

Présentation – English Learner

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Introduction

Intérêt pour l'apprentissage des langues...
... et le développement web !
L'importance de l'anglais

Présentation du projet

Base de vocabulaire en anglais
Transcription phonétique pour les francophones
Aspect communautaire et contributions
Rôles utilisateurs
Outil de révision

An aerial photograph of the New York City skyline during the 'golden hour' of sunset. The sun is low on the horizon to the right, casting a warm, orange glow over the city. The Empire State Building is a prominent feature in the center, with its spire reaching towards the sky. Other skyscrapers are visible, including the United Nations Secretariat Building and the 111 West 57th Street. The Hudson River is visible on the left, and the East River on the right. The overall atmosphere is serene and majestic.

I – Le cahier des charges

Cahier des charges

1) Les règles de base

Ergonomie (UX)
Responsive
Multi-utilisateurs
Messages flash
Norme RGPD
Sécurité

Cahier des charges

2) L'accueil

Nombre de thèmes

Nombre d'utilisateurs

Nombre d'expressions

Cahier des charges

3) Les utilisateurs

Espace membre

Liste (Communauté)

Édition et suppression

Contributions

Rôles

Cahier des charges

4) Les thèmes

Listes (vocabulaire)

Ajout, édition et suppression

Liés aux utilisateurs

Cahier des charges

5) Les expressions

Listes (par thème)

Ajout, édition et suppression

Liées aux utilisateurs

Flashcards de révision

An aerial, wide-angle photograph of the New York City skyline during the 'golden hour' of sunset. The sky is a warm, hazy orange, and the city's numerous skyscrapers are silhouetted against the bright light. The Empire State Building is a prominent feature in the center-left. The Hudson River is visible on the right side of the frame. The overall atmosphere is serene and majestic.

II – Les outils

Les outils

1) La conception

LucidChart

VS Code

Github

LAMP

PHPMyAdmin

Composer

Les outils

2) Le développement

HTML & CSS

SCSS

W3.CSS

JS

PHP

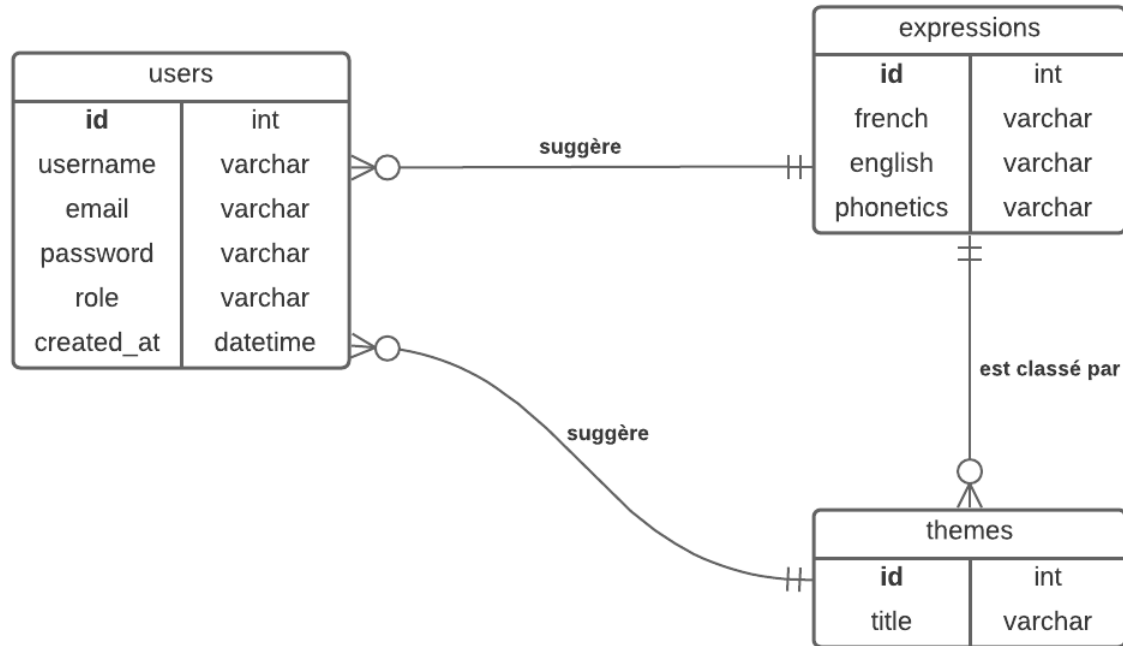
MySQL


Twig

An aerial photograph of the New York City skyline during the 'golden hour' of sunset. The sun is low on the horizon to the right, casting a warm, orange glow over the city. The sky is filled with soft, wispy clouds. In the foreground and middle ground, numerous skyscrapers are visible, including the Empire State Building which stands out prominently in the center. The Hudson River is visible on the right side of the image. The overall atmosphere is serene and majestic.

III – La base de données

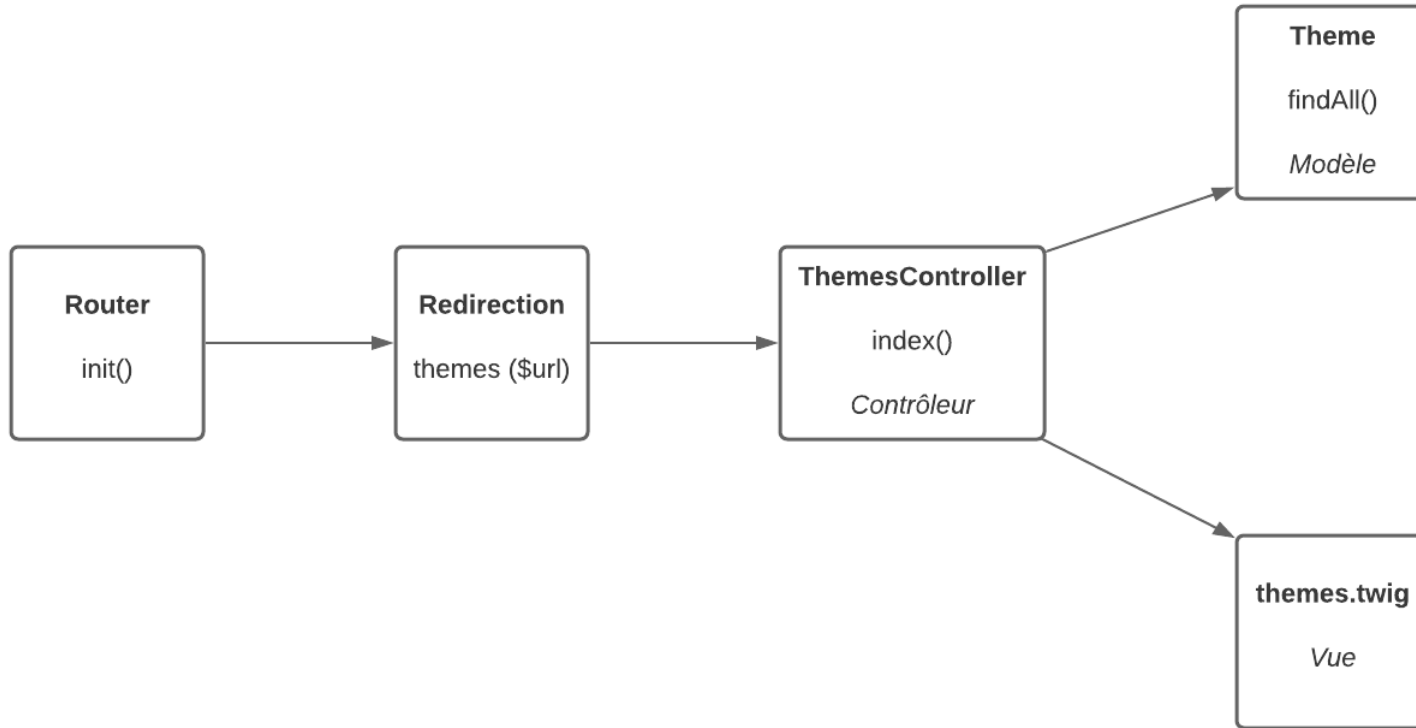
La base de données



An aerial photograph of the New York City skyline during the 'golden hour' of sunset. The sun is low on the horizon to the right, casting a warm, orange glow over the entire scene. The sky is filled with soft, wispy clouds. In the foreground and middle ground, a dense cluster of skyscrapers is visible, including the Empire State Building with its iconic spire. The buildings are silhouetted against the bright sky, with some reflecting the low sun. The Hudson River is visible on the left, and the East River on the right. The overall atmosphere is serene and majestic.

IV – L'architecture

Le design pattern MVC



L'architecture

Le framework se divise en plusieurs dossiers :

core	Base, fondations (routeur, requêtes, sessions, sécurité)
database	Données de test (CSV)
models	Classes des modèles
controllers	Classes des contrôleurs
views	Vues (en Twig)
validation	Règles de validation des formulaires
tests	Tests unitaires avec PHPUnit

An aerial photograph of the New York City skyline during sunset. The sun is low on the horizon to the right, casting a warm, golden glow over the city. The sky is filled with soft, wispy clouds. The city is densely packed with skyscrapers of various heights and architectural styles. The Empire State Building is prominent in the center-left. The Hudson River is visible on the left, and the East River is on the right. The overall atmosphere is serene and majestic.

V – Sécurité

La sécurité

Les problématiques récurrentes sont :

- le hachage des mots de passe
- la faille XSS (Cross Site Scripting)
- la faille CSRF (Cross Site Request Forgery)
- les injections SQL
- les attaques par déni de service (DDoS)
- la validation des données
- les rôles utilisateurs

Sécurité - Exemples

```
public function findOneById($themeId) {  
    $this->setQuery("SELECT *  
                    FROM themes  
                    WHERE id = :id");  
  
    return $this->fetchOne("id", $themeId);  
}
```

```
<input type="hidden" name="token" value="{{ session.token }}">  
<a href="{{ root }}/themes/">&lt; Retour à la liste</a>
```

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VI – La stratégie de développement

Pourquoi un framework personnel ?


- une grande liberté
- une meilleure maîtrise du code
- une mise en pratique de la POO
- un défi personnel

Données de test (CSV)

```
/* Thèmes */  
  
// Création  
  
$themeModel->create();  
  
// Données  
  
$themes = Faker::loadCSV("themes", ["title", "user_id"]);  
  
foreach ($themes as $theme) {  
    $themeModel->insert($theme);  
}
```


Tests unitaires (PHPUnit)

```
public function testFindAll() {  
    $themeModel = new Theme();  
    $res = $themeModel->findAll();  
  
    $this->logTheme(__FUNCTION__, count($res));  
  
    $this->assertNotEmpty($res);  
}
```

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VII – Les difficultés rencontrées

Les difficultés rencontrées

- Choix technologiques
- Construction de l'architecture
- Organisation du code
- Interactions avec la base de données
- Écriture des tests
- Reprise du design

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VIII – La démonstration

An aerial photograph of the New York City skyline during the 'golden hour' of sunset. The sun is low on the horizon to the right, casting a warm, orange glow over the entire scene. The sky is filled with soft, wispy clouds. In the center, the Empire State Building stands out prominently with its iconic spire. To its right, the modern, angular One World Trade Center is visible. The foreground and midground are densely packed with a variety of skyscrapers and buildings, their windows reflecting the ambient light. The Hudson River is visible on the left side of the image, and the East River is on the right. The overall atmosphere is serene and majestic, capturing the iconic urban landscape of New York City.

IX – Les axes d'amélioration

Axes d'amélioration

- Refonte avec JS, Vue et Firebase
- Sections RGPD
- Pagination et filtres de recherche
- Réinitialisation du mot de passe par e-mail
- API audio avec choix des accents
- Niveaux de difficulté pour les thèmes
- Ajout d'un blog

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Merci pour votre attention !

Des questions ?