WEB222 - Assignment 4 [25 marks]

Due: Sunday, March 20, 2022 @ 23:59pm

Note: This is an individual Assignment.

Objective:

- Practice DOM programming.
- Publish webpages to Matrix account.

Specification:

1. For Assignment 4, you are provided a template including html, js, css, and other files as a zip file. Make a copy of your Assignment 3 work (website). Extract Assignment 4 files to your Assignment 3 workplace. (Copy of Assignment 3 stays untouched.) Leave the file structure as is. You will add a menu item "A4 DOM" to your Assignment 3 website menu (index.html), as follows:

Web Programming Assignment



Figure 1: Add menu item A4 DOM to A3 work

2. Click the menu item "A4 DOM" will open the page a4_dom.html

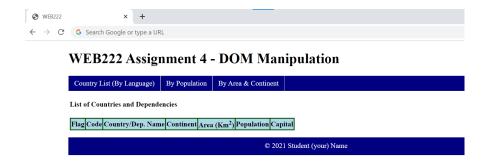


Figure 2: a4_dom.html screenshot

- 3. The main job of this assignment will be the following:
 - (1) In a4.zip, you will find a4_dom.html, which shows figure 2.
 - (2) Put your name for the footer "copyright 2021 Student (your) Name.
 - (3) In a4.zip, you will find a4.js under the directory ./js. Referring to the following screenshots, implement the tasks as instructed in a4.js.

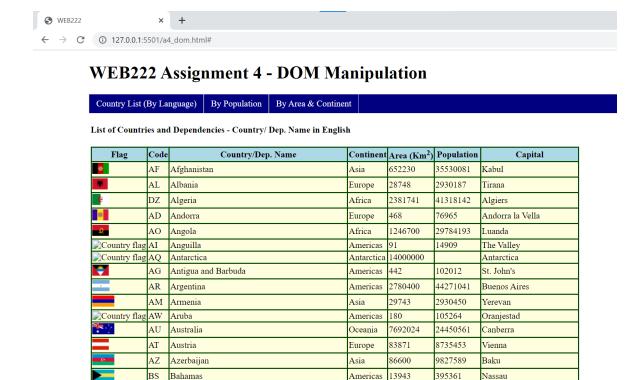


Figure 3: result after clicking menu item "Country List (By Language) -> English". Note the heading above the table, shows: List of Countries ..., in English. If click other language, it will change correspondingly. See Figure 4.



Figure 4: result after clicking menu item "Country List (By Language) -> Chinese". Note the heading above the table, shows: List of Countries ..., in Chinese. If click other language, it will change correspondingly.

Asia

Asia

Americas

Oceania

7692024

Yerevan

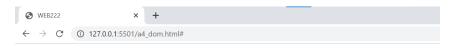
Oranjestad

Canberra

Baku

24450561

9827589



g AW 阿鲁巴

AU 澳大利亚

AT 奥地利 AZ 阿塞拜疆

WEB222 Assignment 4 - DOM Manipulation

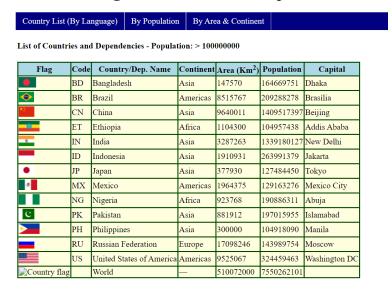


Figure 5: result after clicking menu item "By Population > 100,000,000".



WEB222 Assignment 4 - DOM Manipulation

Country List (By Language)		nguage)	By Population	By Area & Continent			
List of Countries and Dependencies -1 million Km, Americas							
Flag	Code	Cour	try/Dep. Name	Continent	Area (Km²)	Population	Capital
•	AR	Argentina		Americas	2780400	44271041	Buenos Aires
	во	Bolivia (Plurinational State of)		f) Americas	1098581	11051600	La Paz
♦	BR	Brazil		Americas	8515767	209288278	Brasília
+	CA	Canada		Americas	9984670	36624199	Ottawa
	СО	Colombia		Americas	1141748	49065615	Bogotá
Country flag	GL	Greenland	I	Americas	2166086	56480	Nuuk
ø 💮	MX	Mexico		Americas	1964375	129163276	Mexico City
	PE	Peru		Americas	1285216	32165485	Lima
	US	United St	ates of America	Americas	9525067	324459463	Washington DC
				•	•	•	•
© 2021 Student (your) Name							

Figure 6: result after clicking menu item "By Area & Continent -> 1 million Km, Americas"

(4) In summary:

Complete the code in a4_src/js/a4.js to make the table and menus interactive:

- add functionality to all of the stubbed-out functions/methods based on comments in the code.
- make it possible to click on any of the menu items and have the table's contents update to show the requested data. The table takes the following form:
- Flag an with the flag for the country. All flag images are located in src/flags/ and named according to the country code.
- Code a string with the country's code

- Country/Dep. Name a string with the name of the country. This will either be in English, or whatever language the user requests.
- Continent a string with the continent for this country
- Area (Km2) a number with the area in square km
- Population a number with the population of the country
- Capital a string with the name of the country's capital

All country data comes from a4_src/js/countries-data.js (see this file for format details). The complete array of countries is available via countries.all in a4_src/js/a4.js.

Note:

Re-clarification of the logic and steps:

- 1. When you work locally, you make a copy of A3 and add A4 work there. The point is to keep a copy of A3 untouched.
- 2. When you copy/ upload A4 to matrix, you can only upload A4 work (a4_dom.html, js, flags, css folders etc) to the existing A3, since your website has the same home page and the structure (index.html, list.html, and other pages).
- 3. You only need to add the link to a4_dom.html from home page (index.html) menu and won't change anything else of A3 work. So A3 will work as before no matter how A4 works.

```
<a href="a4">dom.html">A4 DOM </a>
```

4. As for A4, you copy the files and folders to matrix as the same structure as the right-side screenshot.

Submission:

You do not need explicitly submit the work. Leave it on Matrix account, which will be checked after due date. **DO NOT need to email me or submit to blackboard**.

Late submission:

10% penalty of the assignment each day, up to 5 school days. It will not be accepted after 5 school days late and will be marked zero for this assignment.

