

Authentication & Authorization

Overview

The Event Booking System API enforces **authentication for event management** while allowing **attendee registration without authentication**.

Authentication Use Case Summary

- **Event Management (CRUD):** Requires authentication.
 - **Attendee Registration:** Open to the public; does not require authentication.
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Laravel Passport Integration Guide

Step 1: Install Passport

```
composer require laravel/passport
```

Step 2: Migrate and Install

```
php artisan migrate  
php artisan passport:install
```

This generates encryption keys and client secrets.

Step 3: Add Passport Service in **App\Models\User**

```
use Laravel\Passport\HasApiTokens;  
  
class User extends Authenticatable  
{  
    use HasApiTokens, HasFactory, Notifiable;  
}
```

Step 4: Register Passport Routes in `AuthServiceProvider`

```
use Laravel\Passport\Passport;
```

```
public function boot()
{
    Passport::routes();
}
```

Step 5: Configure Auth Guard in `config/auth.php`

```
'guards' => [
    'api' => [
        'driver' => 'passport',
        'provider' => 'users',
    ],
],
```

Protected vs Public Routes

Protected Routes Example (Authenticated Users Only)

```
Route::middleware('auth:api')->group(function () {
    Route::apiResource('events', EventController::class);
});
```

Public Routes (No Auth Required)

```
Route::post('attendees', [AttendeeController::class, 'store']);
```

Token-Based Authentication Flow

1. User Registers/Login:

- POST `/api/register` or `/api/login`
- Returns a bearer token.

2. Authenticated Request:

Include token in headers:

`Authorization: Bearer {token}`

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3. Token Expiry & Refresh:

- Optionally set up token refresh logic.

Security Tips

- Use HTTPS in production.
- Expire tokens after reasonable periods.
- Use `scopes` for fine-grained access control.

Optional Enhancements

- **Rate Limiting:** Throttle event creation.
- **Role-based Access Control (RBAC):** Admins vs Managers.
- **Social Login Integration:** Google/Facebook OAuth via Passport bridges.