



Assignment 1 (HF, major subject)

Due: Wed 02.11.2016; 20:00h (1 Week)

Goals

These exercises will...

- Show you the differences between the HTTP GET and POST methods
- Make you grow fonder with server-side scripting with PHP (potentially)
- Teach you the value of string and array functions in PHP

Task 1: What's the Problem here?

Difficulty: Easy

Take a look at this PHP script. It shows a number of flaws, e.g. in terms of security.

```
<!DOCTYPE html>
<html>
<head lang="en">
  <meta charset="UTF-8">
  <title>What's wrong here?</title>
</head>
<body>

<?php
function loginUser($email,$password){ //imagine valid login routine }

if($_POST['submit']){
  loginUser($_POST['email'],$_POST['password']);
}
else{ ?>
<form>
  <label>
    Email: <input type="email">
  </label>
  <label>
    Password: <input type="password">
  </label>
  <input type="submit" />
</form>
<?php } ?>
</body>
</html>
```

Write a brief explanation and put it as .txt file in the folder 'task1'.



Task 2: Sffuhle my Wrods!

Difficulty: Easy

The human brain is able to easily read scrambled text. Take [this example](#):

Aoccdrnig to rscheearch at Cmabrigde Uinervtisy, it deosn't mttar in waht
oredr the ltteers in a wrod are, the olny iprmoentn tihng is taht the frist and lsat
ltteer be at the rghit pclae. The rset can be a toatl mses and you can sitll raed it
wouthit a porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter
by istlef, but the wrod as a wlohe.

The key is to keep the first and last letter of each word and shuffle what is in between.

Your task is to create a web-page that can scramble any text like this. The page should have a form with a textarea and a submit button. After submitting the form via POST, the scrambled text should be displayed (see screenshot below).

Use PHP, i.e. server-side code, to complete this task. Make use of [string](#) and [array](#) functions to find a nice solution.

```
According to a researcher at Cambridge University, it  
doesn't matter in what order the letters in a word are,  
the only important thing is that the first and last  
letter be at the right place. The rest can be a total  
mess and you can still read it without problem. This is  
because the human mind does not read every letter by  
itself but the word as a whole.
```

Output:

Aoccdrnig to rscheearch at Cmabrigde Uinervtisy, it deosn't mttar in waht
oredr the ltteers in a wrod are, the olny iprmoentn tihng is taht the frist and lsat
ltteer be at the rghit pclae. The rset can be a toatl mses and you can sitll raed it
wouthit a porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter
by istlef, but the wrod as a wlohe.



Put all your code files into the folder 'task2'.



Submission

Please turn in your solution via UniWorX. You can form groups of up to three people.

We encourage you to sign up for Slack! All you need is a CIP account and an email address that ends in “@cip.ifl.lmu.de”. Ask us if you don’t know how to get them.

If you have questions or comments before the submission, please contact one of the tutors. They are on Slack [@tobi.seitz](#), [@peterjuras](#) and [@thomas-weber](#). Remember, that they also want to enjoy their weekends 😊

It also makes sense to ask the question in our [#mmn-ws1617](#) channel. Maybe fellow students can help or benefit from the answers, too!

Let’s collaborate on GitHub!

As we do not provide sample solutions, we encourage you to collaborate with all your peers on a sample solution for this assignment on GitHub.

We created a public repository for this purpose:
<https://github.com/MIMUC-MMN/assignments-16-17>

The staff will always check what’s in there and add comments or push updates.

The screenshot shows the GitHub interface for the repository 'MIMUC-MMN / assignments-16-17'. At the top, there is a search bar and navigation links for 'Pull requests', 'Issues', and 'Gist'. The repository name is displayed, along with statistics: 1 Unwatch, 0 Stars, and 0 Forks. Below this, there are tabs for 'Code', 'Issues (0)', 'Pull requests (0)', 'Projects (0)', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The main content area shows the repository description: 'Public repo for student-contributed solutions for the assignments (Online Multimedia @ LMU)'. It also displays commit statistics: 1 commit, 1 branch, 0 releases, and 1 contributor. A 'New pull request' button is visible. The latest commit is by TobiasSeitz, dated Sep 1, 2 months ago. The repository contains a 'README.md' file, which is previewed below, showing the title 'assignments-16-17' and the same description as the repository page.