

IMY 220

Practical 2:

PHP

Due: Friday 12 August @ 9:30

The submission instructions are available on ClickUP. Any deviation from these instructions will cause a 10% deduction from your mark.

Instructions

- Create a website where you are able to read names from a text file into a table and further using those values to create groups and do some general manipulation with the names.
- You will be using PHP for this practical.
- A heavy focus will be placed on array manipulation in this practical. If you get stuck, look at the notes and remember that Google is your friend.

Part 1: Dynamic HTML Table using text file values

download "**index.php**" from clickup. Inside this file you will find a simple form with an input and a button. Use this form to set the number of rows that is displayed inside the table. Here is what you need to do:

- Create a **textfile called "names.txt"** that will be used to read names and display them in a table (an HTML table) underneath the given form. Each name in the textfile should be listed on a **new line**.
- The number of rows (<tr> tags) in your HTML table should change depending on the input value that you set. When the page loads initially (i.e., the value for the number of rows is not set yet) the total number of rows should **default to 1**. Below is an example of what this looks like:

Number of rows:

David	Louis	Ben	Bob	Daniel	Jake	Peter	Pieter	Voldemort	Cody
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Below is an example of when you set the number of rows as 3:

Number of rows:

David	Louis	Ben	Bob
Daniel	Jake	Peter	Pieter
Voldemort	Cody		

The number of columns in the initial table should be equal to the total number of names divided by the number of rows that you set, so that all of the names are always displayed in your table

Part 2: Arranging names into groups

Next you will need to split the names into 2 groups (i.e., if there are 10 names in your text file, place them in two arrays of half that size, so in this case 5 names each) to group them together, this should happen when the "Split and create groups" button is pressed. To break the pattern a little bit we will reverse the second half of the names. So, to summarise, what you need to do for this part:

- Create a form that uses the GET method, and that submits to itself (*index.php*), and that has a button called "Split and create groups".
- Split the list of names into 2 groups, reverse the second group (i.e., reverse the array) and add the names together in a new array. If "names.txt" doesn't contain an equal number of names, then the individual name must be placed in a group alone, as shown in the screenshot below.
- Next you need to display the resulting array in another table, this table is independent from the other one and is used purely to display the groups.
- Please note that if the "split and create groups" button is pressed, the number of rows should NOT reset, and it should still be the number that you entered (i.e., the table should still display the number of rows that you specified). Tip: make use of hidden inputs for this.

If done correctly, it will look something like this:

Split and create groups

David and Cody
Louis and Voldemort
Ben and Pieter
Bob and Peter
Daniel and Jake

Below is an example of when there is an uneven number of names:

David and Tony
Louis and Cody
Ben and Voldemort
Bob and Pieter
Daniel and Peter
Jake

Below is a screenshot of everything put together:

Number of rows:

David	Louis	Ben	Bob
Daniel	Jake	Peter	Pieter
Voldemort	Cody	Tony	

David and Tony
Louis and Cody
Ben and Voldemort
Bob and Pieter
Daniel and Peter
Jake

Additional Information

- Refer to the slides for help
- Google is your friend, and you will find some of answers to your questions quite fast. If you're stuck with some of the array manipulation, don't hesitate to Google.

Submit only the following file(s) according to the submission instructions.

- *index.php*