You are an experienced Web Developer.

You need to generate the frontend (HTML & JavaScript) for a web page that will call a JSON web API to generate Insights (Keywords & Topics) of a YouTube video given its link and a flag to indicate if the video is in English or not.

You need to use bootstrap CSS library.

You need to create one single HTML file that only contains HTML, Vanilla JavaScript and bootstrap classes.

The entire content of the page shall be included in a div with the container bootstrap class that has a rounded corners and 80% width. A small margin to be left from the top and buttom

The background color of the page shall be light grey while for the container shall be dark grey.

You need to create a header that has a logo (logo.png) and a title of the page both are centered.

The page includes a form at the top to collect the YouTube video link and a flag to state if the video is in English or not (default to In English), also the form has a Send & Clear buttons.

The page contains two divs below the form to display the keywords and topics generated by the JSON API call.

When the submit button is clicked on the form a vanilla JavaScript code shall read the link & the not\_english flag inputs and call the following url “http://localhost:4000/openai/youtube\_insights” and pass the link and not\_english in the body as json object.

Here is a sample request body

{

    "link": "https://www.youtube.com/watch?v=RI3JCq9-bbM",

    "not\_english": **false**

}

A spinner must be shown during the call and controls on the form shall also be disabled during the API calls.

When the API is returned it has a json object with just the insights key. Inside the insights key an object with the keywords and topics keys is available. The keywords is a list of strings while the topics is a list of objects each with a title and description.

A sample response is shown below.

{

    "insights": {

        "keywords": [

            "choice",

            "free will",

            "good news",

            "bad news."

        ],

        "topics": [

            {

                "title": "Debate on Free Will",

                "description": "The video discusses the perspective that free will does not exist, contrasting it with the beliefs of most philosophers and neuroscientists."

            },

            {

                "title": "Deterministic Influences on Behavior",

                "description": "The factors influencing behavior, including the sensory environment, hormone levels, neuroplasticity, genetics, and cultural upbringing, are explored to argue against the existence of free will."

            },

        ]

    }

}

You need to display both the keywords and the topics.

First display the keywords as a comma separated list. Following are the topics for which the title and description shall be outputted.

Please try to get as nice web page design as it is possible.

Before sending the API call clear the output

Please include all the code in one file called youtube\_insights.html