# LAB 06

# JavaScript & the DOM

1. Download the provided starter code from the LMS.
2. Inspect the code that is provided. Click on ctrl+shift+i to open the developer tools of chrome. Notice the data that has been logged into the console.

In the following, never modify the data.js file.

1. In the file lab06.js, create a function expression that accepts an employee object as argument and generates and returns a **tr node** using the DOM API (not string generation).

Use ***document.createElement(“tr”)*** to create a table row for example.

Use ***node.appendChild(newNode)*** to append a new node into an existing one.

1. Use the ***DOMContentLoaded*** event of the ***document*** object to create the DOM tree structure of the table into your page when the page is loaded.
2. Using javascript, add a CSS class wherever needed so that the even rows appear in grey (apply the grey class from styles.css).
3. Using javascript, add a border to your table and table cells (apply the border css class from styles.css).
4. When the document is loaded, the selection drop-down element is filled with all cities that appear in the data:

Hint: The Set data structure allows to have a collection of unique elements, in Javascript you can create a set from a given list or add elements to a new **set** :

const myList = [1,4,5,1,2,4,5,6,7];

const unique = [...new Set(myList)]; // unique will be [1, 4, 5, 2, 6, 7]

or const unique = new Set();

unique.add(e);

1. When the user selects a city and clicks on the search button, update the table with only employees from the given city.