

Angular Role-Based Authentication Project

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Getting Started

To start the project, run:

```
> npm run start
```

This will start both the Angular application and the json-server to serve the database.

Alternatively, you can start them manually:

```
> ng serve
```

```
> json-server --watch db.json --port 3000
```

Role-Based Authentication

This project implements role-based authentication for routes and actions. Roles:

- Admin: Full access (Add, Edit, Delete, All Routes)
- Editor: Cannot access Users route, but can perform all actions
- Viewer: Cannot access Users route and has no action permissions

Unauthorized access is blocked via RoleGuard, and redirected to a 403 page. Non-existent routes redirect to a 404 page.

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Navigation

Includes six main menu items:

- Home
- Users
- Reports
- Projects
- About Us
- Contact Us (no component implemented, for 404 demonstration)

Features

- Role-based route and action control using RoleGuard
- 403/404 error redirection
- Error handling for GET requests
- ngx-toastr for user-friendly notifications
- json-server for CRUD operations
- uuid() for generating IDs
- Module-based architecture
- Standalone components and a global form
- Role stored in localStorage (persists after hard reload)
- Built with Angular 16 & Angular Material 16

Dependencies

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- Angular 16
- Angular Material 16
- ngx-toastr
- json-server
- uuid