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.

```php
<!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!

The human brain is able to easily read scrambled text. Take this example:

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.

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.

Output:

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.ifi.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.