

TD 12 : Les ressources API

Objectifs :

- Rendre notre API robuste
- Se rapprocher du model de Richardson niveau 3

Ressources :

- <https://laravel.com/docs/9.x/eloquent-resources>

Grace aux ressource API faire en sorte que notre api nous retourne les informations avec les relations

Pour les collections, nous ajoutons :

- Une clef links avec les liens vers l'action create (si elle existe)
- La pagination (modification dans le repository)

Pour les ressources, nous ajoutons :

- Une clef links avec les liens vers l'action de modification (si elle existe)
- Une clef meta avec lien vers l'action index et create (si elles existent)

Documentation de l'api attendu à coller dans le site <https://editor.swagger.io/> :

openapi: 3.0.2

info:

title: E-Commerce

version: 1.0.0

servers:

- url: http://localhost:8000

paths:

/api/products:

get:

tags:

- Product

summary: Liste des produits

parameters:

- name: page

in: query

description: Page

required: false

schema:

type: string

responses:

'200':

description: Successful response

content:

application/json:

```

    schema:
      type: object
      properties:
        data:
          type: array
          items:
            $ref: '#/components/schemas/Product'
        links:
          $ref: '#/components/schemas/ProductLinks'
        meta:
          $ref: '#/components/schemas/ProductMeta'
  post:
    tags:
      - Product
    summary: Créer un nouveau produit
    requestBody:
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/StoreProduct'
    responses:
      '201':
        description: Successful response
/api/products/{product}:
  get:
    tags:
      - Product
    summary: Consulter un produit
    parameters:
      - name: product
        in: path
        description: Slug du produit
        required: true
        schema:
          type: string
    responses:
      '200':
        description: Successful response
        content:
          application/json:
            schema:
              type: object
              properties:
                data:
                  $ref: '#/components/schemas/Product'
                meta:
                  type: object

```

```
    properties:
      index:
        default: http://127.0.0.1:8000/api/products
        type: string
      create:
        default: api_product_create
        type: string
components:
  schemas:
    ProductSize:
      type: object
      properties:
        id:
          type: integer
        code:
          type: string
        libelle:
          type: string
        stock:
          type: integer
    StoreProduct:
      type: object
      properties:
        title:
          type: string
        description:
          type: string
        price_in_cents:
          type: integer
        category:
          type: string
        sizes:
          type: array
          items:
            type: string
    ProductMeta:
      type: object
      properties:
        current_page:
          default: 1
          type: integer
        from:
          default: 1
          type: integer
        last_page:
          default: 1
          type: integer
```

links:
 type: array
 items:
 type: object
 properties:
 url:
 type: string
 label:
 type: string
 active:
 type: string
 path:
 default: http://127.0.0.1:8000/api/products
 type: string
 per_page:
 default: 15
 type: integer
 to:
 default: 15
 type: integer
 total:
 default: 15
 type: integer
ProductLinks:
 type: object
 properties:
 self:
 default: http://127.0.0.1:8000/api/products?page=3
 type: string
 create:
 default: http://127.0.0.1:8000/api/products
 type: string
 first:
 default: http://127.0.0.1:8000/api/products?page=1
 type: string
 last:
 default: http://127.0.0.1:8000/api/products?page=1
 type: string
 prev:
 default: http://127.0.0.1:8000/api/products?page=2
 type: string
 next:
 default: http://127.0.0.1:8000/api/products?page=4
 type: string
Product:
 type: object
 properties:

```
id:
  default: 0
  type: integer
title:
  type: string
slug:
  type: string
category:
  $ref: '#/components/schemas/Category'
sizes:
  type: array
  items:
    $ref: '#/components/schemas/ProductSize'
description:
  type: string
price_in_cents:
  default: 0
  type: integer
created_at:
  format: date-time
  type: string
updated_at:
  format: date-time
  type: string
links:
  type: array
  items:
    type: object
    properties:
      update:
        default: http://127.0.0.1:8000/api/products/lorem-ipsum
        type: string
Category:
  type: object
  properties:
    id:
      default: 0
      type: integer
    libelle:
      type: string
    slug:
      type: string
    created_at:
      format: date-time
      type: string
    updated_at:
      format: date-time
```

type: string

tags:

- name: Product

description: Gestion des produits