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## GPA Calculator Assignment

Web Page Setup (including Bootstrap)

* Looks good, overall
* You did not put your name(s) into the giant box at the top of the page (-5)
* You need to add in the <meta charset="utf-8"> element (-2)
* You need to add in the <meta name="viewport" content="width=device-width, initial-scale=1"> element (-2)
* You don't use Bootstrap at all (-20)  
  You can tell because the font on the page is Times New Roman (instead of that sans serif font the Bootstrap defaults to)

jQuery and JavaScript:

* Looks good, overall
* You did not add support for jQuery to the file (-40)
* You’ve added support of jQuery but you’re not actually using jQuery (-10)
* You're including jQuery twice (once in the Bootstrap section, and then again for jQuery). You only need to include it once (-5)
* You need to set up the event handlers using jQuery (i.e., within a $(document).ready, set up each event handler using jQuery) (-10)
* You did not put your JavaScript into a separate file. (-10)
* Put all of your JavaScript into a separate file. (-5)  
  This includes the $(document).ready(…) code
* Your formatting is inconsistent. Please go back and reformat your JavaScript using the rule that you should only put in blank lines if you’re trying to separate two conceptually different blocks of code, and that you should keep everything at the same level of indentation until you reach a { (or a single-line if, etc) at which point you should move rightwards by 1 tab stop (and then keep using that new, “deeper” level of indentation until you reach the matching }).  
  If Brackets doesn’t do this for you then I’m sure you can find a website that will. (-5)

jQuery and JavaScript (local backup):

* You don't use a local backup of jQuery if/when you're unable to reach the online copy. (-5)  
  Find the example code in the class materials that will only use the local copy when the network copy is unavailable.
* Your local backup of jQuery doesn't work. You copied the stuff from the course website (which for this feature is fine) but you did not fix the path (link) to the jquery…js file. You need to adjust the path so that it refers to the actual file that you're using (-5)
* You did not include the jquery file itself in your .ZIP. Please do so for the revision to this assignment, and for all future assignments (-5)
* Looks good.

Greeting the user when the page loads:

* The assignment specified that “When the page has finished loading, you should prompt the user for their name”. There is a JavaScript prompt() function although we did not cover it in class. Because of this this instructions were therefore slightly vague.   
  Given that one of the goals of this class is to help you develop a greater independence as a programmer you need to do something ‘reasonable’ in a situation like this. Your instructor can think of three options that seem reasonable (but keep in mind that there may be other things that the instructor didn’t think of, that you could have done):

1. You could use what you have learned in this class to accomplish this task as best you can.  
   For example, put a textbox + button on the page to get the user’s name. By putting some text on the page you can ‘prompt’ the user to type into the textbox
2. Notice that prompt is a JavaScript command (for example, by Googling for “JavaScript prompt”, and then use that function to accomplish this task.
3. Ask the instructor for clarification.  
     
   Recognizing when something is confusing/vague/incomplete/etc and then politely following up with someone to clarify it is an important real-world skill.  
   At this point you’ve done nothing (you’re not prompting the user in any way) so for the revision please use option #2, above (look up the prompt() function and use that). (-10)

* Only display the message if the user has clicked "Ok" (do not display the message if they've clicked "Cancel") (-2)
* This is not implemented – please see the "User-greeting functionality" part of the assignment for more details about what you need to do here. (-5)
* Looks good, overall.

*GPA Calculations:*

* Looks good, overall.
* You need to provide a text input box for the user to enter their grade. (-5)
* The text input box needs to be clearly labeled, so that it’s clear what to type into it. (-2)
* You need to provide a button for the user to click to determine their grade. (-4)
* The button needs to be labeled “Click Here to see your GPA!” (-2)
* The output should NOT be displayed in an alert – use a paragraph element. (-10)
* If the user leaves the input box blank, then your page needs to produce an error message that specifically tells the user that the input element cannot be left blank. (-4)
* If the input box does not contain a number, then your page needs to produce an error message that specifically tells the user that the input must be a number (-5)
* If the input box contains a number between 0 and 1, then your page needs to produce an error message that specifically tells the user that the format for the percentage is something like “75”, not “.75” (-5)
* Convert the user’s input to being a number before you treat it like a number (i.e., after line X) (-5)
* When checking for the gpa box being empty / blank, check against the raw .val() and NOT the converted Number (-5)
* You need to redo the logic around figuring out the grade – it’s not acceptable to use 50 zillion if statements, one for each possible grade that you might receive. Go back and think about a formula that you might use instead. (-10)
* Your loop works, but is extremely inefficient so please remove it. Go back and find a formula to use, in order to figure out what the user’s grade in a single step. (-5)
* You don’t quite have the right formula for figuring out the user’s grade. A 94% should be a 3.9, and a 95 or higher should be a 4.0 (just like a 61% or lower is a zero) (-5)

**Grade (out of 100):**

Revision-Specific Grading Details:

**To calculate your grade:** add up all the (-1)'s and (-6)'s and (-X)'s, to get some negative number, then take that from the total to get your grade. For example: If the total points available for the assignment was 100, and you had the following penalties: -3 + -6 + -6 🡺 -15, so the grade would be 100 -15 = 85.

Why do you have to do this? Because this is only version 1, and so you won't really get your 'real grade' until you hand in the revision. Sometimes the grade on this first version appears really low (especially if you left out a whole section), and so I want to give people feedback, but try to avoid spooking people. Keep in mind that if you don't hand in a revision, this will be your final grade.

**Note**: While the above list of errors is intended to guide your improvement of this homework, you should realize that a given error may occur in more places than have been specifically cited here. It is your responsibility to find all occurrences of a given error, and fix them all. You must do this in order to get the points on the revision.

**Note**: Items that are 'greyed out' don't count - these don't actually represent points that you've lost. Instead, these are there for informational purposes, to preemptively give you feedback for your revision. Example of a 'greyed out' item:

You didn't do X. (-3)