**Manage Words Version 3**

Last modified: 28 February 2022

Your assignment is to create a PHP + HTML + CSS + JS system that allows the user to add a new entry to the words file (word, part of speech, and definition, tab separated), to delete an existing entry, and to add a new part of speech. As in the previous assignment, the name of the PHP program must be managewords.php, the words file must be words.txt, the parts of speech file must be parts.txt, and the system must be styled with managewords.css. All files must be in the current directory.

New with this assignment is the requirement for a JavaScript file named managewords.js, also in the current directory.

For full credit the previous requirements remain:

* keeping the words in alphabetical order by word and part of speech
* ensuring the word and part of speech portion of a new entry is in lower case
* allowing any printable character to appear in the definition, but preventing any possibility of injection attack
* disallowing entries which duplicate both word and part of speech
* using a select dropdown for all existing parts of speech
* allowing the user to create a new part of speech to be used henceforth
* presenting a list of each word in the file for direct deleting, perhaps by using checkboxes or a delete button attached to each word
* using CSS to produce a clean, attractive style

New or newly stated requirements are:

* use JavaScript to enhance the user experience to the fullest. it should be impossible for the user to do anything wrong. controls should not be visible or active when it is inappropriate. all possible input should be clean and valid before it is submitted to the server (including a check for duplicate entries). use colors, borders, and other cues to let the user know what is happening now and what to do next.
* every file in the system, text or code, must be terminated with a single newline as the last character in the file
* there can be *only one* form element in the system
* there can be no hidden input elements in the system
* you are *not* allowed to use AJAX in this system

Make sure your program includes the following lines at the beginning of the first PHP section:

error\_reporting(E\_ALL);

ini\_set('display\_errors', '1');

Your program should emit valid HTML5. Make sure any links within your emitted code are relative links.

Make sure your code adheres to the rules in the [coding style guide](https://borax.truman.edu/315/coding_rules.html).

By noon submit the PHP program, your CSS file, and your JS file to the [homework submission](https://borax.truman.edu/315/submit.php) page.