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TypeScript static code analysis

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

All rules 279 | Vulnerability 27 | Bug 51 | Security Hotspot 43 | Code Smell 158 | Quick Fix 50

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The "any" type should not be used
Code Smell

"for in" should not be used with iterables
Code Smell

Functions should use "return" consistently
Code Smell

"arguments" should not be accessed directly
Code Smell

Comparison operators should not be used with strings
Code Smell

Private properties that are only assigned in the constructor or at declaration should be "readonly"
Code Smell

Property getters and setters should come in pairs
Code Smell

JavaScript parser failure
Code Smell

The ternary operator should not be used
Code Smell

"===" and "!==" should be used instead of "==" and "!="
Code Smell

Functions should not have too many lines of code
Code Smell

Track comments matching a regular expression

"delete" should not be used on arrays

Analyze your code

Code Smell Major

The `delete` operator can be used to remove a property from any object. Arrays are objects, so the `delete` operator can be used here too, but if it is, a hole will be left in the array because the indexes/keys won't be shifted to reflect the deletion.

The proper method for removing an element at a certain index would be:

- `Array.prototype.splice` - add/remove elements from the array
- `Array.prototype.pop` - add/remove elements from the end of the array
- `Array.prototype.shift` - add/remove elements from the beginning of the array

Noncompliant Code Example

```
var myArray = ['a', 'b', 'c', 'd'];

delete myArray[2];  // Noncompliant. myArray => ['a', 'b', u
console.log(myArray[2]); // expected value was 'd' but outpu
```

Compliant Solution

```
var myArray = ['a', 'b', 'c', 'd'];

// removes 1 element from index 2
removed = myArray.splice(2, 1);  // myArray => ['a', 'b', 'd
console.log(myArray[2]); // outputs 'd'
```

Available In:
sonarlint | sonarcloud | sonarqube

Code Smell

Statements should be on separate lines

Code Smell

Magic numbers should not be used

Code Smell

Collapsible "if" statements should be merged

Code Smell

Standard outputs should not be used directly to log anything