

## **Assignment 4 (Optional)**

In this assignment, you will be building a simple table which display popular movies. The data for this table will be provided by the API from <https://developers.themoviedb.org/3/getting-started/introduction>

### **Authentication**

Sign up for the API key at <https://www.themoviedb.org/documentation/api>. Make sure you select the developer API which is free.

### **Requirement**

The API can be queried via the browser so there is **no** backend server implementation in this assignment.

You can use this API to query for a list of popular movies

[https://api.themoviedb.org/3/discover/movie?sort\\_by=popularity.desc&api\\_key=xxxxx&page=1](https://api.themoviedb.org/3/discover/movie?sort_by=popularity.desc&api_key=xxxxx&page=1) (replace the api\_key with your registered API key). The API will return 20 movies which you will populate into a table on load of the page.

These are the list of columns that you should display in your table:

- title
- vote\_count
- vote\_average
- popularity
- release\_date

The data can be retrieved from the response of the API call.

### **Tooltip:**

On hover over the title of the movie, you need to display a tooltip which shows the “overview” of the response from the API call of the corresponding movie.

You can visit <https://stackoverflow.com/a/1333583> to understand how to display a tooltip.

Alternately, you can also add jQuery UI (<https://jqueryui.com/tooltip/>) or other Tooltip library to help you if you wanted something more fancy.

### **Pagination:**

You will need to implement pagination for the table, i.e. the ability to navigate to the next page and the previous page. Each time, the API will return next 20 movies or the previous 20 movies by passing in a different “**page**” parameter when you make the API query.

Example:

[https://api.themoviedb.org/3/discover/movie?sort\\_by=popularity.desc&api\\_key=xxxxx&page=1](https://api.themoviedb.org/3/discover/movie?sort_by=popularity.desc&api_key=xxxxx&page=1) returns the first 20 movies and  
[https://api.themoviedb.org/3/discover/movie?sort\\_by=popularity.desc&api\\_key=xxxxx&page=2](https://api.themoviedb.org/3/discover/movie?sort_by=popularity.desc&api_key=xxxxx&page=2) returns the next 20 movies.

You will have 2 links at the below of the table: “Previous Page” and “Next Page”. On click of these links, you will make API call to retrieve the next 20 or the previous 20 movies and re-render the content of the table with the response of the API.

### **Movie Details Modal (Bonus)**

On click of the title of the movie, you will launch a modal box which contains the movie details.

These are the data that you need to display in the modal box:

- title
- an image from the poster\_path (“<https://image.tmdb.org/t/p/w500>”+poster\_path). See <https://developers.themoviedb.org/3/getting-started/images> for more details
- release date

This is an example of how to implement a simple modal

[https://www.w3schools.com/howto/howto\\_css\\_modals.asp](https://www.w3schools.com/howto/howto_css_modals.asp). There are many examples of how to create a modal box by using external libraries <https://www.sitepoint.com/14-jquery-modal-dialog-boxes/> for something fancier.