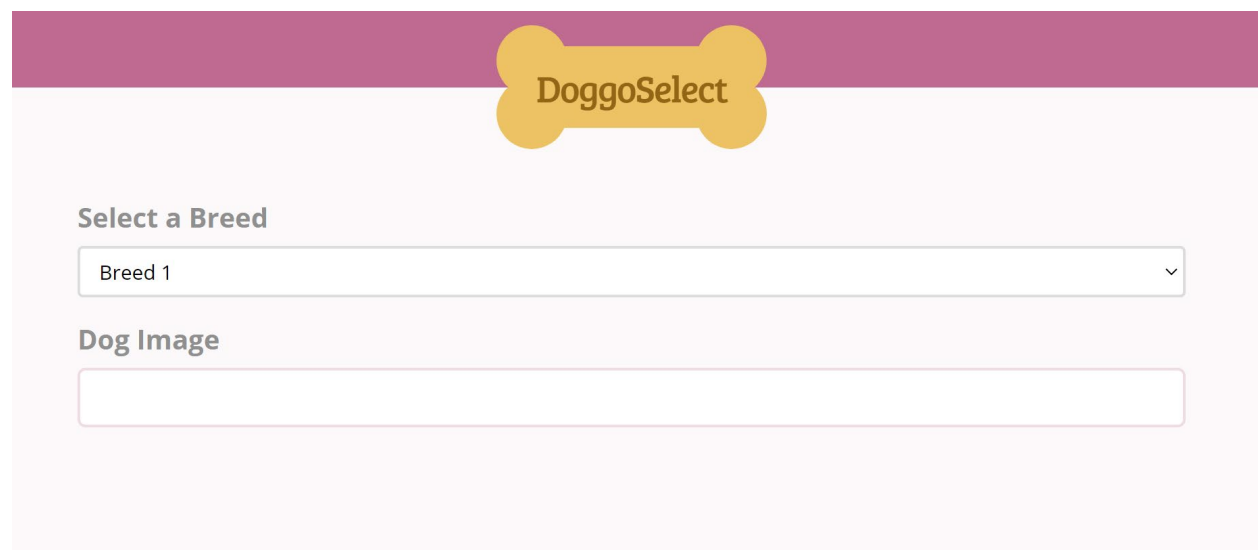**Midterm Exam**

Term: Summer 2021

Course: 3380-002

Q2

Question 2 – Using Public API (total 8 marks):

The purpose of this section is to use a Public API available at https://dog.ceo/dog-api/ where you can get images of different dogs. The images could be random or filtered by specific breeds. You can check the API endpoints at https://dog.ceo/dog-api/documentation/.

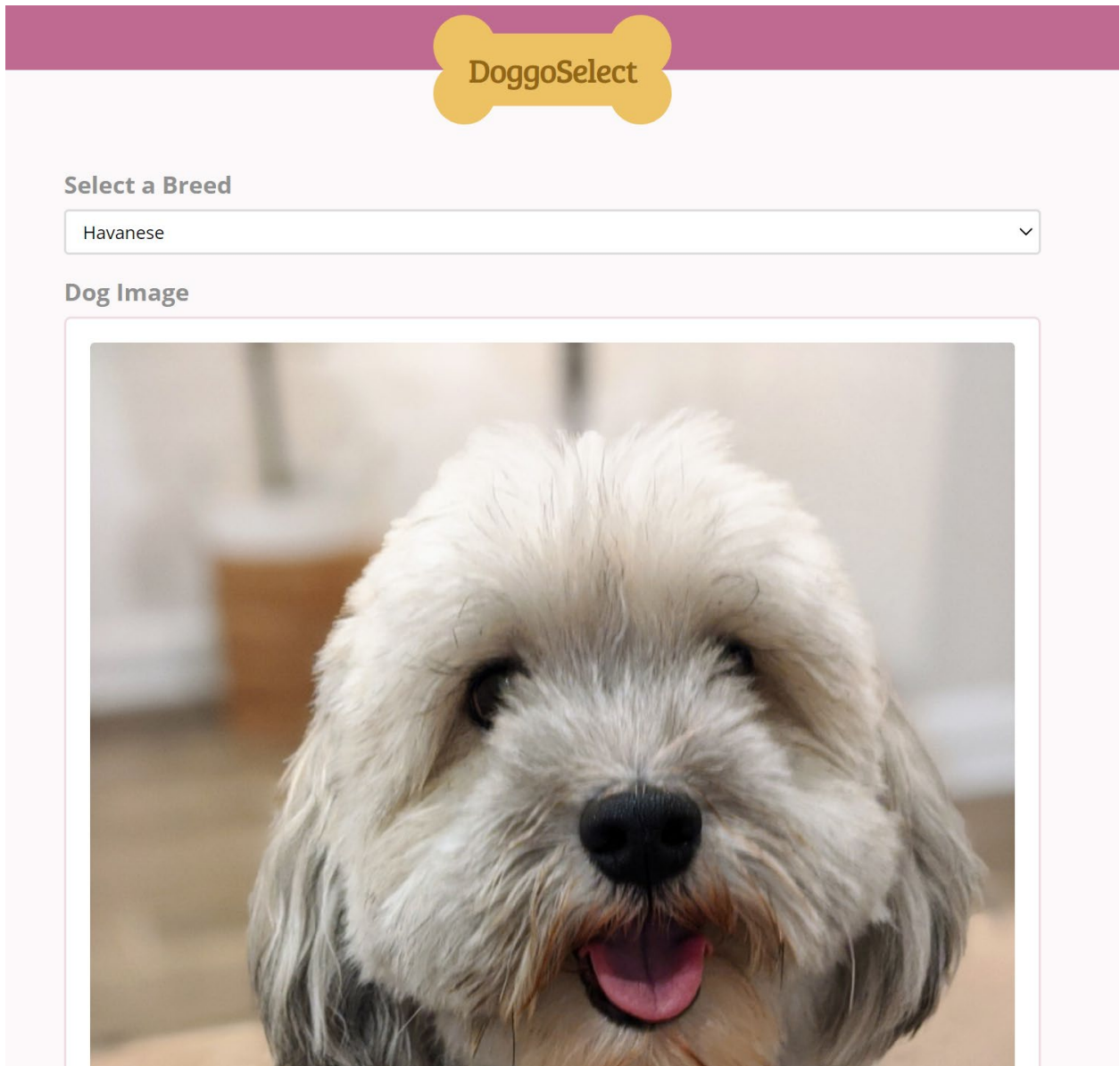You are given a start file that looks like:

You have the html, js, and css files. You do not need to change any of the contents in css and html file.

Your tasks:

There are three main tasks:

1- You are required to pull a random image and show it in the Dog Image box **(3 marks)**
   a. In this option you do not need to have a breed list or implement breed selection
2- Get the list of breeds from the API, populate the list as options in Select a Breed box **(2 marks)**
3- By selecting the Breed, generate a random image from that specific breed **(3 marks)**

Your Completed Page will look similar to the image below (with some other random images):

Some useful Hints:

To get this project done. You need to get a random image by an API call from

https://dog.ceo/api/breeds/image/random

get the JSON format of response and convert the corresponding property value to an image and attach it to **div.card**.

In order to add the breed list to the selecetion, you can get the list of breeds from:

https://dog.ceo/api/breeds/list

Write JS code to create the options and add it to **select.breeds**

You can get a random image for a specific breed from: (${breed} represents the name of the selected breed

https://dog.ceo/api/breed/${breed}/images/random

You also need to add an event listner to the "select" so by changing it refreshes the random image. Something like the code shown below:

```
// ----------------------------------------
//  EVENT LISTENERS
// ----------------------------------------
select.addEventListener('change', callbacktofetchrandomImage);
```