Project 6

The purpose of project 6 is for you to design a webpage that uses controls such as radio buttons, text boxes, etc. When the page loads, it should show a list of all 50 states (a Project6.html file is provided for you so that you don't have to type all the names). The page should have the controls shown below:

Louisiana Ma Mexico New Y	aine Maryland Ma	ssachusetts Michigan N a North Dakota Ohio O	Minnesota Mississippi N	Missouri Montana Neb nsylvania Rhode Island	waii Idaho Illinois Indiana Iowa Kansa raska Nevada New Hampshire New 3 d South Carolina South Dakota Tenno Wyoming	Jersey New
Controls						
	• 20px • 25px • 30px	Font: Arial	upda	Minimum Length Maximum Length te	■ Exclude words with 'A' ■ Exclude words with 'E' ■ Exclude words with 'O'	

Note: The background color is not important (pick whatever you like). The Font drop down box has the options of Arial (shown), Times New Roman (not shown), and Courier New (not shown).

The main idea is that the user can pick any font, font size, filter of min and max length, and filters of no A, no E, and/or no O and the list that will display will satisfy all the selections. The default when the page loads is 20px and in Arial font. This is why the list appears the way it does.

Below is a sample selection to help you understand how it should work. Your page should work with any combination of user input and correctly show a list of states that satisfy all the conditions.

Idaho Illi Minnesota New York	nois Indiana Mississippi North Card	a Iowa Kansas Missouri Monta olina North Dak	Kentucky Louisiana ana Nebraska Neva ota Ohio Oklahoma	a Maine Ma ada New Ha a Oregon P	: Delaware Florida Georgia Hav ryland Massachusetts Michiga ampshire New Jersey New Mez ennsylvania Rhode Island Sou ashington West Virginia Wiscon	n xico th
Controls						
	• 20px • 25px • 30px	Font: Arial		mum Length imum Length	 Exclude words with 'A' Exclude words with 'E' Exclude words with 'O' 	

Note: All that happened here was the font size increased as soon as I selected 30px. This is a radio button, so only one font size can be active at a time.

Florida Geor Louisiana Mai: Missouri Montan York North Card Island South Ca	rgia Hawaii Idah ne Maryland Masa na Nebraska Neva olina North Dako	o Illinois Ind sachusetts Mich da New Hampshi ota Ohio Oklaho kota Tennessee	olorado Connectic iana Iowa Kansas nigan Minnesota M: re New Jersey New ma Oregon Pennsyl Texas Utah Vermo onsin Wyoming	Kentucky ississippi Mexico New vania Rhode
• 20px • 25px • 30px	Font: Courier New	Minimum Le Maximum Le update	Evaluala wayala with	'E'

Note: I used the drop down box to select Courier New. Notice the font changed as soon as I made the new selection.

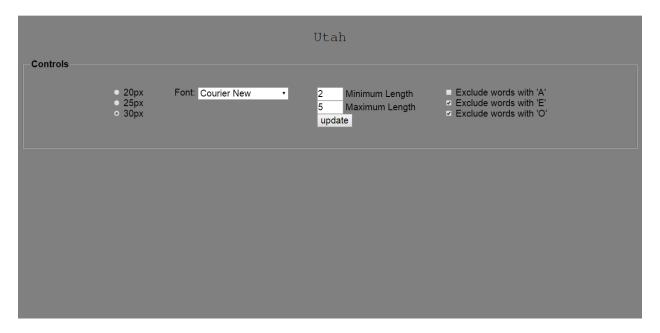
		Idaho Io	wa Maine Ohio Texa:	s Utah	
Controls	• 20px • 25px • 30px	Font: Courier New	▼ 2 Minimum Length 5 Maximum Length update		

Note: Up to this point, no filters have been applied and that is why all 50 states showed up. After entering 2 and 5 in the min and max text box <u>and</u> clicking the update button, only states that have a min of 2 characters and a max of 5 characters show up. To make the coding easier you can assume that we will always enter two numbers in the min and max box and immediately click the update button once after entering the numbers. Therefore, you don't have to worry about what will happen if one or both of the numbers are missing when update is clicked, what if numbers are entered and the button is not clicked, or what to do in situations when the min > max.

If at this point, I was to change the font size or the font, the list would be the same six states but the appearance would change to reflect my selection (i.e. different font size or font).

		Id	aho Iowa (Ohio Utah		
Controls	• 20px • 25px • 30px	Font: Courier New		Minimum Length Maximum Length te	Exclude words with 'A' Exclude words with 'E' Exclude words with 'O'	

Note: All that happened here was I just clicked on the Exclude words with `E' checkbox (I did not have to click the update button) to get the new list. The list is now missing Maine and Texas (they both have an e). Don't forget the big picture, which is that the list is displayed exactly according to all of my selections at this time (Font size of 30px, Courier New, min of 2 and max of 5 characters, and no letter E).



Note: I clicked on the Exclude words with 'O' checkbox, while keeping the check on the Exclude words with 'E'. Now only Utah shows up. What would happen if I click on Exclude words with 'A'? You guessed it, nothing should show up.

	Alabama	Alaska	Arkansas		Indiana Virginia		Maryland	Michigan	Utah
Со	ntrols	© 20px	Font: Courier Ne	eW •	2 Mini	num Length	□ Exclude w		
		• 25px • 30px			10 Max update	mum Length			

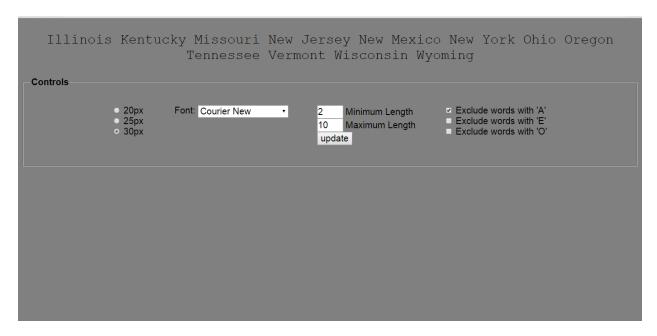
Note: I changed the max text box from 5 to 10 and after clicking the update button, the new list shows up. Note how all criteria are satisfied. The list showing up is 30px, Courier New, and only has states with names that have no fewer letters than 2 but no more than 10. What will happen if now I click on the Exclude words with A?

Controls	• 20px • 25px • 30px	Font: Courier New	2 Minimum Length 10 Maximum Length update	Exclude words with 'A' Exclude words with 'E' Exclude words with 'O'

Note: Nothing shows up now! There are no states missing a, e and o with 2 to 10 letters.

		Kentucky	y New	Jersey Tenness	ee
Controls	• 20px • 25px • 30px	Font: Courier New	•	2 Minimum Length 10 Maximum Length update	 ✓ Exclude words with 'A' ✓ Exclude words with 'E' ✓ Exclude words with 'O'

Note: I unchecked Exclude words with 'E'. Now I have the list shown above.



Note: I unchecked Exclude words with 'O'. Now I have the list shown above, notice none of them have an A. How can we get just Maryland to show up? Well it has no e and no o and 8 letters. Let us try that!

	Arkansas Maryland Michigan Virginia						
Controls	20px • 25px • 30px	Font: Times New Roman ▼	8 Minimum Length 8 Maximum Length update	■ Exclude words with 'A' Exclude words with 'E' Exclude words with 'O'			

Note: The order does not matter, but to get the list above: you need to check the Exclude words with 'E', Exclude words with 'O', and make sure both min and max are 8 (click update as soon as you change them). Just for fun, I also changed the font and the font size. After doing all of that the list appears as shown above. Based on what we have available as filters, it is not possible to get only Maryland to show up.

As with your previous project, this is an event driven webpage. There is no "end". You need to code for the onchange event of the radio buttons, the drop down box, and the checkboxes, and the onclick for the update button. Make good use of functions (you can use any built-in string or array method) and comment your code. Make sure it appears like the sample shown in this document. It should not be case sensitive, so that means Exclude words with 'A' will not allow a state to show up whether it has an A or an a. You cannot make the project easier by altering my Project6.html file to have all the states be in all caps or all lower case. It should only have the first letter capitalized. For example, Maryland....not maryland or MARYLAND. Place your CSS in a separate file and have the HTML and JavaScript in one file. Make sure your name is in the file name, example: SmithJohnProject6.html.