

Introduction:

Welcome to our Angular application code challenge! This challenge assesses your skills in developing a simple Angular application that interacts with REST APIs, implements authentication, and demonstrates proficiency in Angular concepts.

Objective:

Your task is to create an Angular application that retrieves data from a public REST API, displays a list of countries with their flags, allows users to view detailed country information, and implements authentication with hardcoded user roles.

Requirements:

Fetch country data from the REST API endpoint: Country API (details further below).

Display a list of countries with their flags on the main page.

Each country item should include its flag, name, capital, region, population, and currency.

Implement navigation to a detailed view when a country is clicked.

The detailed view should display all available information about the selected country.

Implement authentication with two hardcoded user roles:

Admin: Has access to all pages and functionalities, including delete and edit functions.

Operator: Can view the pages but without delete and edit functions.

Ensure the application is responsive and accessible for a seamless user experience.

Write clean, maintainable code with proper comments and documentation where necessary.

Provide clear instructions on how to run and test the application.

Submission:

Submit your solution as a GitHub repository link or a compressed file containing the codebase.

Include a README file with instructions on how to run the application, test cases, and any additional notes.

Public REST APIs:

All Countries: <https://restcountries.com/v3.1/all?fields=name,capital,currencies,region,population>

Country Details: <https://restcountries.com/v3.1/alpha/{countryIsoCode}>

Example: <https://restcountries.com/v3.1/alpha/mt>

Flags: <https://flagcdn.com/{countryIsoCode}.svg>

Example: <https://flagcdn.com/mt.svg>

Authentication Approach:

Implement authentication logic within the Angular application using two hard coded user roles: Admin and Operator.

Define user roles within the application and restrict access to certain pages and functionalities based on the user's role.