# **ZocDoc Take Home Challenge**

Imagine that you are building a website for film enthusiasts to explore the top-rated movies of the year. By integrating with our movie information API, your website should support the following use-cases:

- Discovery users of your website can view the top 10 movies of the year at a glance
- Research users can compare movie metadata, such as ratings, actors, etc. in order to select a film to screen
- Booking users are able to proceed to purchase tickets to the desired movie via a button (the button's implementation is not required, the button can redirect the user to the ZocDoc homepage or another 3<sup>rd</sup>-party website)

From a functional and UX perspective, how the movies or their details interact and are displayed is entirely up to you. As long as the above requirements are met, feel free to focus on areas you're most interested in.

# Considerations

- This challenge should take approximately 4 hours to complete.
- Feel free to use 3<sup>rd</sup> party libraries.
- To submit your solution: send a zip file consisting of all files necessary to run and view your code.

**Your authentication token:** 3b502b3f-b1ff-4128-bd99-626e74836d9c

## **APIs**

#### 1. Retrieve the movie set

GET https://interview.zocdoc.com/api/1/FEE/AllMovies

#### **Parameters**

Name	Туре	Description
authToken	string	Required. A unique key that allows you to retrieve data. Your
		key will expire after 3 hours from initial use.

#### **Sample Output**

```
[
      "Id":381,
      "Rank":1,
      "Name": "The Lives of Others",
      "Duration": "137 min",
      "Description": "In 1984 East Berlin, an agent of ...",
      "Director": "Florian Henckel von Donnersmarck",
      "Genres":[
         "Drama",
         "Thriller"
      ],
      "Actors":[
         "Martina Gedeck"
      1
   },
      "Id":262,
      "Rank":75,
      "Name": "The Intouchables",
      "Duration":"112 min",
      "Description": "After he becomes a quadriplegic ...",
      "Director": "Olivier Nakache",
      "Genres":[
         "Biography"
                       ],
      "Actors":[
         "François Cluzet",
         "Omar Sy"
      1
   },
   . . .
]
```

## 2. Retrieve the basic movie information based on rank

GET https://interview.zocdoc.com/api/1/FEE/MoviesByRank

#### **Parameters**

Name	Туре	Description
authToken	string	Required. A unique key that allows you to retrieve data. Your
		key will expire after 3 hours from initial use.
startRankIndex	int	<b>Required.</b> The rank of the first movie you're interested in
		retrieving. The movies retrieved will start at this rank. The first
		possible index is 1 (ie. the top movie is assigned rank 1).
numMovies	int	<b>Required.</b> The total number of movies to be retrieved. Movies
		ranked from startRankIndex to startRankIndex +
		numMovies will be retrieved.

# **Sample Output**

```
[
   {
      "Id":34,
      "Rank":5,
      "Name": "The Shawshank Redemption"
   },
   {
      "Id":100,
      "Rank":6,
      "Name": "The Intouchables"
   },
   {
      "Id":55,
      "Rank":7,
      "Name": "Schindler's List"
  }
]
```

#### 3. Retrieve detailed movie information

GET https://interview.zocdoc.com/api/1/FEE/MovieDetails

#### **Parameters**

Name	Туре	Description
authToken	string	<b>Required.</b> A unique key that allows you to retrieve data.
		Your key will expire after 3 hours from initial use.
movields	Int[]	<b>Required.</b> The ids of the movies to be retrieved.

#### **Sample Output**

```
[
      "Id":332,
      "Name": "Back to the Future",
      "Duration": "116 min",
      "Description": "A young man is accidentally ...",
      "Director": "Robert Zemeckis",
      "Genres":[
         "Adventure"
      ],
      "Actors":[
         "Michael J. Fox",
         "Christopher Lloyd"
   },
      "Id":290,
      "Name": "The Green Mile",
      "Duration": "189 min",
      "Description": "The lives of guards on Death ...",
      "Director": "Frank Darabont",
      "Genres":[
         "Crime"
      ],
      "Actors":[
         "Tom Hanks",
         "David Morse",
         "Michael Clarke Duncan"
      ]
]
```