

POSEIDON PHP4 CODE GENERATION PLUGIN GUIDE

This guide is based on the PHP4 Manual, available at: <http://www.php.net/docs.php>

General Rules

- The only classifier in PHP4 is `Class`
- PHP4 `Class` can not participate in an Association.
- There is no Exception in PHP4.
- There are two files generated for each Class generation process:
 1. `.inc` file that contains class declaration
 2. `.php` file which includes related `.inc` on its first line

Tagged values

The following tagged value keys are supported for PHP4 `Class`:

- `<<<` for Heredoc string
- `initial` for an initial value of an operation parameter
- `&` for operation parameter passed by reference
- `&` for a function that returns a reference

PHP4 Class Modelling Rules

- Use standard UML `Class`
- Only supports single inheritance

Class Signature

- There are no visibilities for Class Signature
- There are no modifiers for Class Signature

Class Attributes

- There are no visibilities for Class Attributes.
- Tagged values supported:

1. Heredoc

Tagged value = `<<<`, with value = `true`

Will return anything typed in the initial value with Heredoc string type:

For example:

```
$str = <<<EOD
Example of string
spanning multiple lines
using heredoc syntax.
EOD;
```

Class Operations

- There are no visibilities for Class Operations.
- Tagged values supported:

1. Parameter initial value

Tagged value= 'initial value', with value = (*specified parameter initial value*).

For example:

```
class ConstructorCart extends Cart
{
    function ConstructorCart($item = "10", $num = 1)
    {
        $this->add_item ($item, $num);
    }
}
```

2. Parameter passed by reference

Tagged value= '&' with value='true' in the parameter signature.

For example:

```
<?php
function foo (&$var)
{
    $var++;
}

$a=5;
foo ($a);
// $a is 6 here
?>
```

3. Function returns a reference

Tagged value= '&' with value='true' in the operation signature.

For example:

```
<?php
function &returns_reference()
{
    return $someref;
}

$newref =& returns_reference();
?>
```