**Task Management API Documentation**

This document provides instructions on setting up and running the Laravel RESTful API named "task\_management\_api" using Postman collections. The API allows you to manage tasks, user authentication, and related operations.

**Prerequisites**

Before you begin, ensure you have the following installed:

* [Laravel](https://laravel.com/) (with Composer)
* [Postman](https://www.postman.com/) for testing API requests

**Setup Instructions**

1. **Clone the Repository:**

git clone <repository-url> cd task\_management\_api

1. **Install Dependencies:**

composer install

1. **Configure Environment:**
   * Duplicate the **.env.example** file and rename it to **.env**.
   * Configure your database settings in the **.env** file.
2. **Generate Application Key:**

php artisan key:generate

1. **Run Migrations and Seeders:**

php artisan migrate --seed

1. **Start the Development Server:**

php artisan serve

The API will be accessible at **http://127.0.0.1**

**Import Postman Collection**

Download the Postman Collection file.

1. Open Postman.
2. Click on "Import" in the top-left corner.
3. Upload the downloaded Postman Collection file.

**Run API Requests**

1. **Login:**
   * Use the "Login" request in the Postman collection.
   * Set the email and password in the request body.
   * Obtain the **token\_from\_login\_response** from the response.
2. **Retrieve All User's Tasks:**
   * Use the "Retrieve All User's Tasks" request.
   * Set the Authorization header with the obtained token.
3. **Retrieve All Tasks:**
   * Use the "Retrieve All Tasks" request.
   * Set the Authorization header with the obtained token.
4. **Show Task with Dependencies:**
   * Use the "Show Task with Dependencies" request.
   * Set the Authorization header with the obtained token.
5. **Create a New Task:**
   * Use the "Create a New Task" request.
   * Set the Authorization header with the obtained token.
   * Modify the request body as needed.
6. **Update Task by ID:**
   * Use the "Update Task by ID" request.
   * Set the Authorization header with the obtained token.
   * Modify the request body as needed.
7. **Update Task Status by ID:**
   * Use the "Update Task Status by ID" request.
   * Set the Authorization header with the obtained token.
   * Modify the request body as needed.
8. **Assign Task to User:**
   * Use the "Assign Task to User" request.
   * Set the Authorization header with the obtained token.
   * Modify the request body as needed.
9. **Delete Task by ID:**
   * Use the "Delete Task by ID" request.
   * Set the Authorization header with the obtained token.
   * Modify the request body as needed.
10. **Filter Tasks:**
    * Use the "Filter Tasks" request.
    * Set the Authorization header with the obtained token.
    * Modify the request body as needed.
11. **Add Dependencies:**
    * Use the "Add Dependencies" request.
    * Set the Authorization header with the obtained token.
    * Modify the request body as needed.
12. **Logout:**
    * Use the "Logout" request.
    * Set the Authorization header with the obtained token.