

# Assignment - TvMaze Scraper

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 provide the following data

1. 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 be written in C# and 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": 9,
        "name": "Dean Norris",
        "birthday": "1963-04-08"
      },
      {
        "id": 7,
        "name": "Mike Vogel",
        "birthday": "1979-07-17"
      }
    ]
  },
  {
    "id": 4,
    "name": "Big Bang Theory",
    "cast": [
      {
        "id": 6,
        "name": "Michael Emerson",
        "birthday": "1950-01-01"
      }
    ]
  }
]
```