

AngularJS \$http and APIs

Movie Browser

Today you will build a movie browser app, which will fetch a variety of different information about any movie you care to enter. To do this, we will use:

- AngularJS for app structure and controllers
- Bootstrap for styling
- Animate.css for some effects.

Project Files

Set up the following file structure:

- css/
 - animate.min.css – download or include from:
<http://cdnjs.cloudflare.com/ajax/libs/animate.css/3.2.6/animate.min.css>
 - bootstrap.min.css – download or include from:
<https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css>
 - style.css – download from Webcourses if using
- js/
 - angular.min.js – download or include from:
<https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.5.0-beta.1/angular.min.js>
 - app.js – create in lab
- partials/
 - main-info.html – download from Webcourses if using
 - related-results.html – download from Webcourses if using
- index.html – download from Webcourses if using

What do the index.html file and partials look like they should do?

API Documentation

Go to <http://www.omdbapi.com/> and read the documentation for what you can access via the api and how to structure your calls. You can use the “examples” section to see how a call is structured. We will use this API to return a plot summary and some other information for our app. What other information can this give us?


Go to <http://imdb.wemakesites.net/api/> and read the documentation for what you can access via the API and how to structure your calls. We will use this API to access movie posters for the movie being searched for. What property of the JSON object gives us this?

App.js – Write the JavaScript to result in the following data displayed to the screen

Movie Browser

spectre

Spectre, 2015
Released on: 06 Nov 2015 (148 min)



A cryptic message from the past sends James Bond on a rogue mission to Mexico City and eventually Rome, where he meets Lucia, the beautiful and forbidden widow of an infamous criminal. Bond infiltrates a secret meeting and uncovers the existence of the sinister organisation known as SPECTRE. Meanwhile back in London, Max Denbigh, the new head of the Centre of National Security, questions Bond's actions and challenges the relevance of M16 led by M. Bond covertly enlists Moneypenny and Q to help him seek out Madeleine Swann, the daughter of his old nemesis Mr White, who may hold the clue to untangling the web of SPECTRE. As the daughter of the assassin, she understands Bond in a way most others cannot. As Bond ventures towards the heart of SPECTRE, he learns a chilling connection between himself and the enemy he seeks.

Directors: Sam Mendes
Actors: Daniel Craig, Christoph Waltz, Léa Seydoux, Ralph Fiennes
Genre: Action, Adventure, Thriller

Ratings:
IMDb Rating: 7.4
Rotten Tomatoes: N/A

Related Results:

- Spectre, 2015
- The Spectre, 2010
- Films to Keep You Awake: Spectre, 2006
- The Red Spectre, 1907
- The Red Spectre, 1907
- Spectre, 1977
- Out 1: Spectre, 1974
- Spectre, 2009
- The Vampires: The Spectre, 1916
- The Spectre of Edgar Allan Poe, 1974

In this lab, you can either use the HTML and CSS files on Webcourses as starter files, or you can create your own. In the end you need to create an app that has the following fields:

- A search box in index.html. The user can enter a movie title, which is used as a parameter in calls to the two APIs mentioned previously.
- The title, release date, plot summary, poster, directors, top actors, genre and IMDB and Rotten Tomatoes ratings in a partial view
- A second partial view that returns a list of related results and their release dates

If using the HTML and CSS files on Webcourses, the below is a guide for completing app.js. It is only a guide, you can develop the app as you like once you have the above specifications.

- Set up your angularjs module and controller – using the names in HTML files
- Don't forget to include \$http in your controller parameters
- First write the functionality for your fetch() method:
 - This is composed of 2 calls to http.GET- why do we need to make 2 separate calls?
 - Write the function to return the promise object to the appropriate \$scope.#### object.
- Write the functionality for your change controller method (called when the value in the text box is changed): this will check a global variable pendingTask, clear it and call the fetch() function after a set time – why do we need this? (hint: use JS clearTimeout and setTimeout)
- Write the functionality for your update controller method. What parameter does this take? This basically changes the value of the search parameter for the 'related movies' search, and calls the change() method.