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PHP static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your PHP code

All rules 268


 Vulnerability 40











 Bug 51

 Security Hotspot 33

 Code Smell 144

Tags ▾


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Single-character alternations in regular expressions should be replaced with character classes

Reluctant quantifiers in regular expressions should be followed by an expression that can't match the empty string

Character classes in regular expressions should not contain the same character twice

Regular expressions should not be too complicated

PHPUnit assertTrue/assertFalse should be simplified to the corresponding dedicated assertion

Methods should not have identical implementations

Functions should use "return" consistently

Assertion arguments should be passed in the correct order

Ternary operators should not be nested

Reflection should not be used to increase accessibility of classes, methods, or fields

Authorizations should be based on strong decisions

Analyze your code

 Vulnerability

 Major 

 cwe owasp

Authorizations granted or not to users to access resources of an application should be based on strong decisions. For instance, checking whether the user is authenticated or not, has the right roles/privileges. It may also depend on the user's location, or the date, time when the user requests access.

Noncompliant Code Example

In a Symfony web application:

- the `vote` method of a `VoterInterface` type is not compliant when it returns only an affirmative decision (`ACCESS_GRANTED`):

```
class NoncompliantVoterInterface implements VoterInterface
{
    public function vote(TokenInterface $token, $subject)
    {
        return self::ACCESS_GRANTED; // Noncompliant
    }
}
```

- the `voteOnAttribute` method of a `Voter` type is not compliant when it returns only an affirmative decision (`true`):






```
class NoncompliantVoter extends Voter
{
    protected function supports(string $attribute, $subject)
    {
        return true;
    }

    protected function voteOnAttribute(string $attribute, $subject)
    {
        return true; // Noncompliant
    }
}
```

In a Laravel web application:

- the `define`, `before`, and `after` methods of a `Gate` are not compliant when they return only an affirmative decision (`true` or `Response::allow()`):

```
class NoncompliantGuard
{
    public function boot()
    {
        Gate::define('xxx', function ($user) {
            return true; // Noncompliant
        });
    }
}
```

 Code Smell
Multiline blocks should be enclosed in curly braces
 Code Smell
Parameters should be passed in the correct order
 Code Smell
Classes named like "Exception" should extend "Exception" or a subclass
 Code Smell
Two branches in a conditional structure should not have exactly the same implementation
 Code Smell

```
});

Gate::define('xxx', function ($user) {
    return Response::allow(); // Noncompliant
});
}
```

Compliant Solution

In a Symfony web application:

- the vote method of a **VoterInterface** type should return a negative decision (ACCESS_DENIED) or abstain from making a decision (ACCESS_ABSTAIN):

```
class CompliantVoterInterface implements VoterInterface
{
    public function vote(TokenInterface $token, $subject)
    {
        if (foo()) {
            return self::ACCESS_GRANTED; // Compliant
        } else if (bar()) {
            return self::ACCESS_ABSTAIN;
        }
        return self::ACCESS_DENIED;
    }
}
```

- the voteOnAttribute method of a **Voter** type should return a negative decision (false):

```
class CompliantVoter extends Voter
{
    protected function supports(string $attribute, $subject)
    {
        return true;
    }

    protected function voteOnAttribute(string $attribute, $subject, TokenInterface $token)
    {
        if (foo()) {
            return true; // Compliant
        }
        return false;
    }
}
```

In a Laravel web application:

- the define, before, and after methods of a **Gate** should return a negative decision (false or Response::deny()) or abstain from making a decision (null):

```
class NoncompliantGuard
{
    public function boot()
    {
        Gate::define('xxx', function ($user) {
            if (foo()) {
                return true; // Compliant
            }
            return false;
        });

        Gate::define('xxx', function ($user) {
            if (foo()) {
                return Response::allow(); // Compliant
            }
            return Response::deny();
        });
    }
}
```

See

- [OWASP Top 10 2021 Category A1](#) - Broken Access Control
- [OWASP Top 10 2017 Category A5](#) - Broken Access Control
- [MITRE, CWE-285](#) - Improper Authorization

Available In:

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