

Easy Python Launcher based on PHP

You can run your python code easily based on your web browser if you have Apache+PHP server. Below code enable you to run your code by click
PHP is a useful programming language to implement web application, and easy to run python code by `shell_exec()`.

```
<?php  
  
echo shell_exec( "hello_world.py" );  
  
?>
```

Note that you should use echo to print out the executed result on the browser.

For beginners, below simple code will be user useful. Just copy&paste to your web server and you will be able to run your code by click.

index.php

```

<?php
/*
 * Easy Python Launcher
 *
 * Programmed by Chun Kang (2021-08-03) for Johnny Kang
 *
 **/

extract( $_POST);
extract( $_GET);
extract( $_COOKIE);
extract( $_SERVER);

function findfiles( $path, $regex="", $order=0)
{
    $r = scandir( $path, $order); // $order: 0->ascending / 1->descending
    if ($r==false) $ret=$r;
    else
    {
        $ret=array();
        $i=count($r)-1;
        for($i=0; $i<count($r); $i++)
        {
            if (
                (($regex=="") || preg_match('/' . $regex . '/', $r[$i]))
                && strlen($r[$i])
                && $r[$i]!='.'
                && $r[$i]!='..'
            ) $ret[]=$r[$i];
        }
    }
    return $ret;
}

if (strlen($p))
{
    header("Content-Type: text/html; charset=UTF-8");

    if (preg_match("/\.py$/", $p))
    {
        echo shell_exec("python {$p}");
    }
    else
    {
        echo shell_exec("python {$p}.py");
    }
}
else
{
    $code_list = findfiles( ".", ".py");
    if (@count($code_list))
    {
        echo "Your codes available<br>";
        echo "<hr>";
        foreach($code_list as $filename)
        {
            echo "<a href=\"?p=" . urlencode($filename) . "\">{$filename}</a><br>";
        }
    }
    else
    {
        echo "You can run your code like below:<br><br>";
        echo "http://{$_SERVER['SERVER_NAME']}{$_PHP_SELF}?p=[your_python_filename]";
    }
}

?>

```