WEB DEVELOPMENT WITH PHP

COURSE #06



LET'S RECAP

COURSE 5 WAS ABOUT:

- ★ Superglobal variables
- ★ URL parameters and \$_GET
- ★ Structuring your code
- **★** Functions

TOPICS COURSE #06

- 1. Superglobal variables, HTML forms & POST
- 2. Databases MySQL [1/3]
- 3. Homework

1. SUPERGLOBALS VARIABLES

SUPERGLOBAL VARIABLES

WHAT ARE SUPERGLOBAL VARIABLES?

Variables which are created automatically by PHP and hold various information regarding the current script execution.

They are available anywhere in your code and you usually use them to grab the user input or to communicate between the server where the PHP code is stored and the visitor's browser.

- P. Williams

peripheral that types when you issue a read request."

From a programmer's point of view, the user is a

HTML forms

HTML forms are used to collect user input.

HTML FORMS

ATTRIBUTES

- > METHOD
- > ACTION
- > SUBMIT

HTML Forms - METHOD

- → The Method attribute is used to tell the browser how the form information should be sent.
- → The two most popular methods you can use are GET and POST.

Examples:

Try each one of them! What is the difference?

HTML Forms - ACTION

- → The Action attribute is crucial. It means, "Where do you want the form sent?".
- → In PHP, a popular technique is to send the script to the same page that the form is on send it to itself, in other words.

Examples:

Try each one of them! Where did it land?

HTML Forms - SUBMIT

→ The HTML Submit button is used to submit form data to the script mentioned in the ACTION attribute.

Examples:

Try each one of them! What happened in the first case, but in the second?

HTML Forms - RECAP

- → In order to get a form working one would need to define:
 - A METHOD
 - AN ACTION
 - A SUBMIT handler
- → Let's build our first form!

HTML Form - First Form

- → Create a new file named *form.php*
- → Create the following page/form:

- → Tasks to accomplish:
 - Add a textarea named "myTextArea"
 - ◆ Add a select list named "mySelect" having 3 options:
 - Yes
 - No
 - Maybe
 - Find out how to add labels to inputs

Let's review superglobals...

→ \$_GET

An associative array of variables passed to the current script via the HTTP GET method.

→ \$_POST

An associative array of variables passed to the current script via the HTTP POST method.

Marie



Keep reviewing superglobals...

→ \$_GET may be used for sending non-sensitive data.

Information sent from a form with the GET method is visible to everyone (all variable names and values are displayed in the URL).

GET also has limits on the amount of information to send. The limitation is about 2000 characters.

However, because the variables are displayed in the URL, it is possible to bookmark the page. This can be useful in some cases.

→ \$_POST has to be used when dealing with sensitive data

Information sent from a form with the POST method is invisible to others (all names/values are embedded within the body of the HTTP request) and has no limits on the amount of information to send.

Moreover POST supports advanced functionality such as support for multi-part binary input while uploading files to server.

Let's practice a bit

Open file form.php created earlier - in any browser

Notice the form. Let's complete and submit it!

What happend?

Why?



So what next?

Using Form Submissions in PHP

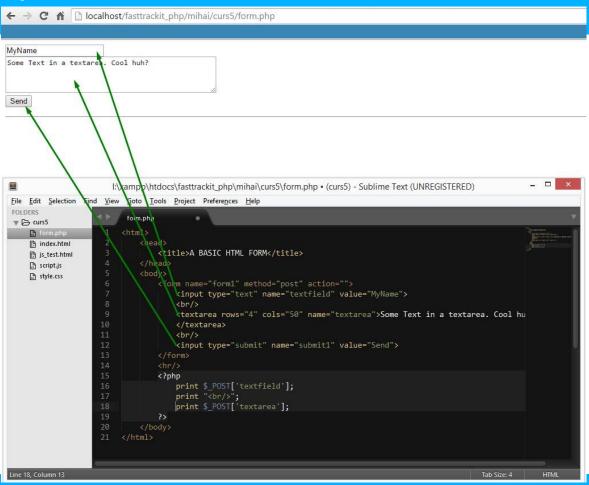
Remember the definition of \$_POST and \$_GET ?

In order to get the values submitted through our form we will take advantage of these globals.

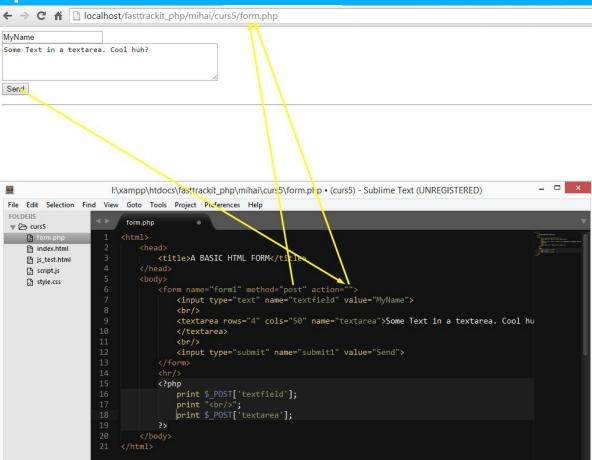
Our values will be available in:

```
$_POST['myName']
$_POST['myTextArea']
$_POST['mySelect']
```

A picture is worth a thousand of words...

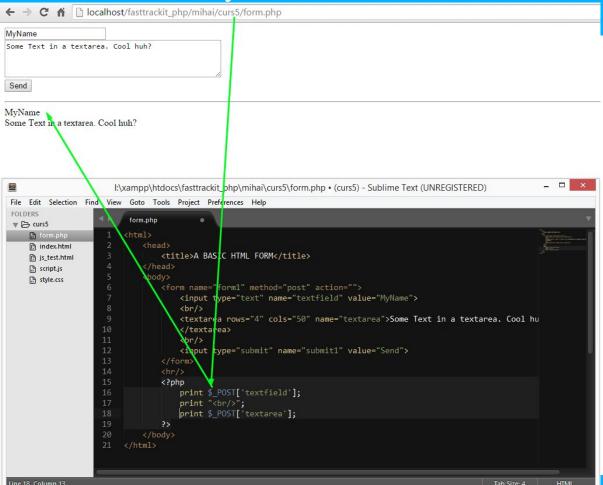


A picture is worth a thousand of words...



Line 18 Column 13

Yeey! IT WORKS !!!



YOUR TURN! :D

Use a PHP output command to display on the screen the following after form submission:

Hello my name is [YourName] and i just submitted: [YourText] with option [YourSelect]

Different destinations for your Form Submissions

Maybe we would like to send the user input to another page, not the current one, right?

Let's say we need to output it on page **output.php**Create it and let's see how to send data to it.

What attribute of the form needs to be changed? Why?

Let's try the previous example, but with sending data to *output.php*

Display on page **output.php** the following after form submitting page **form.php**:

Hello my name is
[YourName] and i just
submitted:
[YourText]
with option [YourSelect]

LET'S EXERCISE A BIT

Creating a login form



After login, it should go on home.php and display:

"Hello [username], your password [password] was correct."

Also it has to display one of the following, based on user's choice:

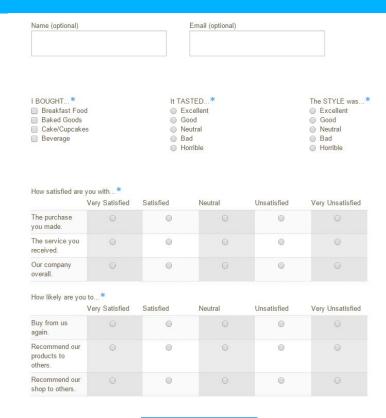
"Yeeey you want us to remember you"

"Oh no... you chose that we'll forget you :("

Creating a customer survey form

The form will be located in **survey**. **php**

After "Send Survey" user should view all his answers in **answer.php** and have a button to "Take the survey again"



SEND SURVEY

And now...



4. DATABASES

What is a database?

"A way to store information in a structured way"

Before computers, we had databases on paper.

As a computer solution, it appeared around 1960.

Types of databases

→ Flat file

you edit content manually, not by instructions

→ Relational

 each record has an unique identifier, which is used to create links to other records

→ Non-relational (NoSQL)

- no connection between records
- each record can have a different set of fields

MySQL

→ Second most popular database in the world, most popular choice for web development

→ Integral part of the LAMP infrastructure:

Linux

Apache

MySQL

PHP

History of MySQL

- → 1994 created by Ulf Michael Widenius (a.k.a. Monty) in Sweden
- → 1998 Windows version
- → 2008 acquired by Sun (\$1 billion)
- → 2010 acquired by Oracle

We have a list of students, each student has a first name and a last name.

How would you do it in an Excel file?

First name	Last name	
John	Doe	
Jane	Smith	
Alice	Popescu	

We also have a list of courses. Each course has a name and a trainer.

Course name	Trainer
Introduction in QA	Mike Testovici
Web development with PHP	Sam Webby

How do we know what course is each student attending?

Let's add a new column in the Students sheet, called Course.

First name	Last name	Course

What should we put in the Course column?

Working with words is for humans... computers like numbers better:

id_student	First name	Last name	Curs
1	John	Doe	2
2	Jane	Smith	2
3	Alice	Popescu	1

id_curs	Course name	Trainer
1	Introduction in QA	Mike Testovici
2	Web development with PHP	Sam Webby

How to access a mysql database?

phpMyAdmin

phpMyAdmin is a web-based tool which allows us to work with MySQL databases.

It's written in ... you're right, PHP ... and it's open source.

Let's check if you already have it:

http://localhost/phpmyadmin/

Let's phpMyAdmin!

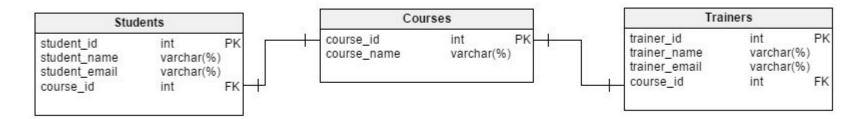


Let's phpMyAdmin!

- 1. Create a database called fasttrackit
- 2. Create a table named <u>students</u> with the following columns
 - a. **student_id** (numeric, not null, primary_key)
 - b. **student_name** (var_char)
 - c. **student_email** (var_char)
 - d. **course_id** (numeric, foreign_key)
- 3. Create a table named courses
 - a. **course_id** (numeric, not null, primary_key)
 - b. **course_name** (var_char)
- 4. Create a table named trainers
 - a. **trainer_id** (numeric, not null, primary_key)
 - b. **trainer_name** (var_char)
 - c. trainer_email (var_char)
 - d. **course_id** (numeric, foreign_key)

Let's phpMyAdmin!

Reading a database diagram ...



What is a PK ??? What is a FK ???

What is a <u>one-to-one</u> relation? What is a <u>one-to-many</u> relation? What is a <u>many-to-one</u> relation? What is a <u>many-to-many</u> relation?

Google it.

Next time on fasttrackit course:)

Coming Up
Next

SELECT INSERT UPDATE DELETE

MANIPULATING DATABASE ENTRIES WITH SQL

GROUP PROJECT

What do we need



- 1. Group in teams of 2-3 persons
- 2. Assign a team responsible
 - a. will comunicate the team needs and updates
 - b. will ensure team cohesion
 - c. can be a different person each week so you can get your turn
- 3. Create trello accounts: https://trello.com/
- 4. Add a picture of you to the trello account
- 5. Send a mail with your trello username at the group email address
- 6. We'll add you to the trello board and kickstart the group project!

