TvMaze Scraper

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 in 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 members that are playing on 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 an 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 the latest version of .NET.
2. Make your solution available in a public GIT repository (e.g. Github) for the duration of the interview process.
3. Cover the behavior with tests.