

Fullstack exercise

The goal of this exercise is to build a simple frontend & backend system that shows the user information about movies. The system should integrate with the Open Movie Database (OMDB) and the New York Times (NYT) movie review API and show the information to the user through a unified interface. You are free to complete the exercise with any technologies and tools you see fit. Making the frontend look nice is optional. A basic unstyled HTML is enough.

Requirements

The solution should have two components: a backend web server and a frontend that runs in the user's browser.

Backend

- The backend should provide data for the frontend through a JSON REST API
- The backend should integrate with OMDB and NYT movie review APIs
- It can be sometimes hard to match movies from OMDB to correct reviews from NYT. For example, because old movies might have changed their name since original premier. For this exercise, it is okay to sometimes show wrong NYT reviews.

Frontend

- The frontend should not connect to the OMDB and NYT APIs directly but instead receive all data through the backend server.
- The frontend should provide two views: a movie search and a movie information view
 - In movie search, the user can search for a movie by title and see a list of the results with at least the name, the poster image (if available) and a link to the movie information view for that movie. The search results should come from the OMDB.
 - In the movie information view, the user should see at least the title, the year, and the plot from the OMDB.
 - The information view should also show the New York Times review information if a review can be found with the title of the movie. The review should show at least the title and short summary of the review.

Required APIs

OMDB API: <http://www.omdbapi.com/>

- Search example:
<http://www.omdbapi.com/?s=interstellar&type=movie&apikey=<APIKEY>>

- Get example:
`http://www.omdbapi.com/?i=tt0816692&apikey=<APIKEY>`
- Get your API key at <http://www.omdbapi.com/apikey.aspx>

NYT API: <https://developer.nytimes.com/docs/movie-reviews-api/1/overview>

- Review search example:
`https://api.nytimes.com/svc/movies/v2/reviews/search.json?query=interstellar&api-key=<APIKEY>`
- Get your API key at <https://developer.nytimes.com/get-started>