

Blog System Documentation

1. Introduction

This project is a simple blog system built with Laravel and MySQL, allowing users to create, edit, delete, and view blog posts. It includes authentication using Laravel UI, Bootstrap for UI styling, and role-based access control for managing posts.

2. Requirements

- Laravel 10
- PHP 8.1+
- MySQL
- Composer
- Node.js & NPM (for frontend assets)

3. Database Setup

Create Database

Run the following SQL command:

```
CREATE DATABASE BlogDB;
```

4. Installation & Setup

1. Clone the repository

```
git clone <repository_link>
```

```
cd blog-system
```

2. Install dependencies

```
composer install
```

```
npm install && npm run dev
```

3. Configure the environment

1. Copy .env.example to .env:

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

2. Open the .env file and update the database credentials to match your MySQL setup:

```
DB_CONNECTION=mysql
```

```
DB_HOST=127.0.0.1
```

```
DB_PORT=3306
```

```
DB_DATABASE=BlogDB
```

```
DB_USERNAME=root # Change this if  
necessary
```

```
DB_PASSWORD= # Set your database  
password
```

3. Generate the application key:

```
php artisan key:generate
```

4. Install Laravel UI & Authentication

```
composer require laravel/ui
```

```
php artisan ui bootstrap --auth
```

```
npm install && npm run dev
```

5. Run migrations

```
php artisan migrate
```

6. Start the server

```
php artisan serve
```

and if you prefer to use mysql scripts instead of migration this is the script for posts table:

```
CREATE TABLE posts (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    user_id INT NOT NULL,  
    title VARCHAR(255) NOT NULL,  
    content TEXT NOT NULL,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE  
);
```

5. Features

Authentication

- Uses **Laravel UI** for login and registration
- Role-based access (Admins can manage all posts, users can only manage their own)

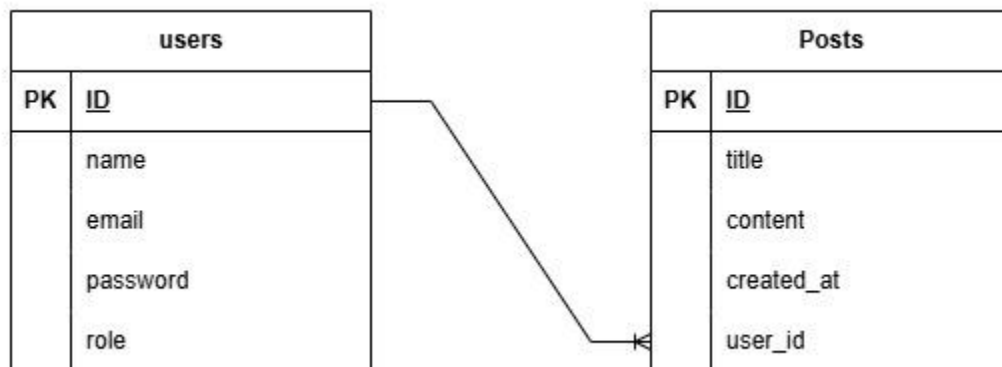
Post Management

- **View All Posts:** Homepage displays all posts
- **View Single Post:** Clicking a post shows full content
- **Create Post:** Logged-in users can create posts
- **Edit Post:** admins can edit posts
- **Delete Post:** admins can delete posts

6. Security

- **CSRF Protection** for forms
- **Laravel UI Auth** for authentication

7.Database schema



8. GitHub repository

<https://github.com/abdelsalamMahmoud/blog.git>

9. Video of me presenting the project

<https://youtu.be/6QPey813mh8>