



TvMaze Scraper

Time: 3 hours

Background

For a new metadata ingester we need a service that provides the cast of all the tv shows in the TVMaze database, so we can enrich our metadata system with this information. The TVMaze database provides a public REST API that you can query for this data.

<http://www.tvmaze.com/api>

This API requires no authentication but it is rate limited, so keep that in mind.

Assignment

We want you to create an application that:

1. scrapes the TVMaze API for show and cast information;
2. persists the data in storage;
3. provides the scraped data using a REST API.

We want the REST API to satisfy the following business requirements.

1. It should provide a paginated list of all tv shows containing the id of the TV show and a list of all the cast that are playing in that TV show.
2. The list of the cast must be ordered by birthday descending.

The REST API should provide a JSON response when a call to a HTTP endpoint is made (it's up to you what URI).

Example response:

```
[
  {
    "id": 1,
    "name": "Game of Thrones",
    "cast": [
      {
        "id": 7,
        "name": "Mike Vogel",
```



```
"birthday": "1979-07-17"
    },
    {
        "id": 9,
        "name": "Dean Norris",
        "birthday": "1963-04-08"
    }
]

},
{
    "id": 4,
    "name": "Big Bang Theory",
    "cast": [
        {
            "id": 6,
            "name": "Michael Emerson",
            "birthday": "1950-01-01"
        }
    ]
}

]
```

Guidelines

1. Write your solution using .NET Core 3.x.
2. Make your solution available in a public GIT repository (e.g. Github) for the duration of the interview process.