

Overview

For this project, you will create a simple “search suggestion” script using an HTML form, PHP, and Ajax code. This will function similar to how search interfaces suggest completions based on what you start typing into the query text box. You may use jQuery if you wish, or you may write your Ajax “by hand” using Javascript.

What to do

Write a HTML form called `youronyen-p5.html` that has two text fields (A and B). You should NOT have a submit button with your form. Textfield A will be where you can type in a string and multi-line textfield B will display the completion suggestion(s). As the user types text into the field A, your Ajax code should be activated after each keypress and should display completion suggestions in field B. To keep this assignment manageable, we’ll use a short set of words that we can suggest completions for:

```
prevent
present
president
prevalent
accumulate
accelerate
actual
```

After each keypress in field A, your Ajax code should cause the current string that is in field A to be sent to a server script called `youronyen-p5.php`. This PHP script should return a list of all the words in the list above that have the same prefix characters as the ones typed in field A. For example, if “prev” is typed in field A, then your PHP script should return a list with two words: prevent and prevalent. These two words should then be displayed in the multi-line textfield B – one per line.

How to do it

Implement the functionality described above using Javascript and PHP. Be sure that your files work on `ruby.ils.unc.edu` with Firefox.

Be careful to make sure that you include a variable initialization block at the top of each file or code segment that initializes all variables used in that section of code. Also be sure that you have sanitized all `$_GET` and `$_POST` input including use of `addslashes`, `striptags`, and `htmlentities` AS APPROPRIATE. Your code should run correctly on systems with `magicquotes_gpc` ON or OFF.

Develop your system using the files as outlined above. Be sure to include a `youronyen-p5-readme` file that contains ONLY the URL for your “live” project, followed by a blank line.

All your code and links should work with these files, named as indicated, in the same directory. In other words, if your files were placed together in some other directory, they should still work.

What to turn in and how

Make sure all of your files are in one directory on a Unix machine (for example, `ruby.ils.unc.edu`). `cd` into that directory and then type the following command to create a gzipped tar file:

```
tar cvzf youronyen-p5.tgz .
```

Note that after the “tgz” there is a space and then a period.
Check your tgz file with the following command:

```
tar tvzf youronyen-p5.tgz
```

When you are satisfied that your tgz file is okay, you can submit it electronically through Sakai by going to the Assignments area and finding the “P5” assignment. After you think you have submitted the assignment, I strongly recommend checking to be sure the file was uploaded correctly by downloading it from Sakai and verifying it again with the “tar tvzf” command. Keep in mind that if I cannot access your files, I cannot grade them.

If for some reason you need to re-submit your homework file, you must add a version number to your filename. Sakai is configured so that it will only accept 3 total submissions. Use the following file naming convention if you need to re-submit:

```
Your first submission:  youronyen-p5.tgz  
Your second submission: youronyen-p5-v2.tgz  
Your third submission:  youronyen-p5-v3.tgz
```

Sakai is also configured with a due date and an “accept until” date. Submissions received after the due date (even just 1 minute!) will receive a 10% penalty per day. The “accept until” date is 5 days after the due date. Submissions will not be accepted after the “accept until” date and will have a score of zero recorded.

If for some reason you are unable to submit an assignment to Sakai, as a last resort you may email it to the instructor along with a note about the problem you encountered. Then, as soon as you are able to, it is your responsibility to submit the exact same assignment to Sakai. The email serves as a record that you tried to submit the assignment on time, but to receive credit, your assignment must be uploaded to Sakai.