

Laravel Timesheet API Project

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1 Project Overview

This project is a Laravel-based API for managing users, projects, and timesheets. It includes authentication using Laravel Sanctum and provides CRUD operations for all models.

2 Setup Steps

2.1 Prerequisites

- PHP 8.x or higher - MySQL or another supported database - Composer installed

2.2 Clone the Repository

```
git clone https://github.com/your-username/your-repo-name.git cd your-repo-name
```

2.3 Install Dependencies

```
composer install
```

2.4 Copy and Configure .env File

```
cp .env.example .env
```

 Update the '.env' file with your database credentials.

2.5 Generate Application Key

```
php artisan key:generate
```

2.6 Run Migrations

```
php artisan migrate
```

2.7 Start the Development Server

php artisan serve

3 Authentication

This API uses Laravel Sanctum for authentication. To access protected endpoints:

3.1 Register

```
curl -X POST http://127.0.0.1:8000/api/register -H "Content-Type: application/json" -d "'first_name' : 'John', 'last_name' : 'Doe', 'email' : 'john@example.com', 'password' : 'password123', 'password_confirmation' : 'password123', 'date_of_birth' : '1990-01-01', 'gender' : 'male'"
```

3.2 Login

```
curl -X POST http://127.0.0.1:8000/api/login -H "Content-Type: application/json" -d "'email': 'john@example.com', 'password': 'password123'"
```

3.3 Use the Token

Include the received token in the ‘Authorization’ header for subsequent requests: `curl -X GET http://127.0.0.1:8000/api/users -H "Authorization: Bearer your_token_here"`

4 API Endpoints

4.1 Users

- List Users: ‘GET /api/users’ - Get User: ‘GET /api/users/id’ - Create User: ‘POST /api/users’ - Update User: ‘PUT /api/users/id’ - Delete User: ‘DELETE /api/users/id’

4.2 Projects

- List Projects: ‘GET /api/projects’ - Get Project: ‘GET /api/projects/id’ - Create Project: ‘POST /api/projects’ - Update Project: ‘PUT /api/projects/id’ - Delete Project: ‘DELETE /api/projects/id’

4.3 Timesheets

- List Timesheets: ‘GET /api/timesheets’ - Get Timesheet: ‘GET /api/timesheets/id’ - Create Timesheet: ‘POST /api/timesheets’ - Update Timesheet: ‘PUT /api/timesheets/id’ - Delete Timesheet: ‘DELETE /api/timesheets/id’

5 Database

A SQL dump of the database is provided in the `'database_backup' directory. You use this :`

5.1 Create a New MySQL Database

Create a new database for the project.

5.2 Import the SQL File

```
mysql -u your_username -p your_database_name < database_backup/dump.sql
```

5.3 Update .env File

Update your `' .env '` file with the new database credentials.

6 Testing

To run: `php artisan serve`

7 Sample Credentials

For testing purposes, you can use the following credentials:

- Email: `'john@example.com'` - Password: `'password123'`