

Backend (Laravel + MySQL)

1. Set Up the Project:

- Install Laravel via Composer:

```
composer create-project --prefer-dist laravel/laravel subscription-platform
```

- Set up your `.env` file to configure the database connection.

2. Database Configuration:

- Create the necessary tables using migrations:

```
php artisan make:migration  
create_subscriptions_table php artisan  
make:migration create_posts_table
```

- Define the schema in the migration files and run the migrations:

```
php artisan migrate
```

3. Models and Relationships:

- Create models for `Subscription` and `Post`:

```
php artisan make:model  
Subscription php artisan  
make:model Post
```

- Define relationships in the models.

4. API Endpoints:

- Create controllers for handling subscriptions and posts:

```
php artisan make:controller  
SubscriptionController php artisan  
make:controller PostController
```

- Define routes in `routes/api.php` for subscribing to websites and creating posts.

5. Email Notifications:

- Set up email configuration in `.env`.
- Use Laravel's `Mail` facade to send emails.
- Implement queues using Laravel's queue system to handle email sending in the background:

```
php artisan
queue:table php
artisan
queue:work
```

6. Commands and Scheduling:

- Create Artisan commands to schedule email sending:

```
php artisan make:command SendEmails
```

- Schedule the command in `app/Console/Kernel.php`.

7. Test-Driven Development (TDD):

- Write tests for all features using Laravel's testing tools:

```
php artisan make:test
SubscriptionTest php artisan
make:test PostTest
```

Frontend (Vue.js)

1. Set Up the Project:

- Initialize a Vue.js project within the Laravel application:

```
npm install vue@next
npm install vue-
router@next npm
install axios
```

2. Create Components:

- **Subscription Form:** A form to allow users to subscribe to websites.
- **Post Form:** A form to create new posts.

3. API Integration:

- Use `axios` to connect the frontend with the backend APIs.

4. UI Enhancements:

- Use a CSS framework like Tailwind CSS for styling.