C1 - JS pool

C-DEV-115

Backend

Learn modern JavaScript

1.0

Backend

repository name: javascript03
repository rights: ramassage-tek
language: JavaScript

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FOREWORD

First, you learnt Javascript syntax by doing CLI exercices.

Then, you used Javascript from inside a web page in order to modify HTML elements.

Now, you will use Javascript to code Backend API with Node.JS and Express.JS in order to learn *modern* Javascript.

As seen during Kick-Off, Node.JS is a runtime environment that executes JavaScript code outside a web browser.

That makes Node.JS on par with PHP language. That's it. Node.JS itself doesn't provide anything for web-development.

You need to use library such a Express.js to do specific web-development. `https://expressjs.com`

PHP and any JavaScript library are forbidden

INSTALLING EXPRESS.JS

For each code environment, you always use a `package manager` :
- `apt` for ubuntu packages
- `composer` for PHP packages
- `npm` for javascript

When you installed Node.js, it had installed npm command too.
Create a empty folder

```
Terminal
~/C-DEV-115>
(mkdir js_backend && cd js_backend)
```

Installing express for this project

```
Terminal
~/C-DEV-115> npm install express --save
```

Step 1

With Express.js create an API based on the SQL database given to you.

Each route must return JSON only. No HTML allowed !

You must implements these routes :

1. `GET /api/movies` this returns only the 20 first movies entry with basic info

2. `GET /api/movies/{id}` this return full info about the movie with the specified id

3. `GET /api/movies/{id}/genres` this return the genre of the movie with the specified id

4. `GET /api/movies/{id}/producers` this return the producer of the movie with the specified id

```
npm install mysql
```

Step 2

From within a .html file, write javascript functions to perform HTTP requests to the backend.

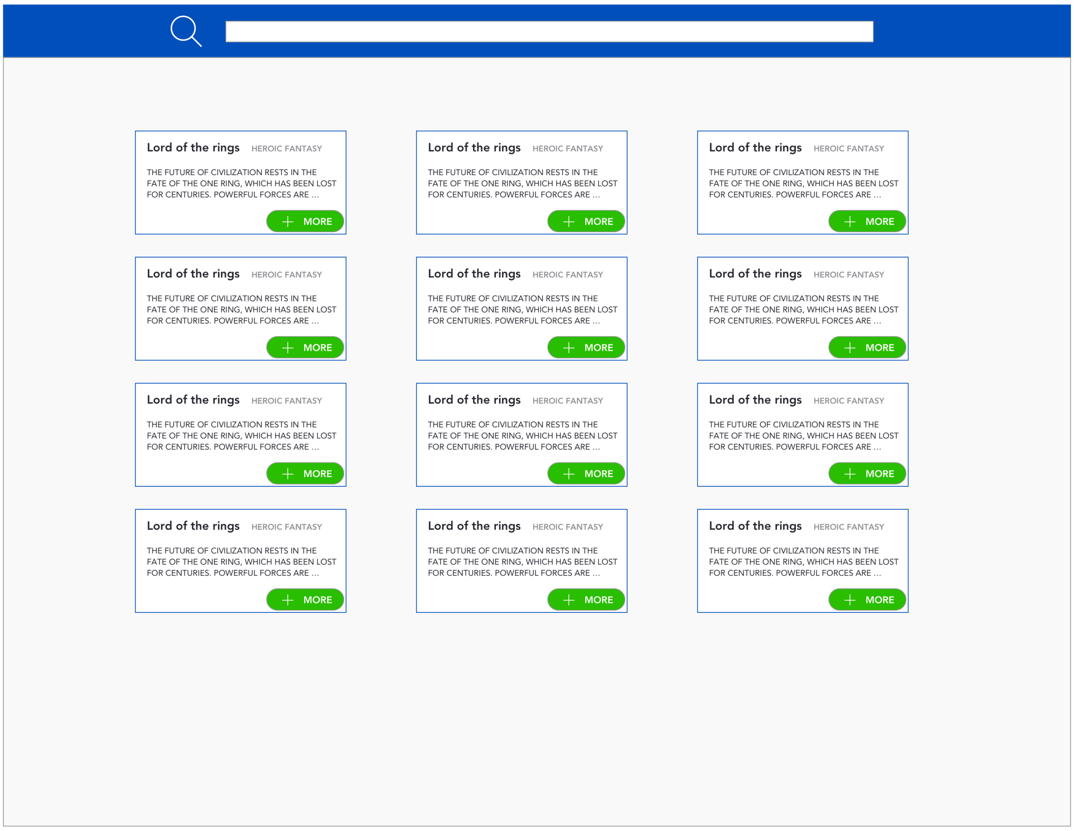
It is mandatory to use javascript's ES6 "Fetch" to do it. You can read this doc : `https://developers.google.com/web/updates/2015/03/introduction-to-fetch#fetch`

STEP 3

Write basic HTML to display these informations.

You can use any CSS framework (such as bootstrap) to have a better UI

When the user click on MORE from a movie tile, it opens a pop-up window with detailled informations about this movie.



Lord of the rings HEROIC FANTASY
THE FUTURE OF CIVILIZATION RESTS IN THE FATE OF THE ONE RING, WHICH HAS BEEN LOST FOR CENTURIES. POWERFUL FORCES ARE ...
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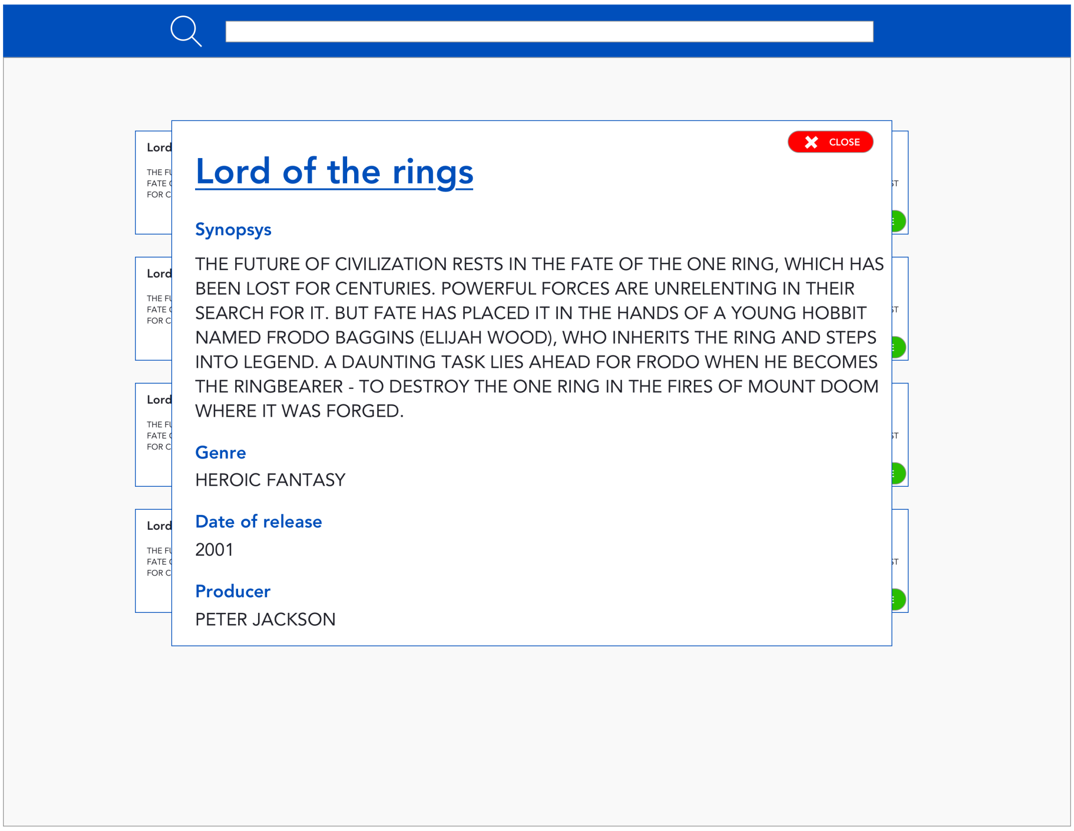


Lord of the rings

Synopsys

THE FUTURE OF CIVILIZATION RESTS IN THE FATE OF THE ONE RING, WHICH HAS BEEN LOST FOR CENTURIES. POWERFUL FORCES ARE UNRELENTING IN THEIR SEARCH FOR IT. BUT FATE HAS PLACED IT IN THE HANDS OF A YOUNG HOBBIT NAMED FRODO BAGGINS (ELIJAH WOOD), WHO INHERITS THE RING AND STEPS INTO LEGEND. A DAUNTING TASK LIES AHEAD FOR FRODO WHEN HE BECOMES THE RINGBEARER - TO DESTROY THE ONE RING IN THE FIRES OF MOUNT DOOM WHERE IT WAS FORGED.

Genre

HEROIC FANTASY

Date of release

2001

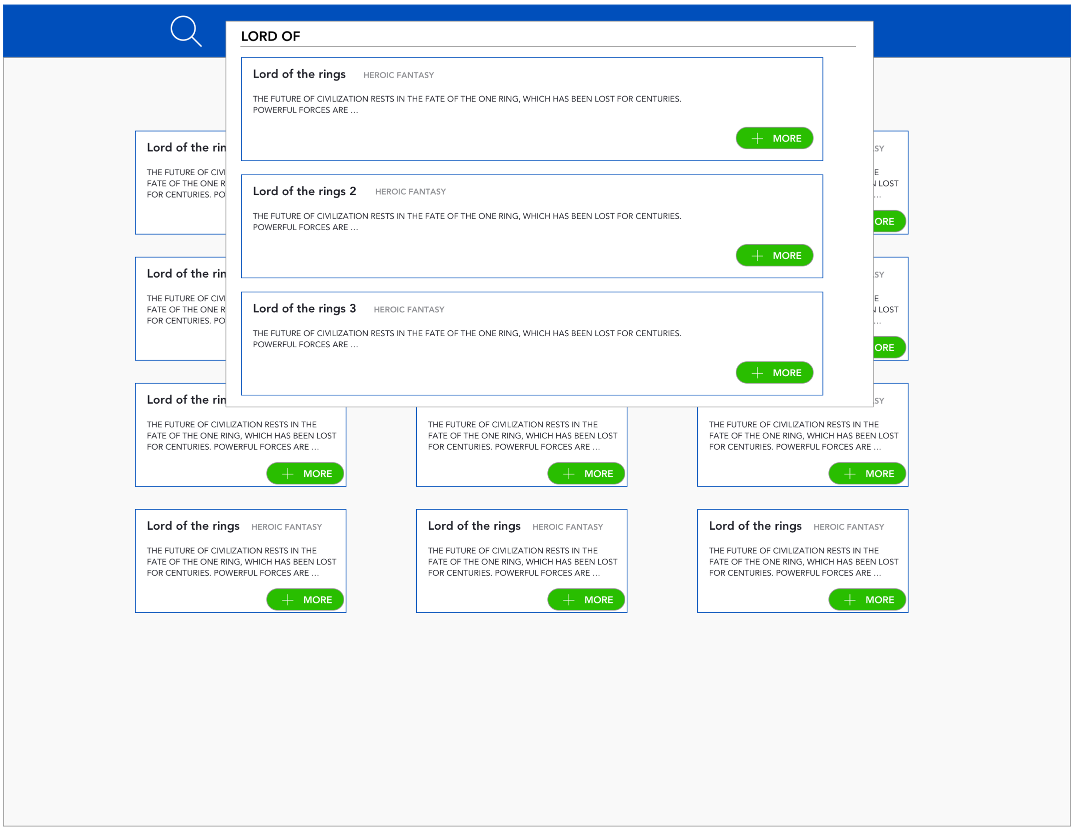
Producer

PETER JACKSON

Step 4

In the header of your HTML file, implement a search bar that displays the result without refreshing the web-page (such as http://www.allocine.fr).

It will display at most 10 results.



LORD OF

Lord of the rings HEROIC FANTASY

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＋ MORE

Lord of the rings 2 HEROIC FANTASY

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Lord of the rings 3 HEROIC FANTASY

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STEP 5 - BONUS

Implement a `infinite scroll` in the home page.