Assignment 1 (NF, minor subject)

Due: Friday 04.11.2016; 14:00h (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:

Aoccdrnig to rscheearch at Cmabrigde Uinervtisy, it deosn't mtttaer in waht oredr the ltteers in a wrod are, the olny iprmoent tihng is taht the frist and lsat ltteer be at the rghit pclae. The rset can be a toatl mses and you can stil raed it wouthit a porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey ltter 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.

Output:

Aoccdrnig to rscheearch at Cmabrigde Uinervtisy, it deosn't mtttaer in waht oredr the ltteers in a wrod are, the olny iprmoent tihng is taht the frist and lsat ltteer be at the rghit pclae. The rset can be a toatl mses and you can stil raed it wouthit a porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey ltter 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 as a ZIP archive. You can form groups of up to three people.

We encourage you to sign up for our Slack Team! 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 a lot of sense to ask the question in our #mmn-ws1617 channel. Maybe fellow students can offer help or benefit from the answers, too!