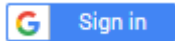


Getting Started

1. Go to <http://quickdojo.com>
2. Click this:



3. Use your own email address, or use the email address pcddojo@gmail.com
4. Use password **pcd@!101**
5. To save a document, put your filename in the field where it says “Type your filename here” and click publish.
Tip 1: Use a name that’s unique to you (maybe your surname and initial, e.g. murphyj.html)
Tip 2: Make sure you put .html at the end (otherwise it’s not a HTML page!)
Tip 3: If nothing happens when you click “Publish”, you may have popups blocked!

Movie Lookup

This project is for a simple movie lookup web app. When you search for a movie, it will display matching movie posters for that movie (or any like it). This project uses the following programming features:

- **Bootstrap** – a system that makes the page look as good on mobile as it does on desktop. The layout on screen will reflow to fit the screen size.
- An **External API** from themoviedb.org (a movie database website). An API is a way of accessing data from an external website and using it as data for your app. This app will send a query to themoviedb.org and it will return a list of matching titles.
- **JSON** is short for **JavaScript Object Notation**). When themoviedb.org is queried, the data is sent back in JSON format – a structured format where all the movies are listed in a certain format that Javascript can read and format easily.
- **AJAX** is short for **Asynchronous Javascript And XML**. It’s a mechanism for updating a web page without reloading the entire page.

For more information on Bootstrap, JSON and AJAX see <https://w3schools.com>

The HTML Code:

Start with the standard header code, including some external scripts and CSS (Cascading StyleSheets) that this web app requires.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Dojo Movie Lookup</title>
5   <script src="http://ajax.aspnetcdn.com/ajax/jquery/jquery-
6   2.1.3.min.js"></script>
7   <link rel="stylesheet"
8   href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.2/lumen/bootstrap.min.css"/>
9   <script
10  src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.2/js/bootstrap.min.js">
11 </script>
12 <link rel='stylesheet'
13 href='http://quickdojo.com/lessonplans/movies/responsivegrid.css'>
```

The code below is the API call to themoviedb.org. For line 16, type the long string of characters VERY CAREFULLY! It's an API Key (like a password) to use their system. If it's wrong, it won't work. On line 16, anywhere you see a "1" it's a one. Anywhere you see a "0" it's a zero.

```
10 <script>
11   $(function() {
12     var url = 'http://api.themoviedb.org/3/',
13         mode = 'search/movie',
14         input,
15         movieName,
16         key = '?api_key=61a82aca6630ae1cbc3635d8710c0fbe';
17     var imageBaseURL = 'https://image.tmbd.org/t/p/original/';
18     var noPoster = 'http://quickdojo.com/lessonplans/movies/noposter.png';
```

The code below means that you can type something in the search box and press the enter key on your keyboard (it's the same as clicking the button!)

```
19 $(document).ready(function(){
20   $('#searchterm').keypress(function(e){
21     if(e.keyCode==13)
22       $('#search').click();
23   });
24 });
```

The code below is the main part of the script. When the search button is clicked (or the enter key is pressed), this code kicks in.

Note 1: Be VERY careful with the single quotes and double quotes, especially on line 38 and 40!

Note 2: Be VERY careful with all the curly brackets and regular brackets from line 41-47!

Line 28 takes the value entered and puts it in a variable called "movieName".

Lines 29-32 is the code that makes the API call to themoviedb.org. It uses an AJAX call (a method to update the page without reloading it).

Line 33-34 say that if no results are found, a message that says so is displayed on screen.

Line 35 starts the section that runs if movies ARE found.

Line 36 starts a loop that displays all movie posters that are found.

Line 40 will run if movie is found but a poster is not (it will show a "Poster Unavailable" image).

```
25 $('#search').click(function() {
26     $('#info').html('');
27     var input = $('#searchterm').val(),
28     movieName = encodeURI(input);
29     $.ajax({
30         url: url + mode + key + '&query=' + movieName,
31         dataType: 'json',
32         success: function(data) {
33             if (data.total_results == 0)
34                 alert('Movie not found');
35             else {
36                 for (i = 0; i < data.results.length; i++) {
37                     if (data.results[i].poster_path) {
38                         $('#info').append('<li>');
41                     }
42                 }
43             }
44         });
45     });
46 });
47 </script>
48 </head>
```

The code below is the start of the body section. The first piece is a heading on screen and some instructions.

```
50 <body>
51 <div class="container">
52   <div class="page-header" id="banner">
53     <div class="row">
54       <div class="col-lg-8 col-md-8 col-sm-8">
55         <h1>Dojo Movie Lookup</h1>
56         <p class="lead">Enter the name of the movie you want to look up</p>
57       </div>
58     </div>
59   </div>
```

The section below is the search field and the search button.

```
60 <section id="fetch">
61   <div class="form-group">
62     <div class="input-group">
63       <input type="text" class="form-control" placeholder="Enter a movie title"
64       id="searchterm" />
65       <span class="input-group-btn">
66         <button class="btn btn-primary" id="search">Find Movie</button>
67       </span>
68     </div>
69   </div>
70 </section>
```

Finally, the section below will display results on screen if anything is found!

```
71 <div class="panel panel-info" id="results">
72   <div class="panel-heading">
73     <h3 class="panel-title">Results</h3>
74   </div>
75   <div class="panel-body pattern" id="pattern">
76     <ul class="g" id="info">
77     </ul>
78   </div>
79 </div>
80 </div>
81 </body>
82 </html>
```