

# WEB222 - Assignment 4 [25 marks]

Due: Monday, Nov 14, 2021 @ 23:59pm

**Note:** This is an individual Assignment.

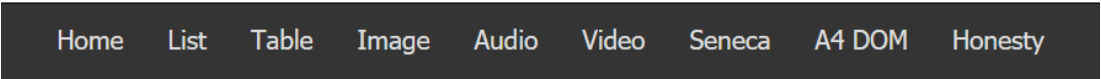
## Objective:

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

## Specification:

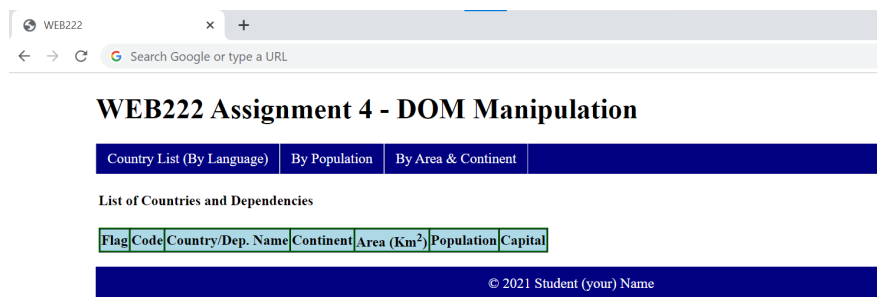
1. For Assignment 4, you are provided a template including html, js, css, and other files as a zip file. Make a copy of your Assignment 3 work (website). Extract Assignment 4 files to your Assignment 3 workplace. (Copy of Assignment 3 stays untouched.) Leave the file structure as is. You will add a menu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

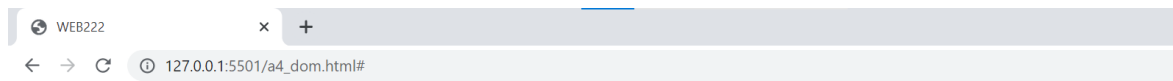
2. Click the menu item “A4 DOM” will open the page a4\_dom.html



*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.



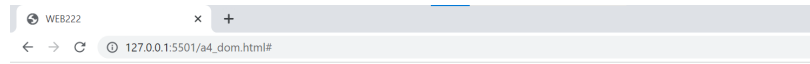
## WEB222 Assignment 4 - DOM Manipulation

Country List (By Language)	By Population	By Area & Continent
----------------------------	---------------	---------------------





List of Countries and Dependencies - Country/ Dep. Name in English

Flag	Code	Country/Dep. Name	Continent	Area (Km <sup>2</sup> )	Population	Capital
	AF	Afghanistan	Asia	652230	35530081	Kabul
	AL	Albania	Europe	28748	2930187	Tirana
	DZ	Algeria	Africa	2381741	41318142	Algiers
	AD	Andorra	Europe	468	76965	Andorra la Vella
	AO	Angola	Africa	1246700	29784193	Luanda
	AI	Anguilla	Americas	91	14909	The Valley
	AQ	Antarctica	Antarctica	14000000		Antarctica
	AG	Antigua and Barbuda	Americas	442	102012	St. John's
	AR	Argentina	Americas	2780400	44271041	Buenos Aires
	AM	Armenia	Asia	29743	2930450	Yerevan
	AW	Aruba	Americas	180	105264	Oranjestad
	AU	Australia	Oceania	7692024	24450561	Canberra
	AT	Austria	Europe	83871	8735453	Vienna
	AZ	Azerbaijan	Asia	86600	9827589	Baku
	BS	Bahamas	Americas	13943	395361	Nassau

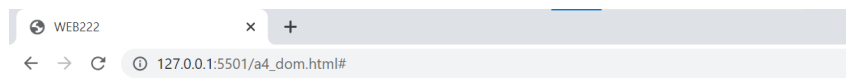
**Figure 3:** result after clicking menu item “Country List (By Language) -> English”. Note the heading above the table, shows: List of Countries ..., in English. If click other language, it will change correspondingly. See Figure 4.













## WEB222 Assignment 4 - DOM Manipulation

Country List (By Language)		By Population	By Area & Continent			
English	Dependencies - Country/ Dep. Name in Chinese					
Arabic						
中文 (Chinese)	Country/Dep. Name	Continent	Area (Km <sup>2</sup> )	Population	Capital	
French	阿富汗	Asia	652230	35530081	Kabul	
	阿尔巴尼亚	Europe	28748	2930187	Tirana	
Hindi	阿尔及利亚	Africa	2381741	41318142	Algiers	
Korean	安道尔	Europe	468	76965	Andorra la Vella	
Japanese	安哥拉	Africa	1246700	29784193	Luanda	
	安圭拉	Americas	91	14909	The Valley	
Russian	南极洲	Antarctica	14000000		Antarctica	
	AG 安提瓜和巴布达	Americas	442	102012	St. John's	
	AR 阿根廷	Americas	2780400	44271041	Buenos Aires	
	AM 亚美尼亚	Asia	29743	2930450	Yerevan	
	AW 阿鲁巴	Americas	180	105264	Oranjestad	
	AU 澳大利亚	Oceania	7692024	24450561	Canberra	
	AT 奥地利	Europe	83871	8735453	Vienna	
	AZ 阿塞拜疆	Asia	86600	9827589	Baku	

**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.












## WEB222 Assignment 4 - DOM Manipulation

Country List (By Language)		By Population	By Area & Continent			
List of Countries and Dependencies - Population: > 100000000						
Flag	Code	Country/Dep. Name	Continent	Area (Km <sup>2</sup> )	Population	Capital
	BD	Bangladesh	Asia	147570	164669751	Dhaka
	BR	Brazil	Americas	8515767	209288278	Brasília
	CN	China	Asia	9640011	1409517397	Beijing
	ET	Ethiopia	Africa	1104300	104957438	Addis Ababa
	IN	India	Asia	3287263	1339180127	New Delhi
	ID	Indonesia	Asia	1910931	263991379	Jakarta
	JP	Japan	Asia	377930	127484450	Tokyo
	MX	Mexico	Americas	1964375	129163276	Mexico City
	NG	Nigeria	Africa	923768	190886311	Abuja
	PK	Pakistan	Asia	881912	197015955	Islamabad
	PH	Philippines	Asia	300000	104918090	Manila
	RU	Russian Federation	Europe	17098246	143989754	Moscow
	US	United States of America	Americas	9525067	324459463	Washington DC
	World	World	—	510072000	7550262101	

**Figure 5:** result after clicking menu item “By Population .... > 100,000,000”.

## WEB222 Assignment 4 - DOM Manipulation

Country List (By Language) By Population By Area & Continent						
List of Countries and Dependencies -1 million Km, Americas						
Flag	Code	Country/Dep. Name	Continent	Area (Km <sup>2</sup> )	Population	Capital
	AR	Argentina	Americas	2780400	44271041	Buenos Aires
	BO	Bolivia (Plurinational State of)	Americas	1098581	11051600	La Paz
	BR	Brazil	Americas	8515767	209288278	Brasília
	CA	Canada	Americas	9984670	36624199	Ottawa
	CO	Colombia	Americas	1141748	49065615	Bogotá
	GL	Greenland	Americas	2166086	56480	Nuuk
	MX	Mexico	Americas	1964375	129163276	Mexico City
	PE	Peru	Americas	1285216	32165485	Lima
	US	United States 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 <img> 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

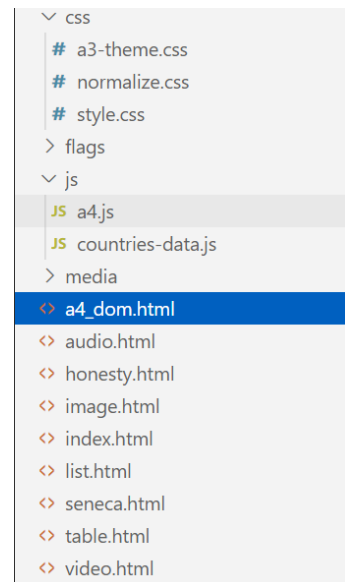
All country data comes from `a4_src/js/countries-data.js` (see this file for format details). The complete array of countries is available via `countries.all` in `a4_src/js/a4.js`.

### 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.  

```
<li> <a href="a4_dom.html">A4 DOM </a> </li>
```
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.