.subtotal",
                                "order": 5,
                                "module": "subtotal",
                                "value": 129.9900
                        },
                        {
                                "id": 151,
                                "title": null,
                                "text": null,
                                "code": "order.total.shipping",
                                "order": 100,
                                "module": "shipping",
                                "value": 19.9900
                        },
                        {
                                "id": 152,
                                "title": null,
                                "text": null,
                                "code": "order.total.total",
                                "order": 500,
                                "module": "total",
                                "value": 149.9800
                        }
                ],
                "attributes": [],
                "paymentType": "MONEYORDER",
                "paymentModule": "moneyorder",
```

"shippingModule": "weightBased",
"previousOrderStatus": null,
"orderStatus": "ORDERED",
"creditCard": null,
"datePurchased": 1568779200000,
"currency": "USD",
"customerAgreed": true,
"confirmedAddress": false,
"comments": null,
"customer": {
        "id": 200,
        "emailAddress": "john@csticonsulting.com",
        "billing": {
                "postalCode": "60661",
                "countryCode": null,
                "firstName": "John",
                "lastName": "Doe",
                "bilstateOther": null,
                "company": "",
                "phone": "4445556666",
                "address": "567 West Lake Street",
                "city": "Chicago",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "IL",
                "country": "US"
        },
        "delivery": {
                "postalCode": "60661",
                "countryCode": null,
                "firstName": "John",
                "lastName": "Doe",
                "bilstateOther": null,
                "company": "",
                "phone": "4445556666",
                "address": "567 West Lake Street",
                "city": "Chicago",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "IL",
                "country": "US"
        },
        "gender": null,
        "language": null,
        "firstName": "John",
        "lastName": "Doe",
        "provider": null,
        "storeCode": null,
        "userName": null,
        "rating": 0.0,
        "ratingCount": 0,
        "attributes": [],
        "groups": []
},

```
"products": [{
        "id": 150,
        "orderedQuantity": 1,
        "product": {
                "id": 50,
                "price": 129.99,
                "quantity": 499,
                "sku": "SKU111",
                "productShipeable": false,
                "preOrder": false,
                "productVirtual": false,
                "quantityOrderMaximum": 0,
                "quantityOrderMinimum": 0,
                "productIsFree": false,
                "available": true,
                "visible": true,
                "productSpecifications": {
                        "height": 16.00,
                        "weight": 18.00,
                        "length": 12.00,
                        "width": 12.00,
                        "model": null,
                        "manufacturer": null,
                        "dimensionUnitOfMeasure": null,
                        "weightUnitOfMeasure": null
                },
                "rating": 0.0,
                "ratingCount": 0,
                "sortOrder": 0,
                "dateAvailable": "2019-06-06",
                "refSku": "",
                "condition": null,
                "creationDate": "2019-06-06",
                "rentalDuration": 0,
                "rentalPeriod": 0,
                "rentalStatus": null,
                "description": {
                        "id": 1050,
                        "language": "en",
                        "name": "Compact night table",
                        "description": "Compact night table",
                        "friendlyUrl": "compact-night-table",
                        "keyWords": null,
                        "highlights": "",
                        "metaDescription": "",
                        "title": "Wood Treasures - Night table"
                },
                "finalPrice": "US$129.99",
                "originalPrice": "US$249.99",
                "discounted": true,
                "image": {
                        "id": 50,
                        "imageName": "night-table.jpg",
                        "imageUrl": "/static/products/DEFAULT/SKU111/SMALL/night-table.jpg",
                        "externalUrl": null,
                        "videoUrl": null,
                        "imageType": 0,
                        "defaultImage": true
```

```
                },
                "images": [{
                        "id": 50,
                        "imageName": "night-table.jpg",
                        "imageUrl": "/static/products/DEFAULT/SKU111/SMALL/night-table.jpg",
                        "externalUrl": null,
                        "videoUrl": null,
                        "imageType": 0,
                        "defaultImage": true
                }],
                "manufacturer": {
                        "id": 1,
                        "code": "DEFAULT",
                        "order": 0,
                        "description": {
                                "id": 0,
                                "language": null,
                                "name": "DEFAULT",
                                "description": null,
                                "friendlyUrl": null,
                                "keyWords": null,
                                "highlights": null,
                                "metaDescription": null,
                                "title": null
                        }
                },
                "attributes": null,
                "options": null,
                "categories": [{
                        "id": 100,
                        "code": "nighttables",
                        "sortOrder": 500,
                        "visible": true,
                        "featured": false,
                        "lineage": "/50/100/",
                        "depth": 1,
                        "parent": {
                                "id": 50,
                                "code": "bedroom"
                        },
                        "description": {
                                "id": 100,
                                "language": null,
                                "name": "Night Tables",
                                "description": "Night Tables",
                                "friendlyUrl": "night-tables",
                                "keyWords": "",
                                "highlights": "",
                                "metaDescription": "",
                                "title": "Wood Treasures - Night Tables"
                        },
                        "productCount": 0,
                        "children": []
                }],
                "canBePurchased": true,
                "owner": null
        },
        "productName": "Compact night table",
```

```
                "price": "US$129.99",
                "subTotal": "US$129.99",
                "attributes": [],
                "sku": "SKU111",
                "image": "night-table.jpg"
    }],
    "currencyModel": {
                "id": 61,
                "currency": "USD",
                "supported": true,
                "code": "USD",
                "name": "USD",
                "symbol": "US$",
                "new": false
    },
    "billing": {
                "postalCode": "60661",
                "countryCode": null,
                "firstName": "John",
                "lastName": "Doe",
                "bilstateOther": null,
                "company": "",
                "phone": "4445556666",
                "address": "567 West Lake Street",
                "city": "Chicago",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "IL",
                "country": "US"
    },
    "delivery": {
                "postalCode": "60661",
                "countryCode": null,
                "firstName": "John",
                "lastName": "Doe",
                "bilstateOther": null,
                "company": "",
                "phone": "4445556666",
                "address": "567 West Lake Street",
                "city": "Chicago",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "IL",
                "country": "US",
                "countryName": null,
                "provinceName": null
    },
    "total": {
                "id": 152,
                "title": null,
                "text": null,
                "code": "order.total.total",
                "order": 500,
                "module": "total",
```

```
                                "value": 149.9800
                },
                "tax": null,
                "shipping": {
                                "id": 151,
                                "title": null,
                                "text": null,
                                "code": "order.total.shipping",
                                "order": 100,
                                "module": "shipping",
                                "value": 19.9900
                }
        }]
}
```

Get customer order details

Order details presents details of the order and a functionality to print the order.

Request

```
curl -X GET \
http://localhost:8080/api/v1/auth/orders \
-H 'Accept: ' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJqb2huQGNzdGljb25zdWx0aW5nLmNvbSIsImF1ZCI6IndlYiIsIm
V4cCI6MTU2OTQ1ODMxNywiaWF0IjoxNTY4ODUzNTE3fQ.P0dDJVqCMAuv396s9K5Oz-
NlM3dZ5kQVxVraIDgZC7RE5FJ8z-JV_6Pc6C6bEdyn4FIK7euhxAJo8RP-ZgYbIA' \
```

Change customer profile

A new section is required that will display the customer username and customer email address. Section is located above Billing address and is named 'Your account'

Field 1 is username and it displays customer username in read only (can't edit username). Second field is Email address and can be edited.

Those informations are obtained once the customer has logged in from the customer profile api.

```
1.  BILLING ADDRESS                                                                    ⌄
```

```
{
        "id": 5700,
        "emailAddress": "carl@csticonsulting.com",
        "billing": {
```

```
                "postalCode": "J0R 1R5",
                "countryCode": null,
                "firstName": "Reggie",
                "lastName": "Dunlop",
                "bilstateOther": null,
                "company": null,
                "phone": "4445556666",
                "address": "452,Chemin du Lac-Millette",
                "city": "Saint-Sauveur",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "QC",
                "country": "CA"
        },
        "delivery": {
                "postalCode": "QC",
                "countryCode": null,
                "firstName": "Regie",
                "lastName": "Dunlop",
                "bilstateOther": null,
                "company": null,
                "phone": "4445556666",
                "address": null,
                "city": "Québec",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "QC",
                "country": "CA"
        },
        "gender": "M",
        "language": "en",
        "firstName": "Reggie",
        "lastName": "Dunlop",
        "provider": null,
        "storeCode": null,
        "userName": "carl@csticonsulting.com",
        "rating": 0,
        "ratingCount": 0,
        "attributes": [],
        "groups": []
}
```

Update customer account

curl -X PATCH "http://localhost:8080/api/v1/auth/customer/" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"emailAddress\"}"

Change customer address

TBD

Change customer password

TBD

Delete Customer Account

The system must allow deletion of a customer. Customer is presented with an option to delete his profile from the system.

In the customer profile there should be an option allowing to delete one's profile. The section should be located under Change Your Password and should be named 'Delete your account'. This simple section contains only a red button with the label 'Delete Account'. Once clicked the user must accept a prompt confirming 'Are you sure you want to delete your account'.

Once an account has been deleted, customer cookie is deleted (** NOT THE SHOPPING CART**) and the user should be redirected to the home page.

Delete customer account api

curl -X DELETE "http://localhost:8080/api/v1/auth/customer/" -H "accept: application/json"

Reset customer password
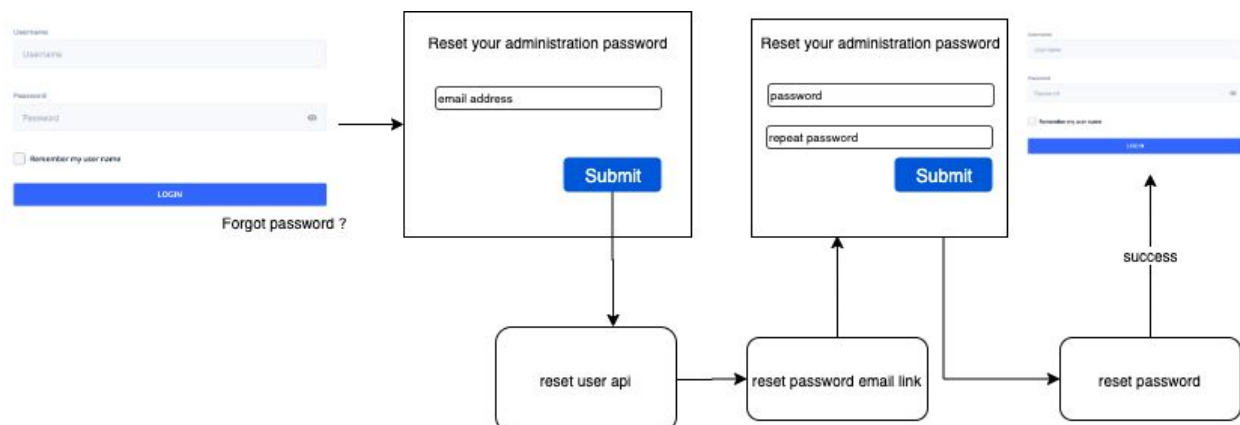
Customer clicks on reset password link. This opens a page inviting the customer to put in its email address. Once a **valid** email address has been entered, reset password is then invoked. The api generates a reset password email sent back to the user with a link. User clicks on the link which invokes a page that will open on the application and will send back validation to a second api with validation token. Upon success the user is presented with a reset password page. If token validation fails, the logon page is displayed with an error message.

Upon success customers can enter a valid new email address (password + reset password). Validation of the new password is done through the api. If reset is unsuccessful then reset password is displayed with an error message. If the reset password was successful then the customer is sent back on the login page.

Submit customer email

curl -X POST "http://localhost:8080/api/v1/customer/password/reset/request" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"username\": \"carl@csticonsulting.com\"}"

Possible return codes are:
404 : customer is not found
200 : success
50X : system error

Front will mention a request has been sent and the display should mention the customer to go check their email. Customer will click on url leading to react application. Example of Message:

Hi John,

Somebody requested your account password to be reset at Importa. If you didn't ask this, you just can ignore the email.

Reset password link Link

If you have any questions on this request, please send an email to carl@shopizer.com in order to receive more details.

Link will be sent web application url

Domain anime and scheme http://localhost:8080 are configured in store administration

http://localhost:3000/customer/DEFAULT/reset/d7dac8af-17a0-4054-8948-fc65cd644626

The link above contains the store code for the customer (DEFAULT) and a unique Hash token attached to the request.

Validate customer token clicked

Once in ReactJs app a token validation must occur to validate that the token is still valid and has not expired (valid 48 hres)
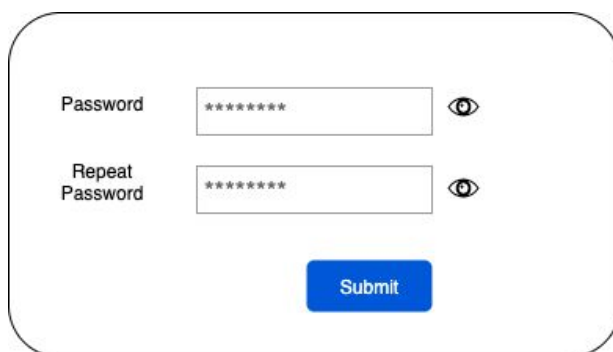
curl -X GET
"http://localhost:8080/api/v1/customer/DEFAULT/reset/d7dac8af-17a0-4054-8948-fc65cd64462
6" -H "accept: application/json"

Expect response code 200 meaning that the token is still valid. If the token is expired or an error occurred, then the login page must be displayed with the error message.

Open reset password page

Once token validation has been performed then the customer can change its password

Submit a new password

curl -X POST
"http://localhost:8080/api/v1/customer/DEFAULT/password/d7dac8af-17a0-4054-8948-fc65cd64
4626" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"password\":
\"password\", \"repeatPassword\": \"password\"}"

Expected response codes
200 : success
400 : validation error
503 : system error

In case of 200 code (success) or 503 the logon page is loaded inviting the customer to open a new session now that they have reset the password.

Checkout

Checkout flow has a few api calls depending on the customer state. A customer can proceed with checkout while being anonymous or while being logged in.

Checkout flow describes the following sample shopping cart

ITEM	QUANTITY	PRICE	TOTAL	
Sofa available in different size and colors Color - Charcoal Size - Large	2	US$139.99	US$279.98	✕

A checkout page will contain the following informations:

Customer information
Order summary
Subtotals
Shipping quotes
Payment

Checkout

BILLING INFORMATION

First name*

Last name*

Billing company

Enter your address

Street address *

City *

Country *

Canada

State / province *

Quebec

Postal code *

Email address *

Phone number *

SHIP TO A DIFFERENT ADDRESS? ☐

Order notes

Notes for the order or delivery

ORDER SUMMARY

ITEM	TOTAL
Sofa available in different size and colors **x 2** Color - Charcoal Size - Large	US$279.98
SUBTOTAL **Order total**	US$279.98
SHIPPING **Order total**	US$0.00

Shipping Quotes A shipping quote will be available after filling the postal code

SHIPPING FEES

🔘 Store pick up: US$0.00

This option let you reserve you order items through the online system and pick up your order by yourself at the store. This option is also offered when no other shipping option is available for your region.

TOTAL **Order total** US$279.98

Credit card

Use your credit card **Payment**

VISA MasterCard AMERICAN EXPRESS

Card Holder's Name*

Card number*
For testing payment use card number 5555555555554444 and any cvv 3 digits

Card expiry date*

01   2020

Card validation number*

What is a credit card validation number?

☐ I agree with the terms and conditions

First name is required

SUBMIT ORDER

Customer is anonymous flow:

System must do the following:

(1) <u>Get Order Summary</u> (shopping cart products)
(2) <u>Get Default Shipping Quote</u>
(3) <u>Get Order Total</u> (calculation of totals)

<u>Get order summary</u>

Request
curl -X GET "http://localhost:8080/api/v1/cart/2a0fdcc62e2a491481f3e968e1f0d386?store=DEFAULT" -H "accept: application/json"

Response

```
{
 "id": 72167,
 "language": null,
 "code": "2a0fdcc62e2a491481f3e968e1f0d386",
 "subtotal": 279.98,
 "displaySubTotal": "US$279.98",
 "total": 279.98,
 "displayTotal": "US$279.98",
 "quantity": 2,
 "order": null,
 "products": [
  {
    "id": 100,
    "price": 139.99,
    "quantity": 2,
    "sku": "UC100",
    "productShipeable": true,
    "preOrder": false,
    "productVirtual": false,
    "quantityOrderMaximum": 1,
    "quantityOrderMinimum": 1,
    "productIsFree": false,
    "available": true,
    "visible": true,
    "productSpecifications": {
     "height": 17,
     "weight": 11,
     "length": 52,
     "width": 12,
     "model": null,
     "manufacturer": null,
     "dimensionUnitOfMeasure": null,
     "weightUnitOfMeasure": null
    },
    "rating": 0,
    "ratingCount": 0,
```

```
"sortOrder": 1000,
"dateAvailable": "2019-06-16",
"refSku": "",
"condition": null,
"creationDate": "2019-06-17",
"rentalDuration": 0,
"rentalPeriod": 0,
"rentalStatus": null,
"description": {
 "id": 1250,
 "language": "en",
 "name": "Sofa available in different size and colors",
 "description": "<p>\r\n\tThis is a product having a choice of colors and sizes</p>\r\n",
 "friendlyUrl": "sofa-available-in-different-size-and-colors",
 "keyWords": "",
 "highlights": "",
 "metaDescription": "",
 "title": "Product with options and sizes"
},
"productPrice": {
 "id": 1601,
 "originalPrice": "US$129.99",
 "finalPrice": "US$129.99",
 "discounted": false,
 "description": {
  "id": 7752,
  "language": "en",
  "name": null,
  "description": null,
  "friendlyUrl": null,
  "keyWords": null,
  "highlights": null,
  "metaDescription": null,
  "title": null,
  "priceAppender": null
 }
},
"finalPrice": "US$139.99",
"originalPrice": "US$129.99",
"discounted": false,
"image": {
 "id": 851,
 "imageName": "27.jpg",
 "imageUrl": "https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/UC100/SMALL/27.jpg",
 "externalUrl": null,
 "videoUrl": null,
 "imageType": 0,
 "defaultImage": true
},
"images": [
 {
  "id": 851,
  "imageName": "27.jpg",
  "imageUrl": "https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/UC100/SMALL/27.jpg",
  "externalUrl": null,
  "videoUrl": null,
  "imageType": 0,
```

```json
      "defaultImage": true
    }
  ],
  "manufacturer": {
    "id": 1,
    "code": "DEFAULT",
    "order": 0,
    "description": {
      "id": 0,
      "language": null,
      "name": "DEFAULT",
      "description": null,
      "friendlyUrl": null,
      "keyWords": null,
      "highlights": null,
      "metaDescription": null,
      "title": null
    }
  },
  "attributes": null,
  "options": [
    {
      "id": 1,
      "code": "COLOR",
      "type": "radio",
      "readOnly": false,
      "name": "Color",
      "lang": "en",
      "optionValues": [
        {
          "id": 402,
          "code": "light-grey",
          "defaultValue": true,
          "sortOrder": 0,
          "image": "https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/grey-100.jpg",
          "order": 0,
          "price": null,
          "description": {
            "id": 0,
            "language": "en",
            "name": "Light Grey",
            "description": null,
            "friendlyUrl": null,
            "keyWords": null,
            "highlights": null,
            "metaDescription": null,
            "title": null
          }
        },
        {
          "id": 403,
          "code": "charcoal",
          "defaultValue": false,
          "sortOrder": 1,
          "image": "https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/charcoal-100.jpg",
          "order": 0,
          "price": "US$10.00",
```

```json
        "description": {
          "id": 0,
          "language": "en",
          "name": "Charcoal",
          "description": null,
          "friendlyUrl": null,
          "keyWords": null,
          "highlights": null,
          "metaDescription": null,
          "title": null
        }
      }
    ]
  },
  {
    "id": 2,
    "code": "SIZE",
    "type": "select",
    "readOnly": false,
    "name": "Size",
    "lang": "en",
    "optionValues": [
      {
        "id": 4,
        "code": "SMALL",
        "defaultValue": false,
        "sortOrder": 0,
        "image": null,
        "order": 0,
        "price": null,
        "description": {
          "id": 0,
          "language": "en",
          "name": "Small",
          "description": null,
          "friendlyUrl": null,
          "keyWords": null,
          "highlights": null,
          "metaDescription": null,
          "title": null
        }
      },
      {
        "id": 6,
        "code": "LARGE",
        "defaultValue": true,
        "sortOrder": 0,
        "image": null,
        "order": 0,
        "price": null,
        "description": {
          "id": 0,
          "language": "en",
          "name": "Large",
          "description": null,
          "friendlyUrl": null,
          "keyWords": null,
```

```json
          "highlights": null,
          "metaDescription": null,
          "title": null
        }
      }
    ]
  }
],
"categories": [
  {
    "id": 53,
    "code": "decorations",
    "sortOrder": 50,
    "visible": true,
    "featured": false,
    "lineage": "/53/",
    "depth": 0,
    "parent": null,
    "description": {
      "id": 53,
      "language": null,
      "name": "Decorations",
      "description": "\r\n\tIndoor and outdoor decorations\r\n",
      "friendlyUrl": "decorations",
      "keyWords": "",
      "highlights": "",
      "metaDescription": "",
      "title": "Importa - Décorations"
    },
    "productCount": 0,
    "store": null,
    "children": []
  }
],
"type": {
  "id": 1,
  "code": "GENERAL",
  "name": "GENERAL",
  "allowAddToCart": false
},
"canBePurchased": true,
"owner": null,
"subTotal": 279.98,
"displaySubTotal": "US$279.98",
"cartItemattributes": [
  {
    "id": 2053,
    "language": null,
    "option": {
      "id": 1,
      "code": "COLOR",
      "type": null,
      "readOnly": false,
      "name": "Color",
      "lang": null,
      "optionValues": []
    },
```

```
      "optionValue": {
        "id": 401,
        "code": "charcoal",
        "defaultValue": false,
        "sortOrder": 0,
        "image": null,
        "price": null,
        "name": "Charcoal"
      }
    }
   ]
  }
 ],
 "totals": [
  {
   "id": 0,
   "title": null,
   "text": null,
   "code": "order.total.subtotal",
   "order": 0,
   "module": null,
   "value": 279.98,
   "total": null,
   "discounted": false
  },
  {
   "id": 0,
   "title": null,
   "text": null,
   "code": "order.total.total",
   "order": 0,
   "module": null,
   "value": 279.98,
   "total": null,
   "discounted": false
  }
 ],
 "customer": null
}
```

Get Default Shipping Quote

When checkout form is displayed a default shipping quote is presented when the system has enough data to quote shipping otherwise an empty list of shipping options will be presented forcing checkout to remove shipping price.

Request for default shipping quote
Empty country code and empty postal code

curl -X POST
"http://localhost:8080/api/v1/cart/be143cbe340744579db3bd5897e49455/shipping" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"countryCode\": \"\", \"postalCode\":

\"\"}"

Response (No shipping Quotes)

```
{
        "shipping": 0,
        "handling": null,
        "shippingModule": "customQuotesRules",
        "shippingOption": null,
        "freeShipping": false,
        "taxOnShipping": false,
        "shippingQuote": true,
        "shippingText": "US$0.00",
        "handlingText": "",
        "delivery": {
                "postalCode": null,
                "countryCode": null,
                "firstName": null,
                "lastName": null,
                "bilstateOther": null,
                "company": null,
                "phone": null,
                "address": null,
                "city": null,
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": null,
                "country": "CA",
                "countryName": null,
                "provinceName": null
        },
        "selectedShippingOption": null,
        "shippingOptions": [],
        "quoteInformations": {}
}
```

Checkout without shipping price

Your order

Product		Total
Sofa available in different size and colors	X 2	US$139.99
Subtotal		US$279.98
Total		**US$279.98**

Response with default shipping options

```
{
        "shipping": 0,
        "handling": null,
        "shippingModule": "customQuotesRules",
        "shippingOption": null,
        "freeShipping": false,
        "taxOnShipping": false,
        "shippingQuote": true,
        "shippingText": "US$0.00",
        "handlingText": "",
        "delivery": {
                "postalCode": null,
                "countryCode": null,
                "firstName": null,
                "lastName": null,
                "bilstateOther": null,
                "company": null,
                "phone": null,
                "address": null,
```

```
                    "city": null,
                    "stateProvince": null,
                    "billingAddress": false,
                    "latitude": null,
                    "longitude": null,
                    "zone": null,
                    "country": "CA",
                    "countryName": null,
                    "provinceName": null
            },
            "selectedShippingOption": null,
            "shippingOptions": [{
                    "optionPrice": 0,
                    "shippingQuoteOptionId": 10500,
                    "optionName": "Store pick up",
                    "optionCode": "storePickUp",
                    "optionDeliveryDate": null,
                    "optionShippingDate": null,
                    "optionPriceText": "US$0.00",
                    "optionId": "storePickUp_null",
                    "description": "Store pick up",
                    "shippingModuleCode": "storePickUp",
                    "note": "This option lets you reserve your order items through the online system and pick up your order by
yourself at the store. This option is also offered when no other shipping option is available for your region.",
                    "estimatedNumberOfDays": null
            }],
            "quoteInformations": {}
}
```

SUBTOTAL	US$169.99
SHIPPING	US$0.00
SHIPPING FEES	A shipping quote will be available after filling the postal code ◉ Store pick up: US$0.00 This option let you reserve you order items through the online system and pick up your order by yourself at the store. This option is also offered when no other shipping option is available for your region.
TOTAL	US$169.99

Get Order total

No shipping quote

Request

curl -X GET "http://localhost:8080/api/v1/cart/be143cbe340744579db3bd5897e49455/total" -H "accept: application/json"

Response

```
{
        "subTotal": "US$279.98",
        "total": "US$279.98",
        "taxTotal": null,
        "totals": [{
                        "id": null,
                        "title": "Subtotal",
                        "text": null,
```

```
                    "code": "order.total.subtotal",
                    "order": 5,
                    "module": "subtotal",
                    "value": 279.98,
                    "total": "US$279.98",
                    "discounted": false
            },
            {

                    "id": null,
                    "title": "Total",
                    "text": null,
                    "code": "order.total.total",
                    "order": 500,
                    "module": "total",
                    "value": 279.98,
                    "total": "US$279.98",
                    "discounted": false
            }
        ]
}
```

With default shipping quote

Request

curl -X GET "http://localhost:8080/api/v1/cart/be143cbe340744579db3bd5897e49455/total?quote=10500" -H "accept: application/json"

Response

```
{
        "subTotal": "US$279.98",
        "total": "US$279.98",
        "taxTotal": null,
        "totals": [{
                        "id": null,
                        "title": "Subtotal",
                        "text": null,
                        "code": "order.total.subtotal",
                        "order": 5,
                        "module": "subtotal",
                        "value": 279.98,
                        "total": "US$279.98",
                        "discounted": false
                },
                {
                        "id": null,
                        "title": "Shipping",
                        "text": null,
                        "code": "order.total.shipping",
                        "order": 100,
                        "module": "shipping",
                        "value": 0,
                        "total": "US$0.00",
                        "discounted": false
                },
```

```
                    {
                            "id": null,
                            "title": "Total",
                            "text": null,
                            "code": "order.total.total",
                            "order": 500,
                            "module": "total",
                            "value": 279.98,
                            "total": "US$279.98",
                            "discounted": false
                    }
            ]
    }
}
```

Customer interactions

The customer must fill his or her billing and shipping address. By doing so this will allow the system to provide shipping quotes calculated based on specific rules configured in the backend.

Customer address suggester validates user address input. This is a component that needs to be configured specifically for react.

Here are 2 examples on how to set up the address in reactjs

https://medium.com/@hamzaqaisrani/using-the-google-maps-places-autocomplete-javascript-api-in-a-react-project-5742bab4abc9

https://medium.com/better-programming/the-best-practice-with-google-place-autocomplete-api-on-react-939211e8b4ce

This requires an api key to be stored in env properties file and should not be committed to github. The key will be sent through a private slack channel.

The customer will fill his billing and shipping address. Address suggester is a necessary step in checkout flow. Address suggestions should be parsed in order to fill address fields individually including postal code which is essential for getting an accurate shipping quote. Postal code input and change must triggers an api for getting a shipping quote.

** When the checkout page is displayed there is an immediate call to get possible known shipping quotes.

Get shipping quote (using customer country and postal code)

Request

```
curl -X POST "http://localhost:8080/api/v1/cart/2a0fdcc62e2a491481f3e968e1f0d386/shipping?store=DEFAULT" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"countryCode\": \"CA\", \"postalCode\": \"j4b8j9\"}"
```

Response

```
{
        "shipping": 140,

        "handling": null,

        "shippingModule": "customQuotesRules",

        "shippingOption": "Canada",

        "freeShipping": false,

        "taxOnShipping": false,

        "shippingQuote": true,

        "shippingText": "US$140.00",

        "handlingText": "",

        "delivery": {

                "postalCode": "j4b8j9",

                "countryCode": null,

                "firstName": null,

                "lastName": null,

                "bilstateOther": null,

                "company": null,

                "phone": null,

                "address": null,

                "city": null,

                "stateProvince": null,

                "billingAddress": false,

                "latitude": null,

                "longitude": null,

                "zone": null,

                "country": "CA",

                "countryName": null,

                "provinceName": null
```

```
        },

        "selectedShippingOption": null,

        "shippingOptions": [{

                        "optionPrice": 140,

                        "shippingQuoteOptionId": 9850,

                        "optionName": "Shipping by Importa",

                        "optionCode": "customQuotesRules",

                        "optionDeliveryDate": null,

                        "optionShippingDate": null,

                        "optionPriceText": "US$140.00",

                        "optionId": "customQuotesRules",

                        "description": "Shipping by Importa",

                        "shippingModuleCode": "customQuotesRules",

                        "note": "",

                        "estimatedNumberOfDays": null

                },

                {

                        "optionPrice": 0,

                        "shippingQuoteOptionId": 9851,

                        "optionName": "Store pick up",

                        "optionCode": "storePickUp",

                        "optionDeliveryDate": null,

                        "optionShippingDate": null,

                        "optionPriceText": "US$0.00",

                        "optionId": "storePickUp_null",

                        "description": "Store pick up",

                        "shippingModuleCode": "storePickUp",

                "note": "This option let you reserve you order items through the online system and pick up your
order by yourself at the store. This option is also offered when no other shipping option is available for your region.",

                        "estimatedNumberOfDays": null

                }

        ],

        "quoteInformations": {}

}
```

Shipping quotes are presented to the customer like the following. Order of display matches shippingOptions response array.

When the customer clicks on a shipping option the order summary has to be refreshed taking into account the shipping option selected.

Order Total recalculation using a quote id.

Request

curl -X GET "http://localhost:8080/api/v1/cart/2a0fdcc62e2a491481f3e968e1f0d386/total?quote=9850&store=DEFAULT" -H "accept: application/json"

Response

```
{

        "subTotal": "US$279.98",

        "total": "US$419.98",

        "taxTotal": null,

        "totals": [{

                        "id": null,

                        "title": "Subtotal",

                        "text": null,
```

```
            "code": "order.total.subtotal",

            "order": 5,

            "module": "subtotal",

            "value": 279.98,

            "total": "US$279.98",

            "discounted": false

        },

        {

            "id": null,

            "title": "Shipping",

            "text": null,

            "code": "order.total.shipping",

            "order": 100,

            "module": "shipping",

            "value": 140,

            "total": "US$140.00",

            "discounted": false

        },

        {

            "id": null,

            "title": "Total",

            "text": null,

            "code": "order.total.total",

            "order": 500,

            "module": "total",

            "value": 419.98,

            "total": "US$419.98",

            "discounted": false

        }

    ]

}
```
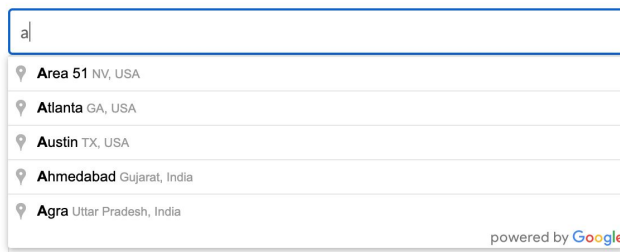
Capturing credit card information

Credit card information is managed with a credit card component which provides PCI credit card handling often called hosted tokenization. Hosted tokenization is an embedded component that will validate the credit card and returns in exchange a token that can be used further to complete the transaction.

Once the token is obtained following a successful credit card information then the checkout process can be completed.

<u>FINAL CHECKOUT STEP (Anonymous)</u>

Request

curl -X POST "http://localhost:8080/api/v1/cart/2a0fdcc62e2a491481f3e968e1f0d386/checkout" -H "accept: application/json" -H "Content-Type: application/json" -d "{\t\"shippingQuote\": 9850,\t\"currency\": \"USD\",\t\"payment\": {\t\t\"paymentType\": \"CREDITCARD\",\t\t\"transactionType\": \"CAPTURE\",\t\t\"paymentModule\": \"stripe\",\t\t\"paymentToken\": \"TOKEN-RECEIVED-FROM-PAYMENT\",\t\t\"amount\": \"419.98\"\t},\t\"customer\": {\t\t\"emailAddress\": \"test@test.com\",\t\t\"billing\": {\t\t\t\"address\": \"352 Du Languedoc\",\t\t\t\"city\": \"Boucherville\",\t\t\t\"postalCode\": \"J4B8J8\",\t\t\t\"country\": \"CA\",\t\t\t\"zone\": \"QC\",\t\t\t\"firstName\": \"John\",\t\t\t\"lastName\": \"Doe\"\t\t}\t}}"

Payload in details

```
{
        "shippingQuote": 9850,
        "currency": "USD",
        "payment": {
                "paymentType": "CREDITCARD",
                "transactionType": "CAPTURE",
                "paymentModule": "stripe",
                "paymentToken": "tok_us",
                "amount": "419.98"
        },
        "customer": {
                "emailAddress": "test@test.com",
                "billing": {
                        "address": "352 Du Languedoc",
                        "city": "Boucherville",
                        "postalCode": "J4B8J8",
                        "country": "CA",
                        "zone": "QC",
                        "firstName": "John",
                        "lastName": "Doe"
                }
        }
}
```

Response

```
{
        "id": 2552,
        "billing": {
                "postalCode": "J4B8J8",
                "countryCode": null,
                "firstName": "John",
                "lastName": "Doe",
                "bilstateOther": null,
                "company": null,
                "phone": null,
                "address": "352 Du Languedoc",
                "city": "Boucherville",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "QC",
                "country": "CA"
        },
        "delivery": {
                "postalCode": "J4B8J8",
                "countryCode": null,
                "firstName": "John",
                "lastName": "Doe",
                "bilstateOther": null,
                "company": null,
                "phone": null,
                "address": "352 Du Languedoc",
                "city": "Boucherville",
                "stateProvince": null,
                "billingAddress": false,
                "latitude": null,
                "longitude": null,
                "zone": "QC",
                "country": "CA"
        },
        "shipping": "Store pick up",
        "payment": "CREDITCARD",
        "total": {
                "totals": [{
                                "id": 2656,
                                "title": "Subtotal",
                                "text": null,
                                "code": "order.total.subtotal",
                                "order": 5,
                                "module": "subtotal",
                                "value": 59.99,
                                "total": "US$59.99",
                                "discounted": false
```

```
                    },
                    {
                            "id": 2657,
                            "title": "Shipping",
                            "text": null,
                            "code": "order.total.shipping",
                            "order": 100,
                            "module": "shipping",
                            "value": 0,
                            "total": "US$0.00",
                            "discounted": false
                    },
                    {
                            "id": 2658,
                            "title": "Total",
                            "text": null,
                            "code": "order.total.total",
                            "order": 500,
                            "module": "total",
                            "value": 59.99,
                            "total": "US$59.99",
                            "discounted": false
                    }
            ],
            "grandTotal": "US$59.99"
    },
    "products": [{
            "id": 2552,
            "orderedQuantity": 1,
            "product": {
                    "id": 1,
                    "price": 59.99,
                    "quantity": 498,
                    "sku": "SKU123",
                    "productShipeable": true,
                    "preOrder": false,
                    "productVirtual": false,
                    "quantityOrderMaximum": 5,
                    "quantityOrderMinimum": 1,
                    "productIsFree": false,
                    "available": true,
                    "visible": true,
                    "productSpecifications": {
                            "height": 18,
                            "weight": 18,
                            "length": 19,
                            "width": 18,
                            "model": null,
                            "manufacturer": null,
                            "dimensionUnitOfMeasure": null,
                            "weightUnitOfMeasure": null
                    },
                    "rating": 0,
                    "ratingCount": 0,
                    "sortOrder": 250,
                    "dateAvailable": "2019-05-26",
                    "refSku": "",
```

                        "condition": null,
                        "creationDate": "2019-05-27",
                        "rentalDuration": 0,
                        "rentalPeriod": 0,
                        "rentalStatus": null,
                        "description": {
                                "id": 850,
                                "language": "en",
                                "name": "Thai cussion",
                                "description": "<p>\r\n\tImportation from Thailand. This Thai vintage style cussion
brings extotism to your living room.</p>\r\n",
                                "friendlyUrl": "thai-cussion",
                                "keyWords": "",
                                "highlights": "",
                                "metaDescription": "",
                                "title": "Importa | Cussion"
                        },
                        "productPrice": {
                                "id": 1,
                                "originalPrice": "US$59.99",
                                "finalPrice": "US$59.99",
                                "discounted": false,
                                "description": {
                                        "id": 800,
                                        "language": "en",
                                        "name": null,
                                        "description": null,
                                        "friendlyUrl": null,
                                        "keyWords": null,
                                        "highlights": null,
                                        "metaDescription": null,
                                        "title": null,
                                        "priceAppender": null
                                }
                        },
                        "finalPrice": "US$59.99",
                        "originalPrice": "US$59.99",
                        "discounted": false,
                        "image": {
                                "id": 701,
                                "imageName": "63.jpg",
                                "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/SKU123/SMALL/63.jpg",
                                "externalUrl": null,
                                "videoUrl": null,
                                "imageType": 0,
                                "defaultImage": true
                        },
                        "images": [{
                                "id": 701,
                                "imageName": "63.jpg",
                                "imageUrl":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/products/DEFAULT/SKU123/SMALL/63.jpg",
                                "externalUrl": null,
                                "videoUrl": null,
                                "imageType": 0,
                                "defaultImage": true

```
            }],
            "manufacturer": {
                    "id": 1,
                    "code": "DEFAULT",
                    "order": 0,
                    "description": {
                            "id": 0,
                            "language": null,
                            "name": "DEFAULT",
                            "description": null,
                            "friendlyUrl": null,
                            "keyWords": null,
                            "highlights": null,
                            "metaDescription": null,
                            "title": null
                    }
            },
            "attributes": null,
            "options": [{
                            "id": 1,
                            "code": "COLOR",
                            "type": "radio",
                            "readOnly": false,
                            "name": "Color",
                            "lang": "en",
                            "optionValues": [{
                                            "id": 458,
                                            "code": "charcoal",
                                            "defaultValue": false,
                                            "sortOrder": 30,
                                            "image":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/charcoal-100.jpg",
                                            "order": 0,
                                            "price": "US$6.00",
                                            "description": {
                                                    "id": 0,
                                                    "language": "en",
                                                    "name": "Charcoal",
                                                    "description": null,
                                                    "friendlyUrl": null,
                                                    "keyWords": null,
                                                    "highlights": null,
                                                    "metaDescription": null,
                                                    "title": null
                                            }
                                    },
                                    {
                                            "id": 459,
                                            "code": "light-grey",
                                            "defaultValue": false,
                                            "sortOrder": 5,
                                            "image":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/grey-100.jpg",
                                            "order": 0,
                                            "price": null,
                                            "description": {
                                                    "id": 0,
```

```json
                                                "language": "en",
                                                "name": "Light Grey",
                                                "description": null,
                                                "friendlyUrl": null,
                                                "keyWords": null,
                                                "highlights": null,
                                                "metaDescription": null,
                                                "title": null
                                        }
                                },
                                {
                                        "id": 454,
                                        "code": "white",
                                        "defaultValue": true,
                                        "sortOrder": 0,
                                        "image":
"https://s3.ca-central-1.amazonaws.com/shopizer-lightsail/files/DEFAULT/PROPERTY/white-100.jpg",
                                        "order": 0,
                                        "price": null,
                                        "description": {
                                                "id": 0,
                                                "language": "en",
                                                "name": "White",
                                                "description": null,
                                                "friendlyUrl": null,
                                                "keyWords": null,
                                                "highlights": null,
                                                "metaDescription": null,
                                                "title": null
                                        }
                                }
                        ]
                },
                {
                        "id": 2,
                        "code": "SIZE",
                        "type": "select",
                        "readOnly": false,
                        "name": "Size",
                        "lang": "en",
                        "optionValues": [{
                                        "id": 452,
                                        "code": "MEDIUM",
                                        "defaultValue": false,
                                        "sortOrder": 0,
                                        "image": null,
                                        "order": 0,
                                        "price": null,
                                        "description": {
                                                "id": 0,
                                                "language": "en",
                                                "name": "Medium",
                                                "description": null,
                                                "friendlyUrl": null,
                                                "keyWords": null,
                                                "highlights": null,
                                                "metaDescription": null,
```

```json
                                        "title": null
                                }
                        },
                        {
                                "id": 453,
                                "code": "LARGE",
                                "defaultValue": false,
                                "sortOrder": 2,
                                "image": null,
                                "order": 0,
                                "price": "US$5.00",
                                "description": {
                                        "id": 0,
                                        "language": "en",
                                        "name": "Large",
                                        "description": null,
                                        "friendlyUrl": null,
                                        "keyWords": null,
                                        "highlights": null,
                                        "metaDescription": null,
                                        "title": null
                                }
                        }
                ]
        },
        {
                "id": 650,
                "code": "thickness",
                "type": "select",
                "readOnly": false,
                "name": "Thickness",
                "lang": "en",
                "optionValues": [{
                        "id": 451,
                        "code": "thick",
                        "defaultValue": false,
                        "sortOrder": 10,
                        "image": null,
                        "order": 0,
                        "price": "US$5.00",
                        "description": {
                                "id": 0,
                                "language": "en",
                                "name": "Thick",
                                "description": null,
                                "friendlyUrl": null,
                                "keyWords": null,
                                "highlights": null,
                                "metaDescription": null,
                                "title": null
                        }
                }]
        }
],
"categories": [{
        "id": 53,
        "code": "decorations",
```

```
                                "sortOrder": 50,
                                "visible": true,
                                "featured": false,
                                "lineage": "/53/",
                                "depth": 0,
                                "parent": null,
                                "description": {
                                        "id": 53,
                                        "language": null,
                                        "name": "Decorations",
                                        "description": "\r\n\tIndoor and outdoor decorations\r\n",
                                        "friendlyUrl": "decorations",
                                        "keyWords": "",
                                        "highlights": "",
                                        "metaDescription": "",
                                        "title": "Importa - Décorations"
                                },
                                "productCount": 0,
                                "store": null,
                                "children": []
                        }],
                        "type": {
                                "id": 1,
                                "code": "GENERAL",
                                "name": "GENERAL",
                                "allowAddToCart": false
                        },
                        "canBePurchased": true,
                        "owner": null
                },
                "productName": "Thai cushion",
                "price": "US$59.99",
                "subTotal": "US$59.99",
                "attributes": [],
                "sku": "SKU123",
                "image": "63.jpg"
        }]
}
```

When an order is completed and a successful order response is returned from checkout api then the app disastrous shopping cart cookie so it does not appear anymore in the application shopping cart.

Alternate flow when user wants to create an account

Payload in details

```
{
        "shippingQuote": 9850,
        "currency": "USD",
        "payment": {
                "paymentType": "CREDITCARD",
                "transactionType": "CAPTURE",
                "paymentModule": "stripe",
                "paymentToken": "tok_us",
```

```
                    "amount": "419.98"
            },
            "customer": {
                    "emailAddress": "test@test.com",
                    "password":"Password001!",
                    "repeatPassword":"Password001!",
                    "billing": {
                            "address": "352 Du Languedoc",
                            "city": "Boucherville",
                            "postalCode": "J4B8J8",
                            "country": "CA",
                            "zone": "QC",
                            "firstName": "John",
                            "lastName": "Doe"
                    }
            }
}
```

Customer creation during checkout
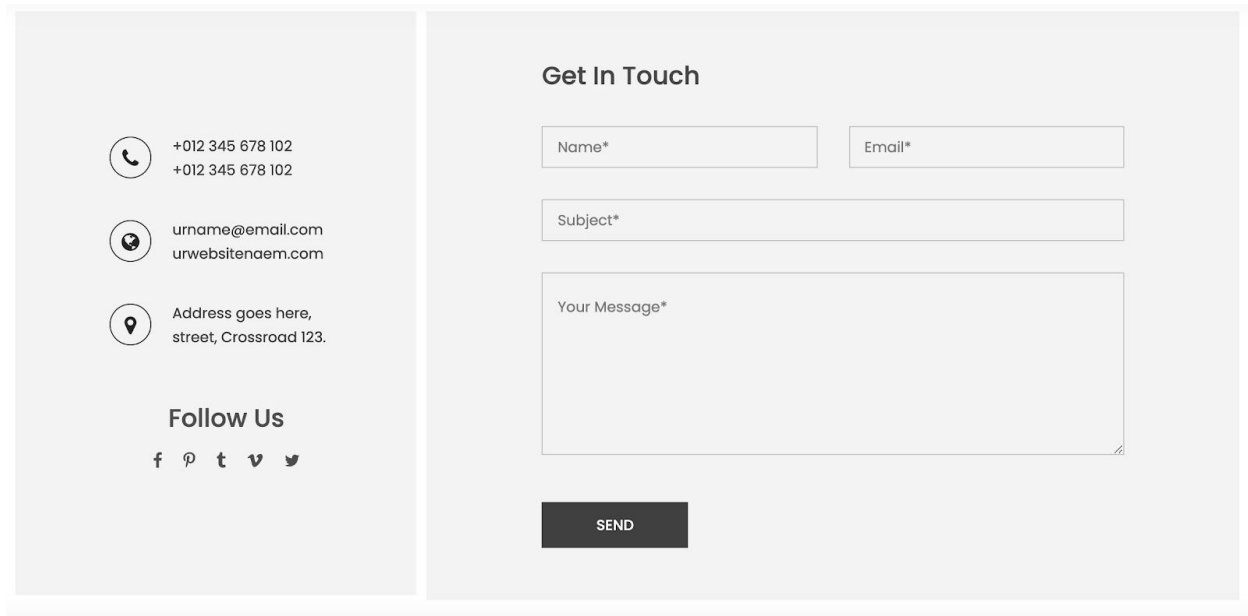
It is possible to create a new customer during checkout. This action requires those fields:

Customer billing address
Password
Repeat password

Customer is signed in flow

TBC

Contact

Store phone number, email address and address origin from MerchantStore

"email": "info@test.com",
"phone": "555-548-7005",
"address": {

      "stateProvince": "QC",

      "country": "CA",

      "address": "1435 rue Tees",

      "postalCode": "H6R 1X6",

      "city": "St-Laurent",

      "active": true

}

Get in touch form

```
curl -X POST "http://localhost:8080/api/v1/contac?store=DEFAULTt" -H "accept: application/json" -H "Content-Type:
application/json" -d "{ \"comment\": \"test\", \"email\": \"test@test.com\", \"name\": \"Test Name\", \"subject\": \"Contact
subject\"}"
```