**AJAX**

**DEADLINE:** 14/10/2018

## FOLDER STRUCTURE

FL\_9\_6\_homework\_ajax/\*

   homework/\*

       src/\*

index.html\*

app.js\*

style.css\*

eslintrc.json\*

**TASK 1**

In this task you need to define an “http” object with “get” method.

The “http.get” method should take URL as input value and return a Promise, based on async XMLHttpRequest. The promise should resolve XMLHttpRequest response or reject XMLHttpRequest error.

**TASK 2**

In this task you need to create a webpage with button and two input fields. The inputs fields are using for entering latitude and longitude coordinates of some place and “Track” button to make a request.

Reuse your “http.get“ method from the previous task to retrieve a JSON from the following end point:

[https://api.onwater.io/api/v1/results/[lat],[lon](https://api.onwater.io/api/v1/results/%5blat%5d,%5blon)]

The response data has the following structure:

* lat: Float,
* lon: Float,
* water: Boolean

You need to determine if the point (latitude and longitude) is on water or land.

In case, the data has been fetched successfully, you need to display some animation depending on the response result. For example, if the coordinates are on the land - create animation A, in another case – create the animation B.

Loading animation must be shown during requests.

**PLEASE NOTE**

* The request animation, the animation after response (e.g. A, B), as well as design of the page, should be created on your own. There is no strict rule how it should look like. Be creative.

**RESTRICTIONS**

* Do not use fetch API in this homework, you should use XMLHttpRequest to define your own promise-based methods

**BEFORE SUBMIT**

* Remove all unnecessary files that you might have included by mistake
* Verify that all functionality is implemented according to requirements
* Add comments if the code is difficult to understand
* Fix warnings/errors in the browser console
* Verify that the name of the folders and files meet the requirements
* Make sure there are no errors/warnings in the browser console
* Run the linter and fix all warnings and errors
* Be creative

## SUBMIT

* The folder should be uploaded to github repository 'fl-9' into master branch

**USEFUL LINKS**

* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise>
* <https://developer.mozilla.org/en-US/docs/Web/API/XMLHttpRequest>
* <https://onwater.io/>