

Directors API with Node.js

Contacts

If you have any questions, please send us an email before starting the assignment.

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Description

The goal of this exercise is to build a REST API for directors based on the existing Livestream API. It should allow movie directors with an existing Livestream account to register with your service and provide additional information about themselves. Finally, it should allow the public to list directors who have registered with your service.

Here are some example directors with Livestream accounts:

- <https://livestream.com/accounts/6488818>
- <https://livestream.com/accounts/6488824>
- <https://livestream.com/accounts/6488834>
- You?

Here is what we would like you to build using Node.js:

- Using their favorite REST client, the directors should be able to register an account with your service.
- Once they have created their account, they should also be able to modify their account.
- Everyone should be able to list all the directors on your platform.
- Input and response should be formatted in JSON.

Please budget yourself to no more than four hours.

Software Requirements

- Node.js v4.x.
- Git / Github. So we can clone your project from GitHub. Also, don't forget the README :)
- All the Node.js modules that you think are relevant for this exercise.
- Datastore: use Redis or MySQL.

Specifications

Don't hesitate to ask questions before starting work on this exercise. Our emails are listed at the beginning of this document.

Director object

Here are all the attributes of a director:

- `full_name` Must be the same as on the Livestream account.
- `favorite_camera` String, optional.
- `favorite_movies` Pick the data structure of your choice.

Create director endpoint

Everyone should be able to create an account. The user of your service will need to pass the Livestream account ID as a parameter. *Bonus points: two directors cannot have the same Livestream account.*

```
POST http://your_api_url/directors
{
  "livestream_id": "6488818"
}
```

Response:

```
{
  "livestream_id": "6488818",
  "full_name": "Steven Spielberg",
  "favorite_camera": "Sony F65",
  "favorite_movies": ...,
  ...
}
```

Update director endpoint

All the attributes related to the account on Livestream (`full_name`) are immutable, and your API cannot change them. Only the `favorite_camera` and `favorites_movies` can be modified.

Bonus points: in order to update a director's account, the user will have to authenticate itself with the following header: `Authorization: Bearer md5(FullNameOfTheAccountToModify)`.

Authorization: Bearer 1bef1e4f8ea440a6323f9d25a5b4bd1b

List directors endpoint

Everyone should be able to list the directors registered on your platform. All the attributes (full_name, favorite_camera, favorite_movies) for each director should be returned.

Livestream account API

Your API can access the data of an account by sending a GET request to:

<https://api.new.livestream.com/accounts/:id>

Points that we'll focus on

- Structure of the API.
- Structure of routes & middleware.
- Validation & sanitization of data.
- Error handling.
- Interactions w/ Livestream API.
- Representation & storage for director data.
- Documentation.
- Tests.