

Redirect all ressources request to state machine

State machine analyse request method

Users send request to the server

Select the correct file to analyse parameters

Php abstract define communication with database

More information below

Local database

User

User

User



abstract



orm

Use specialized object to communicate with database



usercommands

Specialized object extends abstract



Db.php

orm



Measure.php

UserConfiguration.php

UserCommand.php

HardwareConfiguration.php

User.php

generic

abstract

TableJoinedTimestamped.php

TableJoined.php

TableTimestamped.php

Table.php

Specialized object to communicate with database

Specialized object

to connect with database

Abstract object to communicate with database

extends

# 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 repositorie 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 orm 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.