

Hi there and thank you for taking the time to complete a code challenge with us.
Good luck and we hope you will find it interesting!

Your task is to develop a single page application using Javascript/Typescript where users can upload a picture of a dog and see a gallery of pictures of dogs of the same breed. More specifically, the application should allow users to upload a picture and see it in a preview. The app should classify a dog present in the image based on their breed and display the result. Further, the application should showcase pictures of dogs of the same breed in a gallery below. The gallery should take all the available screen space and consist of lazy loaded images. The images that don't fit the current screen should be accessible with an "infinite scroll"-approach.

For image classification we suggest you use the pre-trained tensorflow.js-model available at:
<https://github.com/tensorflow/tfjs-models/tree/master/mobilenet>

For finding pictures of dogs based on their breed we suggest you refer to the following API:
<https://dog.ceo/dog-api/>

We will judge the assignment mainly based on completion of scope and code quality with an emphasis on the latter. Focus on supporting the latest browsers (we will test it in the latest version of chrome). An aesthetic design can help differentiate you from other candidates.

It's up to you to choose the stack between React and Vue, since this is a greenfield project, your decision will have a big impact for our future.

There are some non-functional requirements:

- Code should be tested
- Code pushed to a public Github
- Documentation: Please tell us which approach you have taken, which tools you have selected for your project etc..... and most importantly the reasons behind your decisions. There is no right or wrong when it comes to tool selection in this test.