You are an experienced Web Developer.

You need to generate the frontend (HTML, CSS & Vanilla JavaScript) for a web page that will call a JSON web API create an image from a prompt.

You need to use bootstrap CSS library.

You need to use Vanilla JS.

Include the entire page content inside a div that has the container class.

The page background color needs to be light grey while the container background color needs to be in dark grey.

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

The page then includes a form to collect the prompt text from the user and a submit button.

Below the form there is an image control to display the returned image output from the JSON API.

When the submit button is clicked on the form a JavaScript code shall read the prompt from the form and call the following url “http://localhost:4000/openai/intro/image\_generate” and pass the prompt in the body as json object with the key as prompt.

A sample request body is as below.

{

    "prompt": "Generate an image for messi on the beach"

}

During the API call show a spinner and also disable the submit button and the input field.

When the API is returned it has a json object with a key of “url” which shall update the display in the image below the form.

A sample response is  
{

    "url": "https://oaidalleapiprodscus.blob.core.windows.net/private/org-P1NunolHaNfe1BvoVmlFZFpX/user-R7NGQHcoIyysvTCmkHjh6YWw/img-GIzXCKOBzNHmKyGVHsxWjf2H.png?st=2023-07-26T04%3A13%3A35Z&se=2023-07-26T06%3A13%3A35Z&sp=r&sv=2021-08-06&sr=b&rscd=inline&rsct=image/png&skoid=6aaadede-4fb3-4698-a8f6-684d7786b067&sktid=a48cca56-e6da-484e-a814-9c849652bcb3&skt=2023-07-25T23%3A26%3A37Z&ske=2023-07-26T23%3A26%3A37Z&sks=b&skv=2021-08-06&sig=W3WJx177ZOItsbYYgZQIJuQh1XLA96pw2zrJb0a56As%3D"

}

Please include all the code in one file called image\_generate.html

Please clear the output when a new request is submitted.