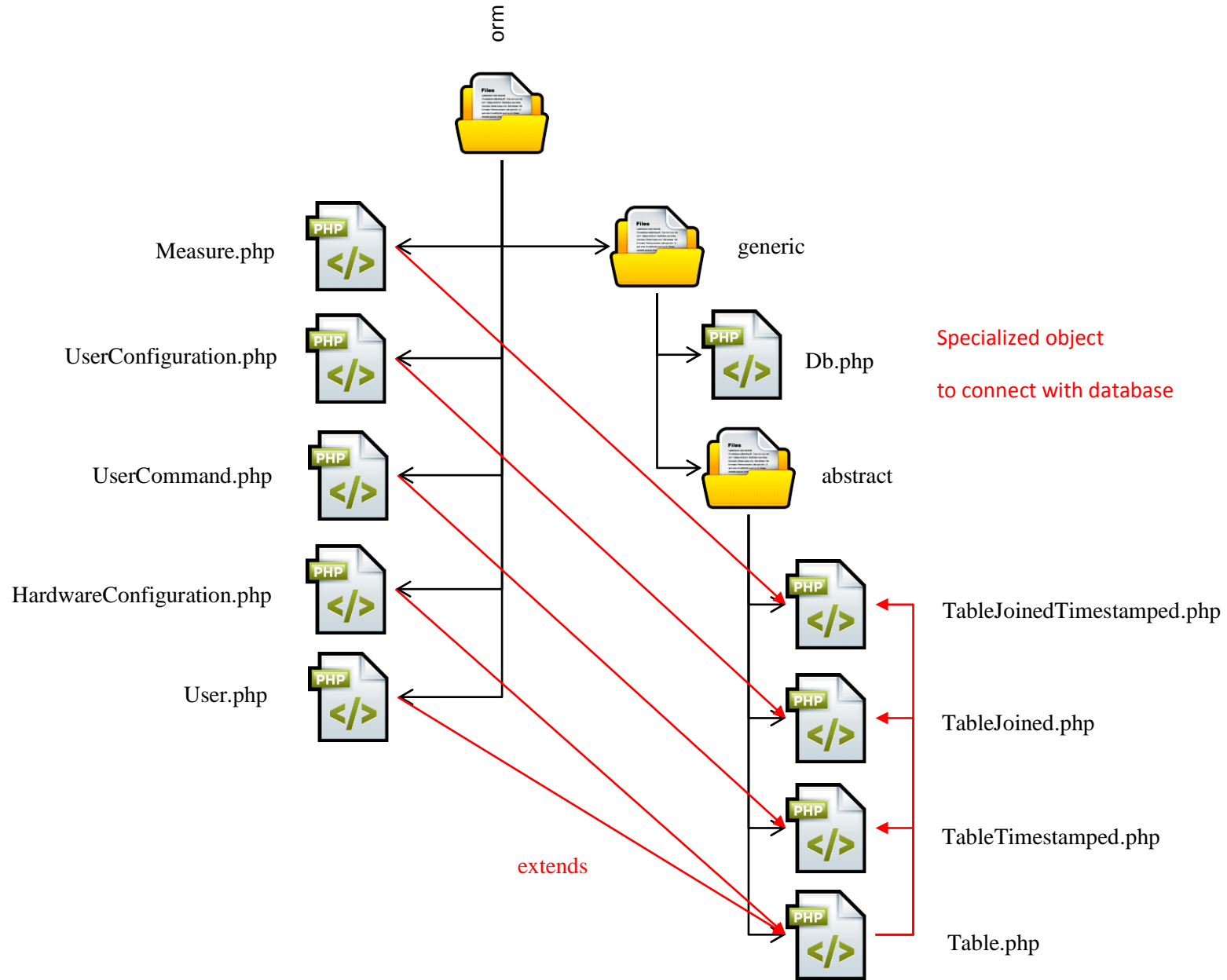


Specialized object to communicate with database



Abstract object to communicate with database

Add a new server access for ressource

To have access to a new ressource (like user account for the localhost server) we have to :

- Create a new repository in www (useraccount make an access to <http://localhost/useraccount>)
- Make a .htaccess file with (I use the same schema for all ressources)

```
RewriteEngine on
RewriteCond %{REQUEST_FILENAME} !-f
RewriteRule .* state-machine.php/$0 [L]
```

- Make the state-machine.php who analyse the http method and the user account login

```
<?php
session_start();
//Check the user authorization
if(isset($_SESSION['user']))
{
    //Check the HTTP Verb and select the right header
    switch($_SERVER['REQUEST_METHOD']){
        case 'GET':
            require_once('get.php');
            break;
        case 'PUT':
            header('HTTP/1.1 405 Method Not Allowed');
            $output['code'] = 405.1;
            $output['message'] = 'Methode '.$_SERVER['REQUEST_METHOD'].' not allowed';
            break;
        case 'POST':
            header('HTTP/1.1 405 Method Not Allowed');
            $output['code'] = 405.1;
            $output['message'] = 'Methode '.$_SERVER['REQUEST_METHOD'].' not allowed';
            break;
        case 'DELETE':
            header('HTTP/1.1 405 Method Not Allowed');
            $output['code'] = 405.1;
            $output['message'] = 'Methode '.$_SERVER['REQUEST_METHOD'].' not allowed';
            break;
        default:
            header('HTTP/1.1 405 Method Not Allowed');
            $output['code'] = 405.1;
            $output['message'] = 'Methode '.$_SERVER['REQUEST_METHOD'].' not allowed';
            break;
    }
}
```

```
//User are not authorized
}else{
    header('HTTP/1.1 401 Unauthorized');

    $output['code'] = 401;
    $output['message'] = 'You need to be identificated to have access to this data';
}
header('Content-Type: application/json');
echo json_encode($output);
?>
```

- Create all file needed to analyse and execute command (for exemple use a orm/Measure.php object to select all temperature measures and respond with JSON format)

Add a new php object to manipulate Database

In the repository form we have all object used to manipulate database.

Generic and abstract

Db.php

Contains all function and information to connect the database, change following lines to match with your database information

```
$this->host = "localhost";  
$this->user = "root";  
$this->password = "root";  
$this->bd_name = "plashboard";
```

Abstract

Contains model to select, update, delete or insert data in database

Table.php

Base of all object, have function to :

- select all in the order of insertion
- select x first inserted
- select all in the order of insertion with condition
- select x first inserted with condition
- insert data
- delete data
- update data

All object extended this class have to initialise this variable

```
protected $db; //!< Database  
protected $name; //!< table name  
protected $fields; //!< Field name in database and name userfrindly to respond  
protected $all; //!< Redifine all selection with user friendly name
```

TableJoined.php

All the same of table but join an other table to the selection

```
protected $name_joined; //!< table name of second table  
protected $field_joined; //!< field to join table 2
```

TableTimestamped.php

All the same but order with the timestamp field to change order of selection

TableJoinedTimestamped.php

A fusion of TableJoined.php and TableTimestamped.php

Object

All concret object who communicate with database extends one of previous abstract class and just initialise variable.