

# IMY 220

## Practical 5:

### jQuery + AJAX

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Due: Friday 9 September @ 9:30

The submission instructions are available on ClickUP. Any deviation from these instructions will cause a 10% deduction from your mark.

#### Instructions

- Use jQuery's **AJAX** functions for loading some event details when clicking on a div. You will have to sequentially chain together two instances of asynchronous behaviour to accomplish everything that is asked in the spec.
- Download *index.html*, *events.json*, *events.html* from ClickUP. You are not allowed to edit these files except for *index.html* in order to add your own name in the meta-author tag and include jQuery and your own JS file.
- You must use a CDN (hosted) version of jQuery for this practical. Use the newest version.
- You must use **ES6** syntax, including arrow functions, object destructuring, and variable declarations, wherever appropriate. If you don't use the appropriate syntax, you will be penalised.
- You must use `.on()` for event handling and you must use the recommended syntax from the slides for adding new elements. Use the most appropriate keywords for declaring variables.
- This prac must be created in a **XAMPP** environment to avoid CORS errors.

#### Section 1: Load description and date

When the user clicks on one of the divs with the class `col-4`, the corresponding event description and date must be loaded into the div with an id of "event". Logically, this must be done in an onclick event handler. For example, if the user clicks on the event for "Picnic", the appropriate description and date from *events.html* must be loaded. You will notice that the ids in *events.html* correspond to the names of the event in *index.html* (the ids also correspond), and that is how you will need to load them in. You must also add the functionality that changes the background colour of the currently selected event to the colour "Aquamarine", and this can be done in the form of a function or any other method, you can also make use of the given internal CSS to get this to work. If done correctly it should look like this:

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Picnic	Hike	Festival
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2022/09/10

Going to the park to have a picnic with a few of my friends

Description and date must be loaded from the *events.html*, in other words, the contents of the div with an id of "description" and with an id of "date". The functionality for loading the different pages must be encapsulated as an ES6 Promise with an appropriate name, which must be defined outside the event handler for the clicking of the divs.

## Section 2: Load information

The JSON file *events.json* contains some additional information about all of the events. After the description and date of an event has been loaded, the corresponding information from this file must be displayed underneath the description in a bootstrap card. This must work as follows:

- The index of the div being clicked must be saved as a variable called *index*. In other words, if the div for "Picnic" is being clicked, *index* will have a value of 0, if "Hike" is clicked, *index* will be 1, etc.  
*HINT: there is an aptly named jQuery function for fetching the index of an element in its parent-hierarchy.*
- The correct information must then be loaded from *events.json*. The first array element in the file corresponds to the first event, etc. This will require you to pass the *index* value to the AJAX call.
- This functionality must also be encapsulated as an ES6 Promise, which must also be defined outside the event handler for the clicking of the divs.
- The information must then be displayed in a bootstrap card with the time, location and weather correctly indicated. Remember to always use the recommended syntax for adding new elements.

For example, if the div for "Hike" is clicked:

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Picnic	Hike	Festival
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2022/10/15  
Going hiking with a group of people from work

time: 8am - 4pm  
place: Drakensberg  
Weather: Cloudy

**Submit *ONLY* the following file(s) according to the submission instructions.**

- *index.html*
- *script.js*