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Return python output to html

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myminimonster

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Posts: 33
Joined: Sun Dec 30, 2012 11:08 pm
Location: Midlands UK

Return python output to html Quote

Mon Jan 21, 2013 2:25 pm

Hi all,

I was wondering if someone could help me as i am struggling a bit.
What i am trying to do is call a python script from a html page and return the result back to the html page.

I am calling a function containing ajax from within a html form. The ajax in turn calls the python script.

Here is the python scripts output section, which is displaying the Rpi CPU temp stored in the mytemp1 variable

Code:

```
output ="Content-type: text/html\n\n"
output += "<html><body>"
output += mytemp1
```

```
output +="</body></html>"
print output
```

if i call this script directly from ssh (sudo python myscript.py) i get the output ok on the terminal window.
if i call this script from a url i get the output ok on a blank webpage (x.x.x.x/cgi-bin/myscript.py)
What i want to try and do is call it from an existing page and return the result to the same page.

Here is where the script is called from

Code:

```
<form>
<input type="button" onClick="cputemp()"  value="get cpu temp"/>
</form>
```

Here is the function that is called, i have a temporary alert which i would like to replace for the part writing to the html page.

Code:

```
function cputemp()
{

    $.ajax(
    {
        type: "POST",
        url: "http://x.x.x.x/cgi-bin/myscript.py",
        data: output,
        dataType: "html",
        success: function (msg)
                        {
                        alert("script ran ok");
                        },
    });
}
```

When I call the function so far all i get is an error in my browser logs stating that 'output' is undefined.

I think the issue is with my ajax part of the script but i'm not ver good with ajax so any pointers would be appreciated.
I looked at this url but was swamped with trying to workout what all the lines of code did and it goes over my head.
http://www.degraeve.com/reference/simpl ... xample.php (http://www.degraeve.com/reference/simple-ajax-example.php)
I think i need the ajax to accept the variable 'output' back from the python script then replace a div contents using something
like getElementById (is this ajax or just javascript 🤓)

Thanks in advance all. 😊

Adrian

Newbie

rst
Posts: 1316
Joined: Thu Nov 01, 2012 12:12 pm
Location: Dublin, Ireland

Re: Return python output to html Quote

Mon Jan 21, 2013 5:46 pm

Your issue is that you are trying to send something stored in a variable called 'output', but you haven't even defined that variable anywhere...

Are you sending something (or planning to) from the web-browser/javascript to the server/python?

If not, you could just leave the 'data' member out - it is for 'Data to be sent to the server' - see the jQuery API doc for the ajax() function: http://api.jquery.com/jQuery.ajax/ (http://api.jquery.com/jQuery.ajax/)

The response from the python script should come back in the 'msg' variable there in your success handler - so you could try: alert("script ran ok and returned: " + msg);

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myminimonster
Posts: 33
Joined: Sun Dec 30, 2012 11:08 pm
Location: Midlands UK

Re: Return python output to html Quote

Mon Jan 21, 2013 7:30 pm

Thanks for your help , that worked. The output in the alert contains the html headers as they are part of the variable 'output'

Code:

```
output ="Content-type: text/html\n\n"
output += "<html><body>"
output += mytemp1
output +="</body></html>"
print output
```

so i end up with an alert saying

> script ran ok <html><body>41.2'C </body></html>

If i remove the headers to leave

> Code:
>
> ```
> output = mytemp1
> print output
> ```

I get no alert as if its not happy with something. 🤓

Now that i have this variable held in the 'msg' in ajax, can ajax use this like Javascript would and i can update the html page using

> Code:
>
> ```
> document.getElementByid('xxxxx').innerHTML= msg
> ```

Thanks again, even by highlighting that the data is being sent to the server. I'm sure i will come across a situation where i would like to do this too.

Adrian

Newbie

-rst-

Posts: 1316
Joined: Thu Nov 01, 2012 12:12 pm
Location: Dublin, Ireland

Re: Return python output to html Quote

Tue Jan 22, 2013 5:44 pm

Look at the API doc again for the parameter dataType - it tells the underlying ajax library what the response (data coming back) should look like... see why the html response works but plain text does not? And what do you need to change to get the 'plain text string' to work... 😉

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myminimonster

Posts: 33
Joined: Sun Dec 30, 2012 11:08 pm
Location: Midlands UK

Re: Return python output to html Quote

Wed Jan 23, 2013 8:10 pm

arh ok thanks. I got it now thanks to you.

> Code:
>
> dataType: "text,

🙂

I got the html page updated in the end by using this variable and the using document.getElementById .

Thanks again

Newbie

rst

Posts: 1316
Joined: Thu Nov 01, 2012 12:12 pm
Location: Dublin, Ireland

Re: Return python output to html Quote

Thu Jan 24, 2013 12:55 pm

Well done!

If you are using jQuery already anyway (for the ajax calls), why not use it for finding and setting the element text (instead of document.getElementById and element.innerHTML)...

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myminimonster

Posts: 33
Joined: Sun Dec 30, 2012 11:08 pm
Location: Midlands UK

Re: Return python output to html Quote

so few words and so quickly over my head.

I will try and read up a bit more and understand what you mean as i'm sure by you mentioning it, it is a more efficient wa of doing it 😬

thanks again
Adrian

Newbie

-rst-

Posts: 1316
Joined: Thu Nov 01, 2012 12:12 pm
Location: Dublin, Ireland

Re: Return python output to html　Quote

Hmm, sorry - sometimes hard to get the 'experience level' of the explanation right 😬

It's not necessarily any more effective way of doing it, but there are some advantages especially if you end up coding something bigger.

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jrmedd

Posts: 20
Joined: Mon Oct 29, 2012 3:48 pm

Re: Return python output to html　Quote

I'm not sure what sort of project you're working on, but if you want to call Python scripts from HTML and then display the info, check out Flask: http://flask.pocoo.org/ (http://flask.pocoo.org/)

I've been using it to build a web interface for a Python program I've been working on, it's a cinch!

myminimonster

Posts: 33

Joined: Sun Dec 30, 2012 11:08 pm
Location: Midlands UK

Re: Return python output to html Quote

Mon Jan 28, 2013 8:33 pm

Thank you very much. Thats sounds interesting an I take a look.

Thanks for letting me know.

Adrian

Newbie

kmj

Posts: 1
Joined: Wed Dec 10, 2014 7:28 pm

Re: Return python output to html Quote

Wed Dec 10, 2014 7:34 pm

You can put full code, I'm in the same situation as you, but with less experience. HTML + CGI complete please. Thank you so much.

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