IMY 220
Assignment 4:
jQuery

Due: Wednesday 7 September at 13:00.

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

Instructions

- Use jQuery to add the functionality to be able to send messages using the provided form and embed an iframe if a YouTube link is detected.
- Download *index.html* from ClickUP. This file contains the markup for an input tag and a button that you will use to send a message. You will need to create and include a new file called *script.js* which will contain all the code for this assignment. You are not allowed to add any markup, such as classes or ids, to the code in *index.html*. You are however allowed to make some changes to the internal CSS that is provided.
- You must use .on() for event handling and you must use the recommended syntax from the slides for adding new elements.
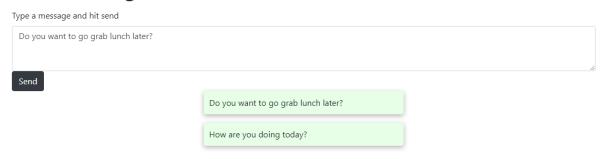
Section 1 – Adding a new message
Add the following functionality when the button with the class of "submit" is clicked:

- All your messages should be added to the div with the class of "messages" and "row".
- After doing this, you will need to add a new div element. This element must be added **on top** of the div with the class of "messages". prepend
- This newly added div must take up a third of the width of the row and it will also need an offset of a third of the width of the row. It must be rounded, and it must also have a bottom margin.
- The value of this div will be the value of the text area with the id of "message". If this value is empty, then a message should **NOT** be added.
- Also, side note: The CSS in the screenshot provided can be changed, but it can also be left as it was given. The CSS can be found in *index.html*.

If you did this correctly you will have the following result:

Send message

Type a message and hit send

> Do you want to go grab lunch later?

Send

> Do you want to go grab lunch later?

> How are you doing today?

In this screenshot, the message "Do you want to go grab lunch later?" was sent last.

Section 2 – Embedding an Iframe

For this part, you will need to add functionality that will detect a YouTube link. if a link to a youtube video is detected in your message, then an iframe needs to be generated with the video link. The following must happen:

- If a link is detected an iframe needs to be **appended** to your message. The Width of this iframe must be 100% (i.e., it fills up the entire column that it's in) and the height can be set as 315px.

- You **must** still be able to have text before and after the YouTube video link (like the screenshots below). I recommend using Regex for this, but any form of string manipulation can be used.

- **Please note** that you will need to run the assignment on a XAMPP environment (i.e., run it on localhost like with php) because of CORS errors.

- Hint: if you want to see the properties that are needed for an iframe, go onto a YouTube video and select share. You will see an option for "embed" and it will provide you with the code for an iframe.

If you've done all of this correctly, a message that contains a YouTube link will look like this:

Send message

Type a message and hit send

Hi please listen to this song https://www.youtube.com/watch?v=dQw4w9WgXcQ its really great

Send

Hi please listen to this song
https://www.youtube.com/watch?
v=dQw4w9WgXcQ its really great

Everything put together will look like this:

Send message

Type a message and hit send

Hi please listen to this song https://www.youtube.com/watch?v=dQw4w9WgXcQ its really great

Send

Hi please listen to this song
https://www.youtube.com/watch?
v=dQw4w9WgXcQ its really great

Do you want to go grab lunch later?

Hi. If you're feeling sad, please look at these dogs
with hats on https://www.youtube.com/watch?
v=1hpCkL_EELg

Bonus

If you got the assignment working, you will notice that you are only able to get one link to show up as an iframe at a time. Add functionality to be able to send multiple YouTube links in one message and get them to show up as iframes in the same message. These iframes should be added underneath each other.

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*