

# Backend developer assignment

## Introduction

The purpose of this assignment is to evaluate candidate's familiarity with REST API building, programming patterns and to showcase a sample of what clean and reusable code means to the candidate. This also helps in understanding candidate's basic design knowledge.

## Notes

- Provide instructions on how to run your application locally.
- Properly test your service. (at least unit testing)
- Please feel free to include more features other than a few mentioned below

## Requirement

You are task with building a simple RESTful API for managing a collection of TV shows.

- Create a Java based application. Use any framework of your choice.
- Data should be persisted in an embedded database.
- Implement endpoints for the following operations:
  - Create a new TV show.
  - Retrieve all TV shows.
  - Retrieve a single TV show by its ID.
  - Search TV show by genre.
  - Update an existing TV show.
  - Delete a TV show by its ID.
- Use appropriate HTTP methods and status codes for each operation.

## Architecture

There is no limit for this. Design your application as you wish. But make sure you will focus on clean code, reusability and best practices. Show us that you know how to produce top notch applications.