QuizMe Work Notes

7/30/2021 - Setting up the tabbed menu on which to select which quiz to do.

problem - I tried using css to style a tab specifically when active, but active only refers to the current state, so as soon as I am no longer clicking the styling goes away.

solution - Using javascript to toggle class changes on click.

problem - I am trying t figure out how to add an event listener to all tabs that will add a class that gives the appropriate styling for while it is active. I am having a hard time figuring out how to add an event listener to all of them that only activates when one is.

solution - I ended up using a for of loop, and in the first part of the loop I check to see if any tabs have the active class, if so, remove it, then I toggle the active tab class for the tab that was clicked. It seems to work fine.

problem - I need to figure out how to dock the section tabs so that when the window changes size the tabs stay attached to the top of the div.

solution - By putting all tabs in a container I was able to style that container with absolute positioning to keep them docked to the top of the div as well as use flex display to arrange the different tabs.

problem - setting min-height to a percent doesn’t work

solution - setting a set px value for min-height keeps the space occupied.

problem - Setting the initial position of tabs to be behind the main div, so that when selected they can be in front of the main div

solution - I set up the tab div to be flush with the top border of the quizzes div and then added border bottom again. Then made the selected class remove the bottom border so it looks like it’s in front. I decided to do it this way rather than separate the tabs div because I think positioning would have been more complicated.

problem - setting up event listeners that triggered other elements to show or hide on click. At first the problem was I was trying to use this, but this refers to the element that was clicked. I was then trying to use the listener on tabs that I hadn’t assigned to the listener and thought they weren’t working… and then I had issues getting code to work that I thought would work because I did not have correct names identifying the elements I wanted to change.

solution - I set up two separate functions, one to hide all div contents first, and the second to show div contents. In the div to show div contents I used an argument so I could specify which div to be used while writing the event listener. I also ended up writing out a function specific to each event listener so I could write the other two events separately and thus include the argument for the second event.

problem - When I set up events in my event listeners they were firing right away because they had their parenthesis executors.

solution - leave off the parenthesis in an event listener callback so that it only executes when the listener is activated.

8/1/2021

problem - code for populating the quiz container felt messy and repetitive.

solution - moved all query selectors to arrays then created a loop to add event listeners to the tabs and quizzes in the arrays.

8/3/2021

problem - how to randomize questions when populating quiz containers

solutions - I ended up using an existing algorithm called the Durstenfeld shuffle. I first attempted to randomize using the sort array prototype method but was unsuccessful.

problem - When the page size was reduced tabs extended pasted the quizzes container and the text was too long to be displayed correctly.

solution - added a media query to change tab size at the appropriate time. Changed tab titles to shorthand options but added titles to the html tags so as to remain clear what each tab was referring to.