Mandatory Exercise 3 - JavaScript

The deadline for this exercise is Friday December 13 08:59

Preperation

- 1. Create a new repository on Github called mandatory-js-3
- 2. Follow the instructions that Github gives you; create a local repository and add a remote or clone the recently created repository.

Submission

When you do the submission of your exercise in Ping Pong, before the deadline, you will enter the link to your repository, such as:

https://github.com/mygithubusername/mandatory-js-3

The teacher will look in the master branch. If any commits are done to the master branch after the deadline, the grade IG will follow.

You will either get G or IG on the mandatory exercises.

Resources

https://dog.ceo/dog-api/documentation/

https://developer.mozilla.org/en-US/docs/Web/Guide/AJAX

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON

https://developer.mozilla.org/en-US/docs/Web/API/Window/location

Instructions

In this lab you're gonna build a single-page application (SPA). There should only exist a single html file in the project. You're gonna build an application for viewing images of dogs. You'll be making requests to the Dog API (https://dog.ceo/dog-api/documentation/). On the front page of the application, a table or list of some kind should list all the different breeds of dogs that can be viewed (see "List all breeds" in the documentation). Each breed should link to a new "page" where you'll list three random images of dogs using the "by breed" endpoint (see documentation for information). Each new page should have a proper navigation route, meaning after entering a breed page, a refresh of the site should navigate you to the same place. (Tips is to use the hash "#" property of window.location). Each breed site should have a list of all sub-breeds that exists (if any) for the breed. These should work similary to the breeds, linking to a seperate sub-breed site where both a list of images should be shown. Each breed and sub-breed site should also render the name of the breed we're looking at. On each site (index, breed, sub-breed), there should also exist three random images, and a button that refreshes these images. When under breed or sub-breed site, the random images should be of the breed or sub-breed.

To get the grade G the following needs to be implemented

- An index page which shows three random images of a dog of any breed, with a refresh button for the images. On the site there should also be a list of any kind that shows all the different breeds and each breed should link to a new sub-page.
- A breed page which shows three random images of a dog of the given breed, with a refresh button for the images. On the site there should also be a list of any kind that shows all the different sub-breeds (if any) and each sub-breed should link to a new sub-page. There also needs to be a text rendered on the site that identifies the breed we're looking at.
- A sub-breed page which shows three random images of a dog of the given sub-breed with a refresh button for the images. There also needs to be a text rendered on the site that identifies the sub-breed that we're looking at.
- Each page except the index page should have some kind of URL identifier that makes it possible for the correct breed or sub-breed to be shown. For example, if I try to navigate to http://mysite.com#breed-hound, the breed-page of the breed hound should be shown directly.
- There can only exist a single HTML file in the project that is directly rendered by the browser.