

Basic Techniques for Securing the Apps

1. Filter input

- a. [trim\(\)](#)
- b. [Prepared statements](#)
- c. [filters](#)
 - i. [filter_var\(\)](#)
 - ii. [Validate filters](#)
 - iii. [Sanitize filters](#) + [strip_tags\(\)](#)

2. Escape/Sanitize output – *Pay attention to not escape the data more than once, you must escape only when you received it or when you need to output it!*

- a. [htmlentities\(\)](#)
- b. [htmlspecialchars\(\)](#)
- c. [addslashes\(\)](#)

The problem with *htmlentities()* is that it is not very powerful, in fact, it does not escape **single quotes**, cannot detect the character set and does not validate HTML as well. **To solve this problem –**

- The first argument that this function accepts is the string we need to sanitize.
- The second one must include a flag, in our case we want to use the **ENT_QUOTES** constant - **It prompts the function to encode single quotes.**
- Eventually, the last argument allows you to specify **the character set** you are using in your application.

A basic example would look like this:

```
echo htmlentities($string, ENT_QUOTES, 'UTF-8');
```

3. Encrypt sensitive data – *user passwords are never saved in the data base without encryption!*

- a. [password hash\(\)](#)

[more](#)