Laravel Admin Access Example (Complete Code)

1. Migration – Add Role to Users Table

File: database/migrations/xxxx_add_role_to_users.php

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration {
    public function up(): void
    {
        Schema::table('users', function (Blueprint $table) {
            $table->string('role')->default('user'); // default role
        });
    }

    public function down(): void
    {
        Schema::table('users', function (Blueprint $table) {
            $table->dropColumn('role');
        });
    }
};
```

2. Seeder – Create an Admin User

File: database/seeders/AdminUserSeeder.php

```php
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use App\Models\User;
use Illuminate\Support\Facades\Hash;
```

```php
class AdminUserSeeder extends Seeder
{
    public function run(): void
    {
        User::create([
            'name' => 'Admin',
            'email' => 'admin@example.com',
            'password' => Hash::make('password123'), // set password
            'role' => 'admin',
        ]);
    }
}
```

3. Middleware – Check Admin

File: app/Http/Middleware/AdminMiddleware.php

```php
<?php

namespace App\Http\Middleware;

use Closure;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Auth;

class AdminMiddleware
{
    public function handle(Request $request, Closure $next)
    {
        if (Auth::check() && Auth::user()->role === 'admin') {
            return $next($request);
        }

        return redirect('/')->with('error', 'Access Denied!');
    }
}
```

4. Register Middleware

File: app/Http/Kernel.php → inside $routeMiddleware array:

```php
protected $routeMiddleware = [
    // other middlewares...
    'admin' => \App\Http\Middleware\AdminMiddleware::class,
];
```

5. Controller – Admin Dashboard

File: app/Http/Controllers/AdminController.php

```php
<?php

namespace App\Http\Controllers;

class AdminController extends Controller
{
    public function index()
    {
        return view('dashboard', ['message' => 'Welcome, Admin']);
    }
}
```

6. Routes

File: routes/web.php

```php
use Illuminate\Support\Facades\Route;
use App\Http\Controllers\AdminController;

Route::get('/', function () {
    return view('welcome');
});

Route::get('/dashboard', [AdminController::class, 'index'])
    ->middleware(['auth', 'admin']);
```

7. Views – Welcome Page

File: resources/views/welcome.blade.php

```html
<!DOCTYPE html>
<html>
```

```
<head>
    <title>Laravel App</title>
    <style>
        .alert {
            padding: 10px;
            background: #f8d7da;
            color: #721c24;
            border: 1px solid #f5c6cb;
            border-radius: 5px;
            margin-bottom: 15px;
        }
    </style>
</head>
<body>
    {{-- Show error flash message --}}
    @if(session('error'))
        <div class="alert">
            {{ session('error') }}
        </div>
    @endif

    <h1>Welcome to Laravel Homepage</h1>
    <p>Login to access dashboard.</p>
</body>
</html>
```

7. Views – Dashboard Page

File: resources/views/dashboard.blade.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Admin Dashboard</title>
</head>
<body>
    <h1>{{ $message }}</h1>
</body>
</html>
```