# Input Validation



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#### Demo



Introducing our online shop

Registration

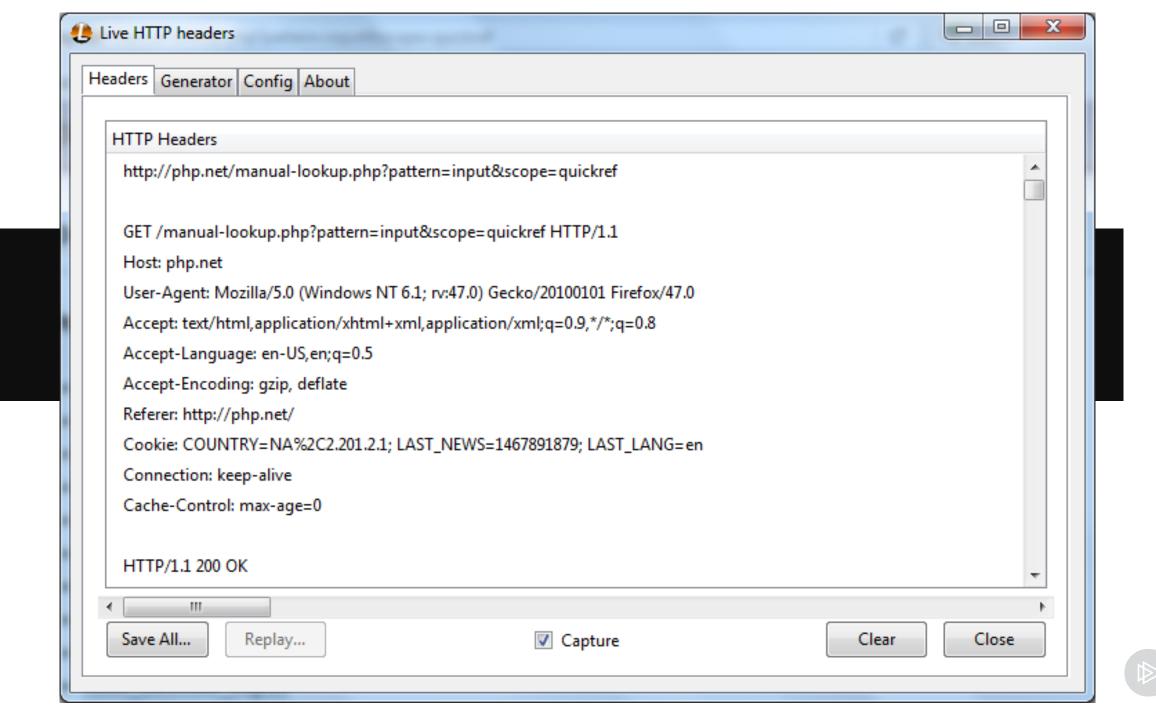
Logging in

Putting items up for sale

**Searching for items** 

**Buying items** 





# Further Input Sources





#### Demo



Hacking our shop
Sending spam
Getting a deep discount



# Validating Input

Is there any data?

isset()

?? operator

is\_\*()

Searching strings

strpos()

stripos()

strrpos()

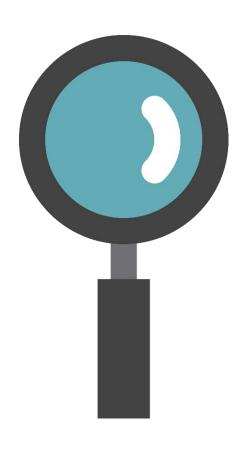
strripos()

Searching patterns

Regular expressions



### ctype Extension



ctype\_alnum

ctype\_alpha

ctype\_cntrl

ctype\_digit

ctype\_graph

ctype\_lower

ctype\_print

ctype\_punct

ctype\_space

ctype\_upper

ctype\_xdigit

is\_numeric



```
filter_var(
   doe€snöt@€x!st',
  FILTER_SANITIZE_EMAIL)
filter_var(
  'X-123.456E789Y',
  FILTER_SANITIZE_NUMBER_FLOAT,
  FILTER_FLAG_ALLOW_SCIENTIFIC
  FILTER_FLAG_ALLOW_FRACTION)
filter_has_var(
  INPUT_GET, 'id')
filter_input(
  INPUT_GET,
  'id',
  FILTER_VALIDATE_INT);
```

■ Validate or sanitize a variable

■ Validate or sanitize a variable, using options

- ◆ Check whether an input variable has been set
- Validate or sanitize an input variable

## PHP 7+ Type Declarations

```
<?php
declare(strict_types=1);
function add(int $a, int $b): int {
    return $a + $b;
$three = add('1', 2);
```

### Summary



Validate input

**Everything in the HTTP request can be manipulated** 

Use PHP's ctype and filter extensions

