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# Laravel API Authentication Using LARAVEL SANCTUM

#laravel #tutorial #beginners #webdev

## Make REST API AUTHENTICATION in LARAVEL 9 USING LARAVEL SANCTUM

Laravel Sanctum provides a featherweight authentication system for SPAs (single page applications), mobile applications, and simple, token based APIs.

### Installation Steps

If you are not using LARAVEL 9 you need to install LARAVEL Sanctum Otherwise you can skip the installation step.

#### Step 1

Install via composer

```
composer require laravel/sanctum
```

#### Step 2

Publish the Sanctum Service Provider

```
php artisan vendor:publish --provider="Laravel\Sanctum\SanctumServ
```

#### Step 3

Migrate The Database

```
php artisan migrate
```

## USING SANCTUM IN LARAVEL

User `HasApiTokens` Trait in `App\Models\User`

In Order to use Sanctum we need to use `HasApiTokens` Trait Class in User Model.

User Model should look like.

```
<?php

namespace App\Models;

use Illuminate\Contracts\Auth\MustVerifyEmail;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;
use Laravel\Sanctum\HasApiTokens;

class User extends Authenticatable
{
    use HasApiTokens, HasFactory, Notifiable;

    /**
     * The attributes that are mass assignable.
     *
     * @var array<int, string>
     */
    protected $fillable = [
        'name',
        'email',
        'password',
    ];

    /**
     * The attributes that should be hidden for serialization.
     *
     * @var array<int, string>
     */
    protected $hidden = [
        'password',
        'remember_token',
    ];

    /**
     * The attributes that should be cast.
     *
     * @var array<string, string>
     */
    protected $casts = [
        'email_verified_at' => 'datetime',
    ];
}
```

### API Authentication Routes

Create `AuthController` to handle all authentication related to API

```
php artisan make:controller Api\AuthController
```

In `routes/api.php` file update the API

```
Route::post('/auth/register', [AuthController::class, 'createUser']);
Route::post('/auth/login', [AuthController::class, 'loginUser']);
```

Now update `AuthController` with

```
<?php

namespace App\Http\Controllers\Api;

use App\Models\User;
use Illuminate\Http\Request;
use App\Http\Controllers\Controller;
use Illuminate\Support\Facades\Auth;
use Illuminate\Support\Facades\Hash;
use Illuminate\Support\Facades\Validator;

class AuthController extends Controller
{
    /**
     * Create User
     * @param Request $request
     * @return User
     */
    public function createUser(Request $request)
    {
        try {
            //validated
            $validateUser = Validator::make($request->all(), [
                'name' => 'required',
                'email' => 'required|email|unique:users,email',
                'password' => 'required'
            ]);

            if($validateUser->fails()){
                return response()->json([
                    'status' => false,
                    'message' => 'validation error',
                    'errors' => $validateUser->errors()
                ], 401);
            }

            $user = User::create([
                'name' => $request->name,
                'email' => $request->email,
                'password' => Hash::make($request->password)
            ]);

            return response()->json([
                'status' => true,
                'message' => 'User Created Successfully',
                'token' => $user->createToken("API TOKEN")->plainText
            ], 200);

        } catch (\Throwable $th) {
            return response()->json([
                'status' => false,
                'message' => $th->getMessage()
            ], 500);
        }
    }

    /**
     * Login The User
     * @param Request $request
     * @return User
     */
    public function loginUser(Request $request)
    {
        try {
            $validateUser = Validator::make($request->all(), [
                'email' => 'required|email',
                'password' => 'required'
            ]);

            if($validateUser->fails()){
                return response()->json([
                    'status' => false,
                    'message' => 'validation error',
                    'errors' => $validateUser->errors()
                ], 401);
            }

            if(Auth::attempt($request->only(['email', 'password'])))
                return response()->json([
                    'status' => true,
                    'message' => 'Email & Password does not match'
                ], 401);

            $user = User::where('email', $request->email)->first();

            return response()->json([
                'status' => true,
                'message' => 'User Logged In Successfully',
                'token' => $user->createToken("API TOKEN")->plainText
            ], 200);

        } catch (\Throwable $th) {
            return response()->json([
                'status' => false,
                'message' => $th->getMessage()
            ], 500);
        }
    }
}
```

Protect API With Authentication we need to use `auth:sanctum` middleware.

```
Route::apiResource('posts', PostController::class)->middleware('au
```

Here are the results.

