

Project 1: Interactive Form Elements

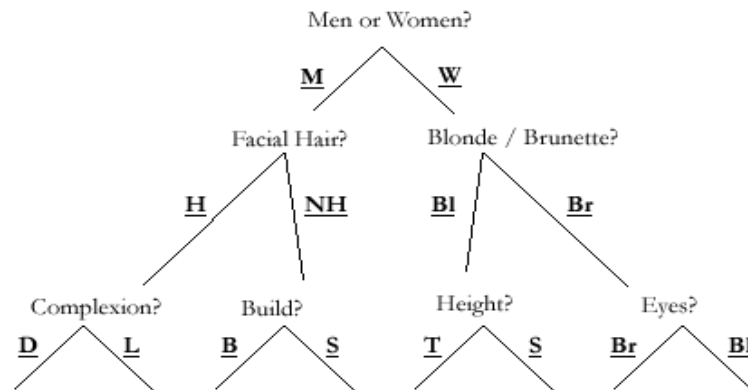
For this project, you will make a web page that contains a form using a select pull-down element. Once the user selects the desired option, your script will dynamically create another pull-down element whose contents will depend upon the visitor's first choice...

In other words – I would start with the first option being coded in html. When the user makes a choice, another option menu appears dynamically that contains choices that are directly related to the answer of the first choice. Once the user makes a second choice, the third option menu will appear with new choices that are dependant upon the second choice (and, of course, on the first choice...). Once the user has made 3 different choices, you will create a new text node and dynamically print out their choices out to the screen.

After getting that to work – you need to make the first option/select menu NOT be hard coded in html. I am looking for one function to create each of the dropdowns, the content of the select/option should be dependent upon what data is sent to the function.

Requirements

- Dynamically creating form elements depending upon the answer of the last question
 - The form elements for the questionnaire MUST be <select><option> elements
- At least 2 choices for each selection
- At least a depth of 3 different questions (if you make yours so that it can create x number of dropdowns, then the depth can be 2 for some and 4 or 5 for others!)
- Topic is up to you – but you can use my “find-a-date” example below! (be creative!)



Finally, Print out choices to the screen!

- Once the user has made their selections, (at least) create a new node to print out their final choices to the screen (Ex: You want a man with facial hair of slight build! That is minimal – do more to do better!)
 - Also add a form on the page getting the users information (must have JS validation!)
- Give the user the option to start over at any time!
- The use of Cookies & localStorage (possibly to hold the user information in the form?)
 - Yes – it says BOTH cookies and localStorage – your project must work in all browsers (remember that cookies can be turned off, so if they aren't there, use localStorage?)
- I also want you to re-direct all browsers that this doesn't work on to another page, asking them to download a browser that would work! (see **Final Note**)

- Looks!!! (Professional looking, quality graphics, etc.)
- **DUE DATE: Sunday October 8th @ midnight (drop box in myCourses)**
 - **Zip up entire project (file structure intact!) in a folder with your last name**

Programming requirements

- Dynamic creation of at least 3 sets of <select><option>value... nodes
- Constructor method that creates the next select menu from the last choice
- Use of the following Commands (among many others):
 - createElement, setAttribute, appendChild, getElementById, getElementsByTagName, createTextNode, nodeValue to name a few...
- Do NOT use visibility to show/hide the selections – I want them dynamically created!
- Some use of requestAnimationFrame() for animation
- No layout with tables! Everything done with CSS
- No use of innerHTML! (None at all, I will search for it and hit you hard)
- Include comments in the code to clearly explain functionality.
- Re-direction of non-modern browsers to a legacy page.

Grading

An excellent project (worthy of an A) will have everything I'm asking for here, plus something extra - evidence that you intend to excel. Perhaps it explores an area we didn't cover in detail in class or would merit me recommending you to a client who needed similar work done on a multimedia project.

To do better...

- Good, reusable code – data from an AJAX/Fetch call pulling in JSON or XML
- Scalability (is your constructor generic enough for me to have more than 3 choices if I change your data? Did you prove it by giving me 2 data sets that both work?)
- Extend Functionality
- High Level of Technical Development
- Does your code work in older versions?
- Surprise me...

Final Note

I expect it to work on:

- **Mac – FF, Chrome, Edge and Safari**
- **PC – FF, Chrome, Edge**