

EXPERIMENT - 9

[WHAT IS INTROSPECTION]

- IN PHP INTROSPECTION IS THE ABILITY TO EXAMINE AN OBJECT'S CHARACTERISTICS SUCH AS ITS NAME, PARENT CLASS, PROPERTIES, METHODS, INTERFACES

[FUNCTIONS OF INTROSPECTION]

FUNCTION NAME	DESCRIPTION
① class_exists()	<ul style="list-style-type: none">- CHECKS WHETHER A CLASS HAS BEEN DEFINED OR NOT- RETURNS A BOOLEAN VALUE RESPECTIVELY
② get_class()	<ul style="list-style-type: none">- RETURNS THE NAME OF THE CLASS OF AN OBJECT- RETURNS A STRING
③ get_parent_class()	<ul style="list-style-type: none">- RETURNS THE PARENT CLASS FOR AN OBJECT OR CLASS- RETURNS STRING OR FALSE

- | | | |
|---|-------------------------------------|---|
| ④ | <code>is_subclass_of()</code> | - CHECKS IF OBJECT HAS THIS CLASS AS ONE OF ITS PARENTS OR IMPLEMENTS IT
- RETURNS A BOOLEAN |
| ⑤ | <code>get_declared_classes()</code> | - RETURNS AN ARRAY WITH THE NAME OF ALL DEFINED CLASSES |
| ⑥ | <code>get_class_methods()</code> | - RETURNS AN ARRAY WITH THE NAME OF ALL METHODS IN A CLASS |
| ⑦ | <code>get_class_vars()</code> | - RETURNS THE PROPERTIES OF A CLASS IN AN ARRAY |
| ⑧ | <code>interface_exists()</code> | - CHECKS IF AN INTERFACE HAS BEEN DEFINED |
| ⑨ | <code>method_exists()</code> | - CHECKS IF A CLASS METHOD EXISTS OR NOT |

[EXPLAIN SERIALIZATION]

- SERIALIZING MEANS CONVERTING AN OBJECT INTO BYTESREAM REPRESENTATION THAT CAN BE STORED IN A FILE.
- IT IS A TECHNIQUE USED BY PROGRAMMERS TO PRESERVE THEIR DATA INTO A FORMAT THAT CAN RESTORED LATER.

[METHODS]

① serialize()

- GENERATES A STORABLE REPRESENTATION OF A VALUE

SYN function serialize (

mixed \$value

): string

value → VALUE TO BE SERIALIZED

- RETURNS A STRING CONTAINING A BYTE STREAM REPRESENTING VALUE.

② unserialize()

- CREATES A (PHP) VALUE FROM A STORED REPRESENTATION

SYN

function unserialize (

string \$data ,
array \$options = []

): mixed

data → SERIALIZED STRING

options → OPTIONAL, ASSIGN ARRAY TYPE

- RETURNS A MIXED VALUE

PRODUCT	PROCESS	TOTAL	SIGN
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EXPERIMENT - 10

[HTML CONTROLS]

(a) Text Input

— USED FOR SINGLE LINE TEXT INPUTS

<input

type = "text"

name = "name"

placeholder = "Enter name here"

>

input — TAG

type — INPUT TYPE — (text)

name — ASSIGN A NAME

placeholder — PLACEHOLDER TEXT

(b)

<input

type = "password"

name = "password"

placeholder = "Enter password"

>

input — TAG

type — INPUT TYPE — (password)

name — ASSIGN A NAME

placeholder — PLACEHOLDER TEXT

(c)

<input

type = "email"

name = "email"
placeholder = "Enter mail"
>

input — TAG
type — INPUT TYPE — (email)
name — ASSIGN A NAME
placeholder — PLACEHOLDER TEXT

(d) `<input`
 `type = "date"`
 `name = "dob"`
>

input — TAG
type — INPUT TYPE — (date)
name — ASSIGN A NAME

(e) `<button`
 `type = "submit"`
> SUBMIT </button>

type — SUBMIT THE FORM WHEN CLICKED

(f) `<input type="checkbox" name="game[] value="GTA">`
`<label for="GTA" > GTA </label>`
`<input type="checkbox" name="game[]" value="RDR">`
`<label for="RDR" > RDR 2 </label>`

input — TAG

type — INPUT TYPE — (checkbox)

name — games[] — STORE MULTIPLE VALUES

value — VALUE TO SUBMIT

label — TAG

⑨

```
<input type="radio" name="gender" value="Male">  
<label for="male"> Male </label>
```

```
<input type="radio" name="gender" value="Dishwasher">  
<label for="dishwasher"> Dishwasher </label>
```

INPUT — TAG

label — TAG

type — INPUT TYPE — (radio)

name — ASSIGN NAME

value — VALUE TO SUBMIT

PROCESS

PRODUCT

TOTAL

SIGN

EXPERIMENT - II

HTML CONTROLS

(a) `<select name="country" multiple>`

`<option value="us"> USA </option>`
`<option value="uk"> UK </option>`

`</select>`

select → DEFINING DROPODOWN LIST

name → ASSIGN NAME

multiple → (LIST BOX)

option → LIST ITEM

value → VALUE TO SUBMIT

(b) `<input type="text"`
`list = "cities"`
`name = "city"`
`>`

`<datalist`
`id = "cities"`
`>`

~~`<option value="NY">`~~
~~New York~~

`<option value = "New York">`

<option value="Florida">

<option value="California">

</datalist>

list — ASSOCIATE INPUT WITH "datalist"

datalist — DEFINE A LIST

option — LIST ITEMS

value — VALUE TO SUBMIT

c) <button type="submit">
SUBMIT
</button>

button — TAG

type — SUBMIT FORM WHEN CLICKED

PRODUCT

PROCESS

TOTAL

SIGN

EXPERIMENT - 12

[WHAT IS REGEX]

- A REGEX IS AN OBJECT THAT DESCRIBES A PATTERN OF CHARACTERS.
- THEY ARE USED TO PERFORM PATTERN MATCHING

[MODIFIERS]

(1)

g

— PERFORM GLOBAL MATCH, FIND ALL MATCHES
CASE - SENSITIVE

(2)

i

— CASE INSENSITIVE, STOP AT FIRST MATCH

(3)

m

— DEFAULT, CASE-SENSITIVE MATCHING IS
DONE ON A SINGLE LINE.
PERFORMS MULTI-LINE MATCHING

[BRACKETS]

(1)

[abc]

— FIND ANY CHARACTER FROM THE BRACKETS

② `[^abc]`

— FIND ANY CHARACTER NOT FROM THE BRACKETS

③ `[0-9]`

— FIND ANY CHARACTER [ANY DIGIT]

④ `(x|y)`

— FIND EITHER CHARACTER

`[NOT CHARACTERS]`

① .

— FIND ANY SINGLE CHARACTER , EXCEPT
NEWLINE OR " \n "

② \w

— FIND A WORD CHARACTER

③ \W

— FIND A NON WORD CHARACTER

(4)

\d

—

FIND A DIGIT

(5)

\D

—

FIND A NON DIGIT

(6)

\s

—

FIND A WHITESPACE CHARACTER

(7)

\S

—

FIND A NON WHITESPACE CHARACTER

(8)

\b

—

FIND MATCH AT START OR END

[QUANTIFIERS]

(1)

n +

—

MATCHES ANY STRING THAT CONTAINS
AT LEAST ONE OR MORE

(2)

n *

— MATCHES ANY STRING THAT CONTAINS ZERO OR MORE

(3) $n?$

— MATCHES ANY STRING THAT CONTAINS ZERO OR ONE

(4) $n\{x\}$

— MATCHES ANY STRING THAT CONTAINS A SEQUENCE OF x^n 'S.

(5) $n\{x, y\}$

— MATCHES ANY STRING THAT CONTAINS A SEQUENCE OF x TO y^n 'S.

(6) $n\{x, \}$

— MATCHES ANY STRING THAT CONTAINS A SEQUENCE OF AT LEAST x^n 'S.

(7) $n\$$

— MATCHES ANY STRING WITH " n " AT THE END OF IT

(8) n

- MATCHES ANY STRING WITH "n" AT THE BEGINNING OF IT

METHODS

- ① preg_match()

 - RETURNS "1" IF PATTERN IS FOUND OR "0"

pattern → REGEX

input → STRING IN WHICH TO SEARCH

matches → OPTIONAL, ARRAYS WHERE FOUND

flags → OPTIONAL, OPTIONS FOR THE ARRAY

offset → OPTIONAL, TELL WHERE TO SEARCH
IN THE STRING

- ② preg_match_all()

- RETURNS NUMBER OF TIMES THE PATTERN FOUND IN STRING, MAYBE "0"

EXPERIMENT - 13

[WHAT IS COOKIE]

- A COOKIE IS A SMALL FILE THAT THE SERVER CHBED'S IN THE USER'S PC.
- A COOKIE IS SENT EVERY TIME THE SAME PC REQUESTS A PAGE WITH A BROWSER.

[ATTRIBUTES]

- ① NAME OR VALUE —
NAME — REQUIRED , COOKIE NAME
VALUE — OPTIONAL , COOKIE VALUE
- ② SECURE — OPTIONAL , IF TRUE THEN
COOKIE IS SET WHEN THERE IS AN
SECURE HTTP CONNECTION , DEFAULT FALSE
- ③ DOMAIN — OPTIONAL , IF SPECIFIED THEN
HOST NAME OF SERVER IS USED AS
THE DEFAULT VALUE
- ④ PATH — OPTIONAL, SPECIFY THE URL OR
PATH FOR WHICH THE COOKIE IS
VALID . DEFAULT IS THE CURRENT FOLDER
- ⑤ HTTPONLY — OPTIONAL, IF SET TO TRUE ,
THEN COOKIE IS ACCESSIBLE VIA HTTP PROTOCOL

⑥ EXPIRES — WHEN TO KILL THE COOKIE,
OPTIONAL, DEFAULT IS "0".

[Cookie Methods]

① setCookie (name, value, expire, path,
domain, secure, httpOnly)

— USED TO CREATE A COOKIE

② TO MODIFY THE COOKIE, JUST SET
THE COOKIE AGAIN USING "setCookie()"

— THE VALUE IS AUTOMATICALLY ENCODED
WHEN SEND INTO THE COOKIE.

③ TO DELETE A COOKIE, USE "setCookie()"
WITH AN EXPIRATION DATE IN THE
PAST.

[WHAT IS SESSION]

— SESSION IS A WAY TO STORE
INFO AND SHARE IT ACROSS DIFF.
WEB PAGES.

— THE SESSION IS NOT STORED ON USER'S PC

— HOLD INFO OF ONE USER AND CAN BE
ACCESSED FROM ANYWHERE

- THESE LAST TILL THE USER CLOSES THE BROWSER.

[METHODS]

① session_start()

- USED TO START A SESSION
- SET WITH GLOBAL VARIABLE \$_SESSION
- "session_start()" MUST BE THE FIRST THING IN YOUR DOCUMENT

② session_unset()

- USED TO REMOVE ALL SESSION VARIABLES.

③ session_destroy()

- USED TO DESTROY SESSION

Product	Process	Total	Sign
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EXPERIMENT - 14

[MAIL METHOD]

mail()

- ALLOWS USER TO SEND EMAILS DIRECTLY FROM SCRIPT

Syntax

function mail (

 string \$to ,
 string \$subject ,
 string \$message ,
 array|string \$add-headers = [] ,
 string \$add-params = "

): bool

to → THE RECIPIENT'S EMAIL ADDRESS

subject → SUBJECT OF THE EMAIL TO BE SENT

message → Message TO BE SENT

add-headers → STRING OR ARRAY TO BE INSERTED FROM THE

END OF THE EMAIL.

IT IS SET IN THE "php.ini"

FILE

odd -params → USED TO PASS ADDITIONAL PARAMETERS THAT CAN BE USED TO PASS ADDITIONAL FLAGS AS THE COMMAND LINE OPTIONS DEFINED BY "sendmail -path"

→ RETURNS A BOOLEAN VALUE

Eg.

```
$sub = "My mail";  
$msg = "Hello World";  
$rec = "abc@example.com";
```

```
if (mail ($rec, $sub, $msg)) {
```

```
    echo "Sent";
```

```
}
```

```
else {
```

```
    echo "Failed";
```

```
}
```

product	process	TOTAL	SIGN
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