IMY 220
Assignment 5:
jQuery + AJAX

Due: <mark>*Wednesday 14 September at 13:00.*</mark>

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

Instructions

- Use <mark>jQuery and JSON to create a simple event displaying website.</mark>
- Download *index.html* and *events.json* from ClickUP. The index page contains a single template event for your reference throughout the assignment – The event will have a title, description, date and 2 options for attending.
- <mark>You must include a CDN version of jQuer</mark>y and write all the code for this assignment inside a file called <mark>*script.js* w</mark>hich you must create and include inside *index.html*.
- You must use <mark>.on()</mark> for event handling and you must use the r<mark>ecommended syntax</mark> from the slides for adding new elements. Use the most appropriate keywords for declaring variables.
- Please use the r<mark>ecommended **ES6** syntax</mark> throughout this assignment (arrow functions etc.). Marks will be deducted if the recommended syntax isn't followed, more specifically if arrow functions aren't used, and if variables are declared incorrectly. Please also make use of **template strings** throughout the assignment.
- This assignment must be done in a **XAMPP** environment to avoid CORS errors.

Section 1 – Load events

Define a <mark>function called getEvents</mark> which must t<mark>ake a URL as its only parameter</mark> and <mark>returns a **Promise**.</mark> The <mark>Promise must use jQuery's getJSON</mark> function to <mark>load a JSON file which is specified by the URL</mark>-parameter. Also define a function called <mark>createEventCard</mark> which creates and returns a new set of elements for creating a Bootstrap card like that found inside *index.html*. (Hint: createEventCard should <mark>take the JSON array's events' title, description, date and attending variables as parameters, as well as the event number for the card</mark>).

Use getEvents and createEventCard to create a new Bootstrap card for each event inside *events.json* and display them on the page. The result of this should be that when a user loads the page, the new cards are added after the existing template event card.

Your final result should look like this:

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Event title

Description of event

2022/05/01
Will you be attending?

○ Yes
○ No

Picnic in the park

Going for a picnic in the park with my friends

2022/05/05
Will you be attending?

○ yes
○ no

One day roadtrip

Roadtrip with my friends to do some sight seeing

2022/05/09
Will you be attending?

○ yes
○ no

Rock Concert

Concert in the botanical gardens with rock artists performing

2022/03/12
Will you be attending?

○ yes
○ no

Section 2 – Sort events

Define a function called sortByDate which must take an array of JSON objects as its only parameter, sort the array according to date in ascending order and return the array. The template event card does not need to be sorted and may remain the first event card on the page.

Your final result should loo k like this:
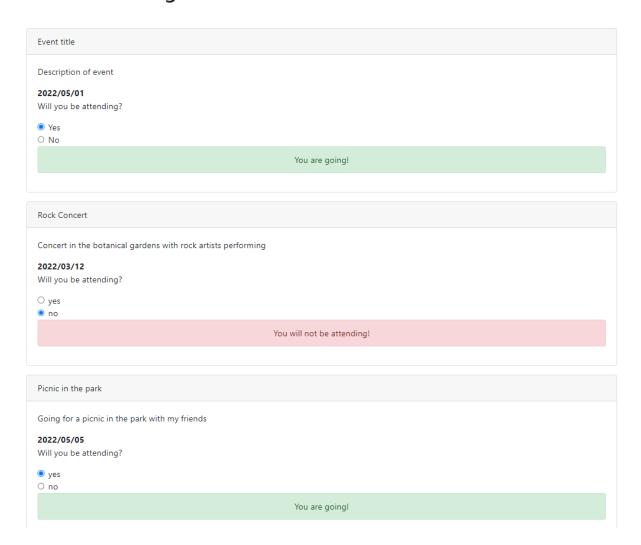
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Event title

Description of event

2022/05/01
Will you be attending?

○ Yes
○ No

Rock Concert

Concert in the botanical gardens with rock artists performing

2022/03/12
Will you be attending?

○ yes
○ no

Picnic in the park

Going for a picnic in the park with my friends

2022/05/05
Will you be attending?

○ yes
○ no

One day roadtrip

Roadtrip with my friends to do some sight seeing

2022/05/09
Will you be attending?

○ yes
○ no

Section 3 – Showing if a user will/won't attend

Attach an event handler to the appropriate element that will fire when the user selects an attending option. Use this to check if a user has selected if they are attending the event, and display in a bootstrap alert whether the person is going to the event or not. The user should be able to select a different option and be alerted without having to reload the page.

The result should look like this:

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Event title

Description of event

2022/05/01
Will you be attending?

◉ Yes
○ No

> You are going!

Rock Concert

Concert in the botanical gardens with rock artists performing

2022/03/12
Will you be attending?

○ yes
◉ no

> You will not be attending!

Picnic in the park

Going for a picnic in the park with my friends

2022/05/05
Will you be attending?

◉ yes
○ no

> You are going!

Bonus

Add functionality that dynamically adds the events from the *events.json* file when a user scrolls to the bottom of the page. This functionality simulates ==dynamic loading== and the result of this would be that new cards are dynamically added after the existing ones. For this you will have to change how the cards are loaded in. if done correctly the items in the JSON file will be replicated each time the bottom of the page is reached meaning you can infinitely scroll (Hint: you will need to make use of the ==async function== to get this to work).

Additional Information

- Refer to the slides and online resources for help

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

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