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Les services

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XWIKI NATIS

Compétence demandée :
Savoir mettre en place des services

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Qu’est-ce qu’une architecture ?

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L’architecture MVC (Modèle Vue Contrôleur) est un modèle de conception très utilisé lors de développement de logiciels. C’est une façon d’organiser et structurer le code des interfaces graphiques d’un programme.

L’objectif du modèle MVC est de séparer les aspects suivants :

- Données (Modèle)
- Présentation (Vue)
- Requête et traitement (Contrôleur)

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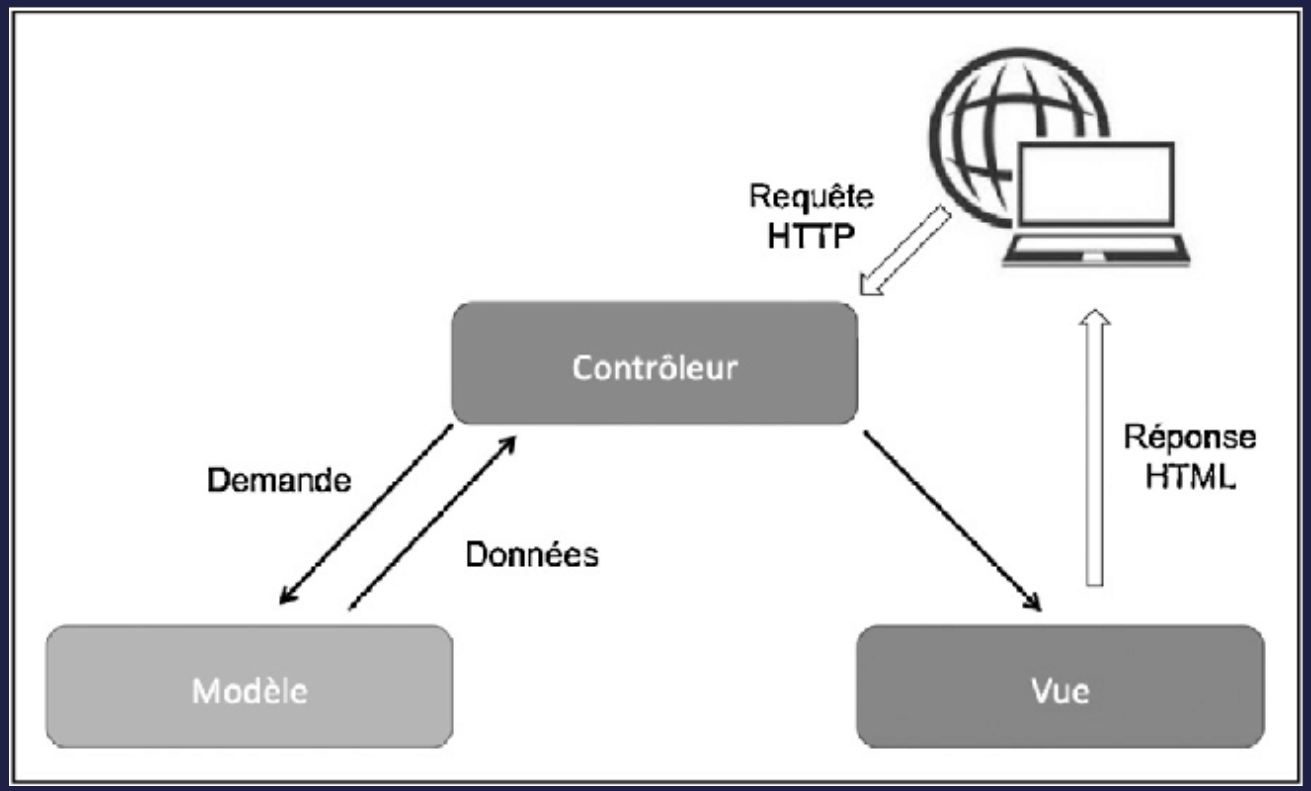
Architecture MVC



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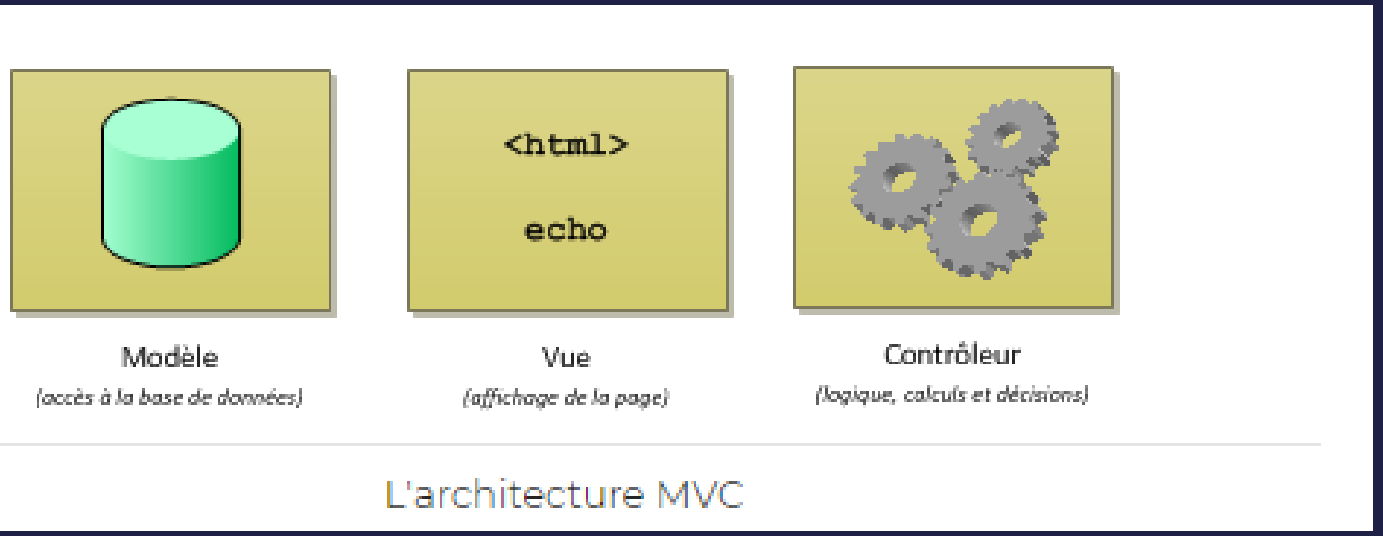
Architecture MVC



L'architecture MVC

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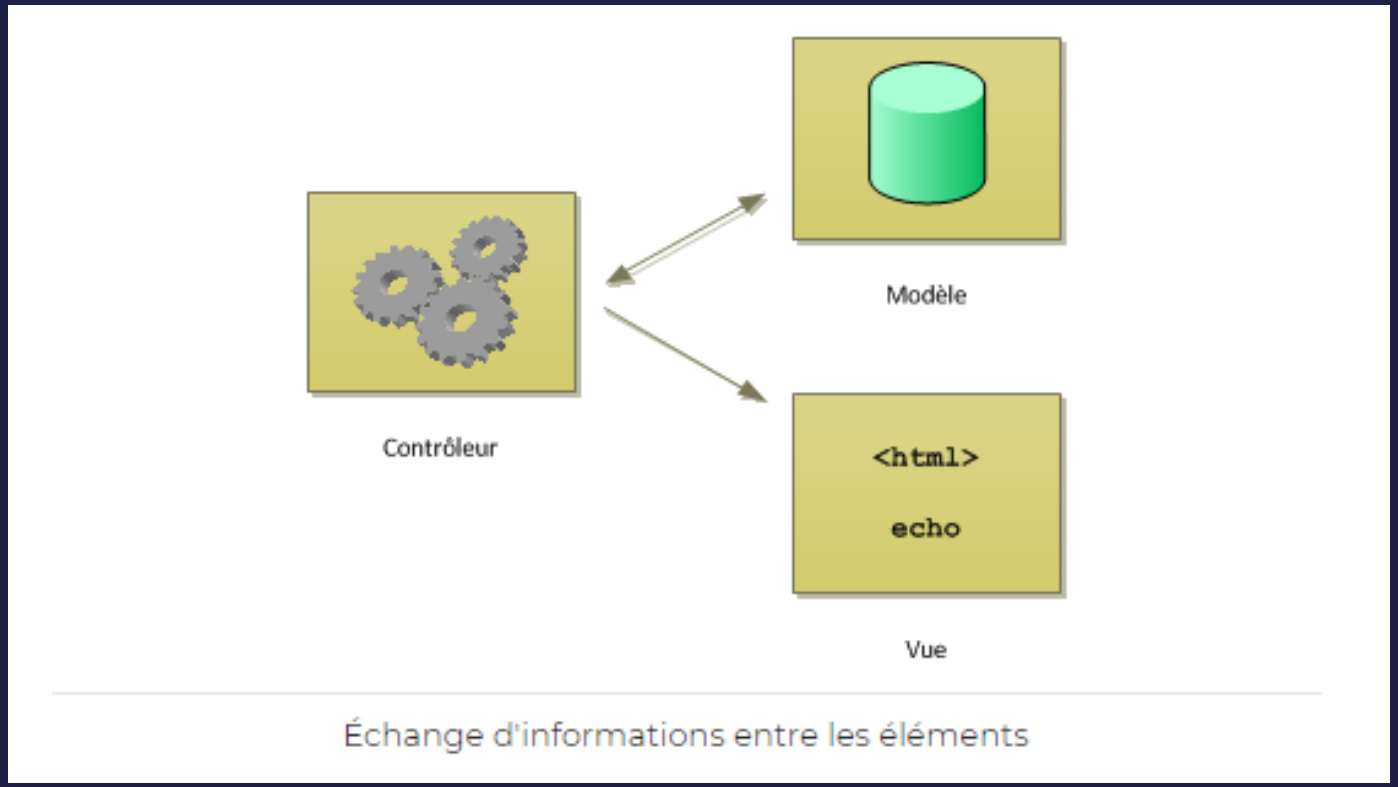
Architecture MVC



Échange d'informations entre les éléments

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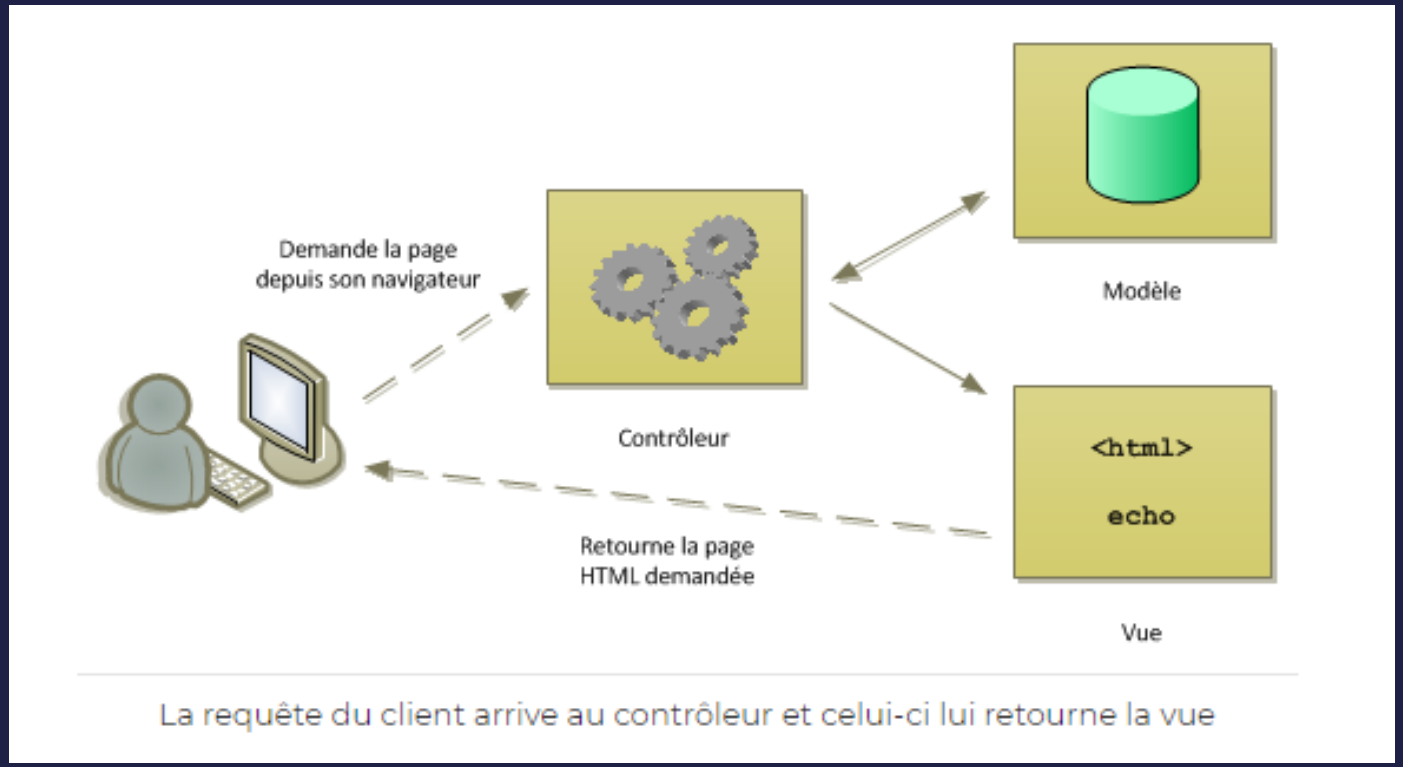
Architecture MVC



La requête du client arrive au contrôleur et celui-ci lui retourne la vue

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MVC :

Model = Entités

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MVC :

Model = Entités

View = Code pour le visuel

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MVC :

Model = Entités

View = Code pour le visuel

Controller = Le reste

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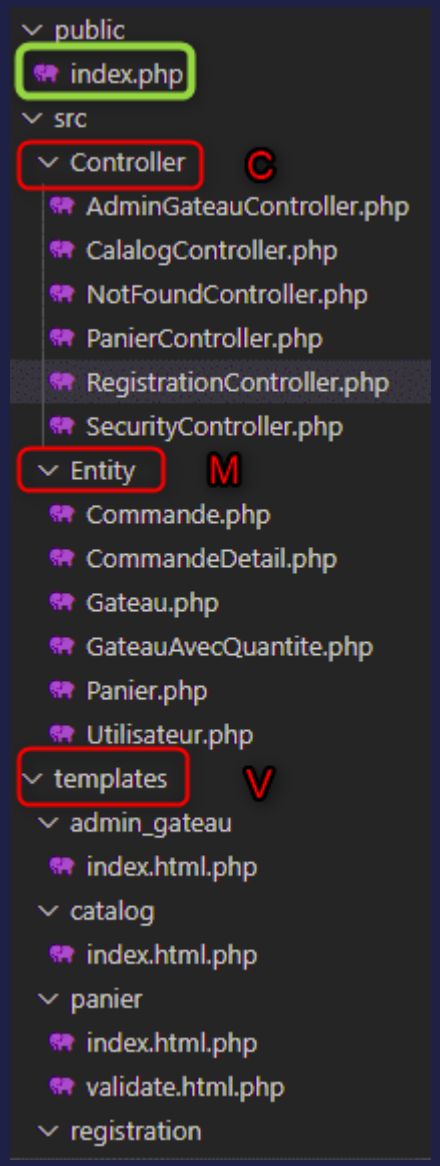

Architecture MVC

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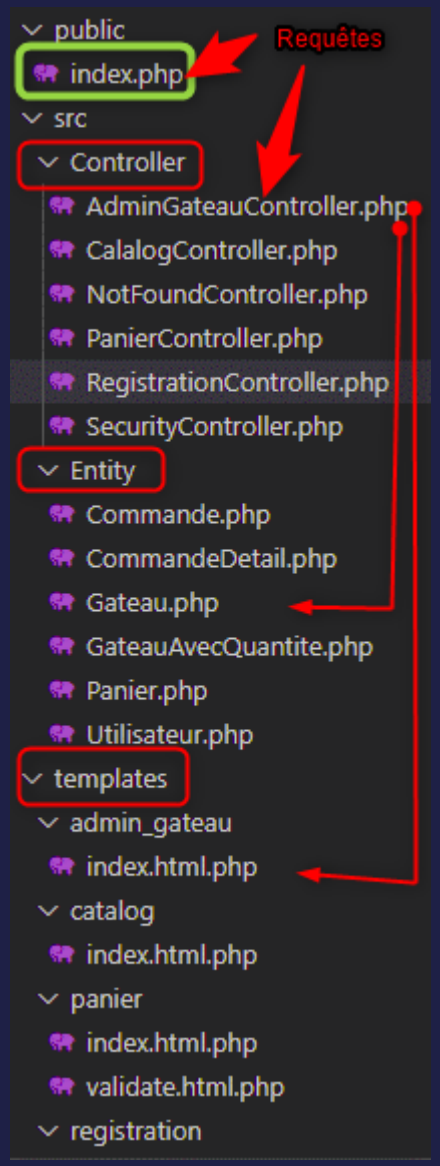
Architecture MVC



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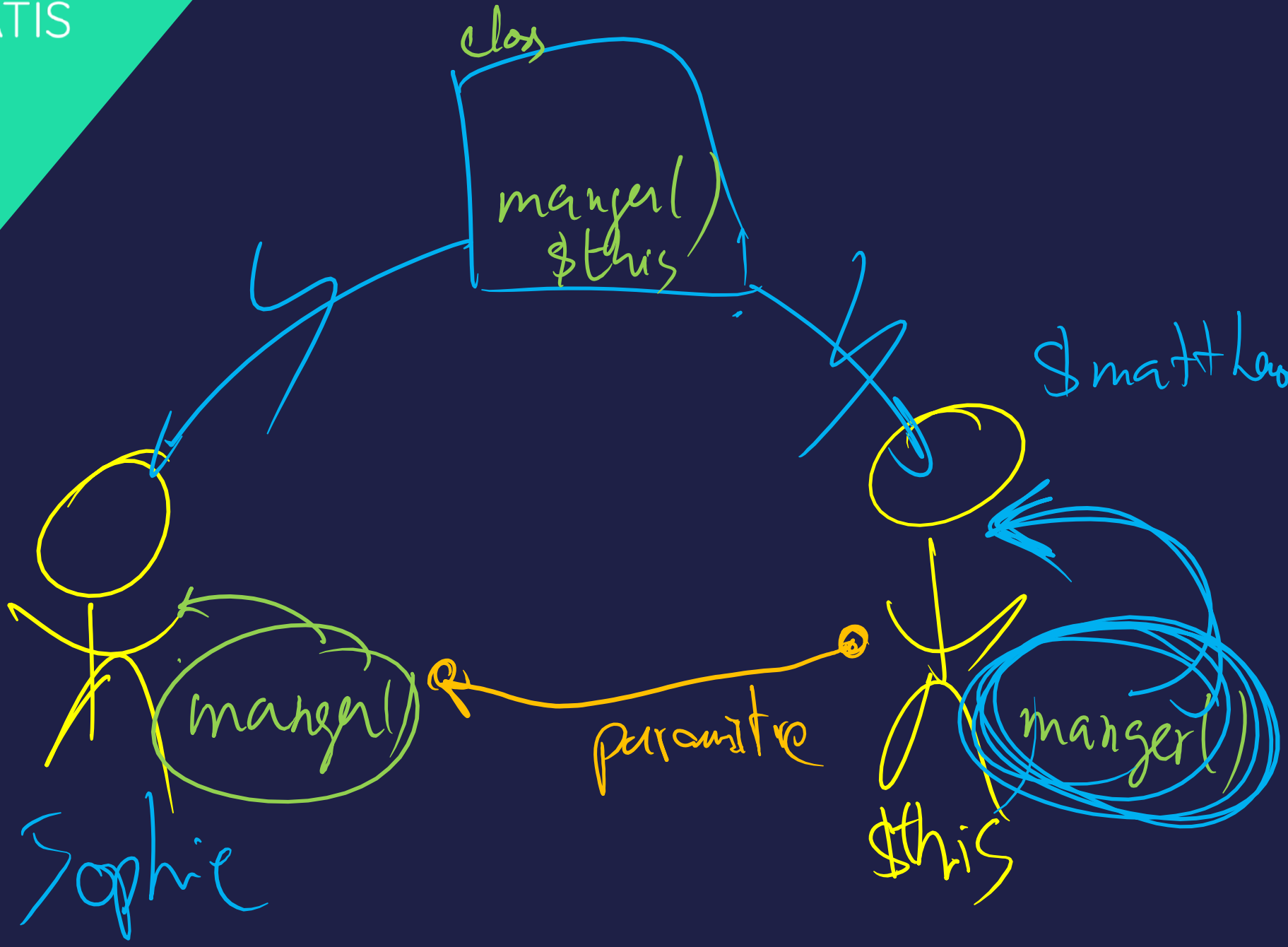
class
manger()
$this
$matt
manger()
Sophie
parametre
manger()
$this

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Les controllers peuvent devenir compliqué !

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Les controllers peuvent devenir compliqué !

Isolons la plue-value des controllers dans des services !

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UN SERVICE ?

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maintenance

1. Un bout de code utilisé de manière répétée dans plusieurs controllers
   - ↳ une plus-value -> service
2. Un bout de code qui a une complexité qui va peut-être évoluer
   - ↳ une plus-value -> service

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La couche de service est un modèle architectural, appliqué dans le paradigme de conception orientée service

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Elle vise à rassemble la plus value de l'application en services. Cela permet de faciliter la complexité applicative en simplifiant les controlleurs.

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#1

Créer un site internet un système d'administration pour créer des produits en base de données (sans l'ajout d'images)

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```
symfony new boutique –full
```

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```
symfony server:start
```

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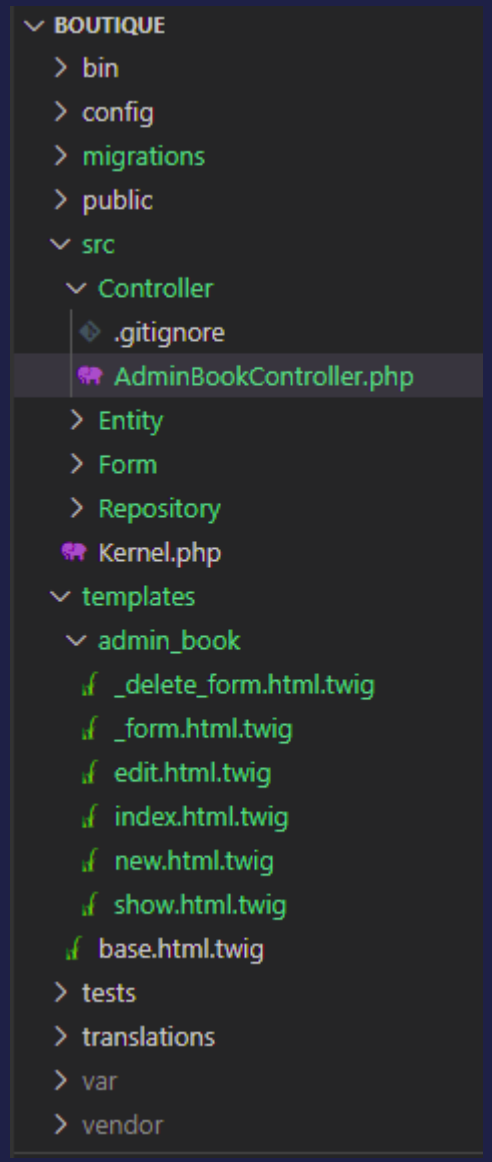


```
php bin/console make:entity Book
```

```
php bin/console make:crud Book
```

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UN SERVICE ?

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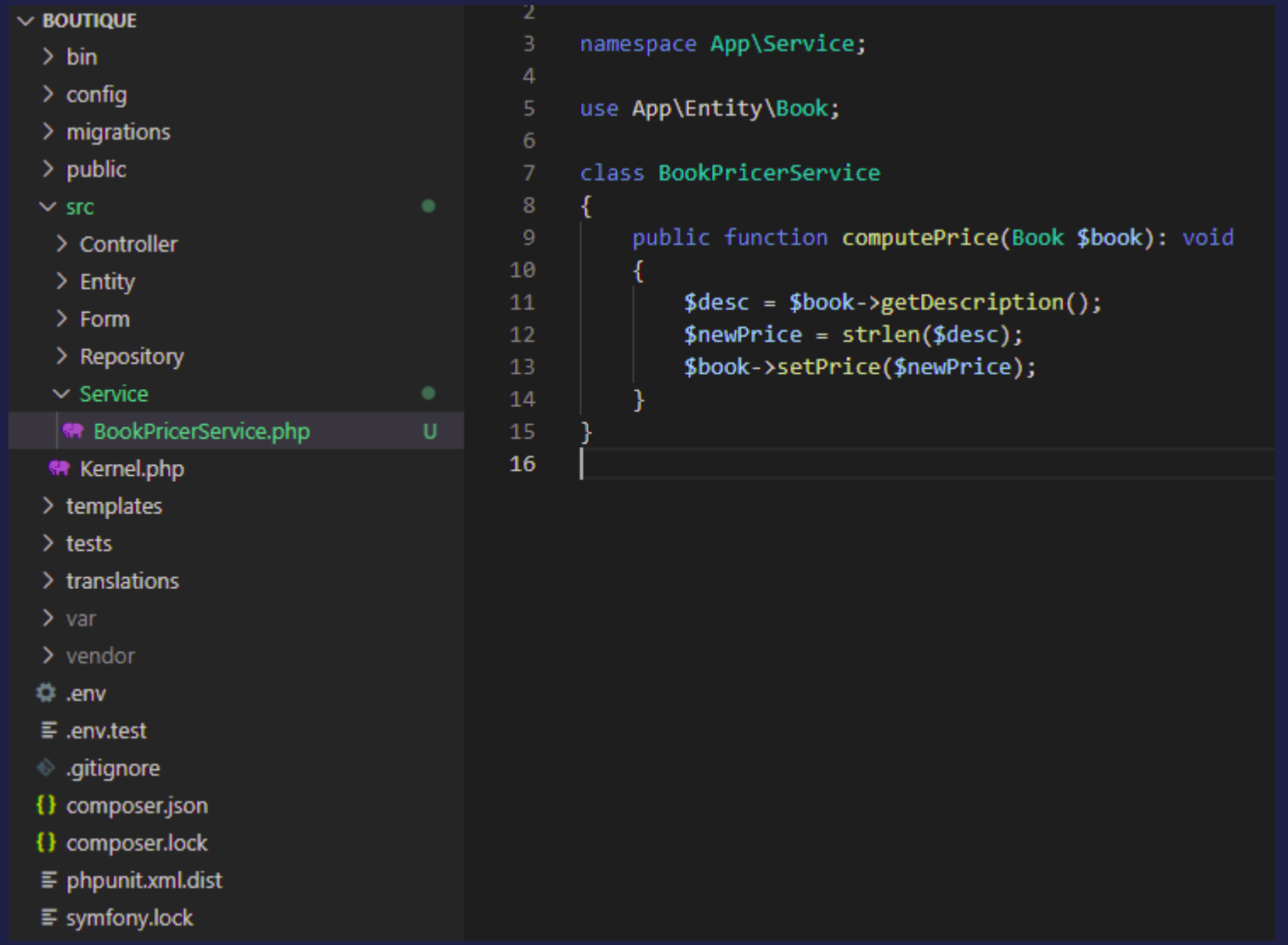
BOUTIQUE
bin
config
migrations
public
src
Controller
Entity
Form
Repository
Service
BookPricerService.php
U
Kernel.php
templates
tests
translations
var
vendor
.env
.env.test
.gitignore
composer.json
composer.lock
phpunit.xml.dist
symfony.lock
namespace App\Service;
use App\Entity\Book;
class BookPricerService
{
public function computePrice(Book $book): void
{
$desc = $book->getDescription();
$newPrice = strlen($desc);
$book->setPrice($newPrice);
}
}

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1. Service de panier
2. Service de paiement
3. Service d’upload de fichiers

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PAGE CATALOGUE

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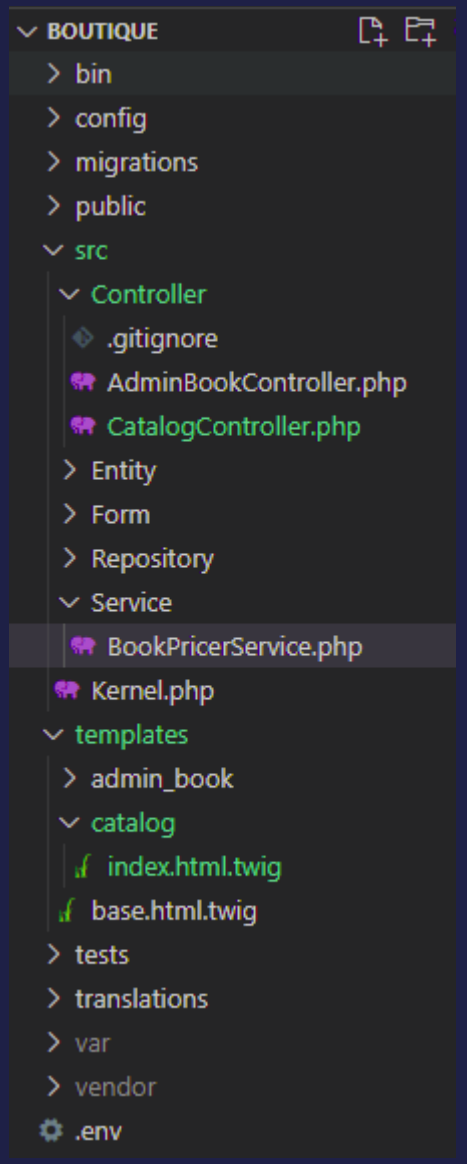


```
php bin/console make:crud Book
```

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PAGE PANIER

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SERVICE PANIER

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```php
public function get()
{
    return $this->sessionInterface->get('cart', [
        'elements' => [],
        'total' => 0.0
    ]);
}
```

```php
public function clear()
{
    $this->sessionInterface->remove('cart');
}
```

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```php
public function add(Book $book)
{
    $cart = $this->get();
    $bookId = $book->getId();

    if (!isset($cart['elements'][$bookId]))
    {
        $cart['elements'][$bookId] = [
            'book' => $book,
            'quantity' => 0
        ];
    }

    $cart['total'] = $cart['total'] + $book->getPrice();
    $cart['elements'][$bookId]['quantity'] = $cart['elements'][$bookId]['quantity'] + 1;

    $this->sessionInterface->set('cart', $cart);
}
```

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```php
public function remove(Book $book)
{
    $cart = $this->get();
    $bookId = $book->getId();

    if (!isset($cart['elements'][$bookId]))
    {
        return;
    }

    $cart['total'] = $cart['total'] - $book->getPrice();
    $cart['elements'][$bookId]['quantity'] = $cart['elements'][$bookId]['quantity'] - 1;

    if ($cart['elements'][$bookId]['quantity'] <= 0)
    {
        unset($cart['elements'][$bookId]);
    }

    $this->sessionInterface->set('cart', $cart);
}
```

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PAGE PAIEMENT

XONATIS

XONATIS

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SERVICE PAIEMENT

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```php
public function __construct(CartService $cartService)
{
    $this->cartService = $cartService;
    $this->stripe = new StripeClient('sk_test_[redacted]');
}
```

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```php
public function create(): string
{
    $cart = $this->cartService->get();
    $items = [];
    foreach ($cart['elements'] as $bookId => $element)
    {
        $items[] = [
            'amount' => $element['book']->getPrice() * 100,
            'quantity' => $element['quantity'],
            'currency' => 'eur',
            'name' => $element['book']->getTitle()
        ];
    }
    $protocol = $_SERVER['HTTPS'] ? 'https' : 'http';
    $successUrl = $protocol . '://' . $_SERVER['SERVER_NAME'] . '/payment/success/{CHECKOUT_SESSION_ID}';
    $cancelUrl = $protocol . '://' . $_SERVER['SERVER_NAME'] . '/payment/failure/{CHECKOUT_SESSION_ID}';

    $session = $this->stripe->checkout->sessions->create([
        'success_url' => $successUrl ,
        'cancel_url' => $cancelUrl,
        'payment_method_types' => [
            'card'
        ],
        'mode' => 'payment',
        'line_items' => $items
    ]);
    return $session->id;
}
```

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SERVICE UPLOAD

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```php
public function __construct($targetDirectory, SluggerInterface $slugger)
{
    $this->targetDirectory = $targetDirectory;
    $this->slugger = $slugger;
}

public function upload(UploadedFile $file)
{
    $originalFilename = pathinfo($file->getClientOriginalName(), PATHINFO_FILENAME);
    $safeFilename = $this->slugger->slug($originalFilename);
    $fileName = $safeFilename.'-'.uniqid().'.'.$file->guessExtension();

    try {
        $file->move($this->getTargetDirectory(), $fileName);
    } catch (FileException $e) {
        // ... handle exception if something happens during file upload
    }

    return $fileName;
}

public function getTargetDirectory()
{
    return $this->targetDirectory;
}
```

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```php
$builder
    ->add('title')
    ->add('price')
    ->add('description')
    ->add('category')
    ->add('image', FileType::class, [
        'mapped' => false
    ])
;
```

```php
if ($form->isSubmitted() && $form->isValid()) {
    $imageFile = $form->get('image')->getData();
    if ($imageFile) {
        $imageFilename = $fileUploader->upload($imageFile);
        $book->setImageFilename($imageFilename);
    }
```

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