

CX Framework

Version 0.0.2

My Common name spaces:

```
\cx\app\view – Views
\x\model\NAME OF MODEL Class – Your DB Model
\x\database\model – Generic Database Model – Object for use with PDO
\x\app\main_functions::METHOD TO USE (Note :: for static methods!)
\x\common\crypt::make_hash($data);
```

Config data:

```
Setting multiple things with data: cx_configure::set('KEY', array('Akey'=>'Data','key2'=>'D2'));
cx_configure::set('cx', array(
    'version' => '0.0.2',
    'login' => 'login_', // Name for login session variable, note: CX_SESS is will be added to the prefix
));
Getting data from an Array: cx_configure::a_get('KEY','ARRAY KEY NAME');
echo cx_configure::a_get('cx','version'); // Displays version #
```

```
Setting one item: cx_configure::set('AUTHOR','Bob');
Getting NON – ARRAY data: cx_configure::get('AUTHOR');
```

So, `cx_configure::a_get('CONFIG KEY', 'Array keyname')` is for getting the config key from an array, and `get(CONFIG KEY)` is for getting Non-Array Data or returns the entire Array of CONFIG KEY.

Creating a Controller:

```
class cx_loader_FOLDERNAME_FILENAME extends cx\app\app {
// ex: class cx_loader_app_testing extends cx\app\app {
// file: ProjectName/controllers/app/testing.php
    public function index() {
        // code....
// URL = http://localhost/PROJECTFOLDER/FOLDERNAME/FILENAME/METHODNAME.html
        // URL EX = http://localhost/newtoolz/app/testing/index.html
    }
}
```

Working with Session Data:

```
$this->session->set_session_var('credits', 5); // = $_SESSION[CX_SESS . 'credits'] = 5;
$this->session->session_var('credits'); // = $_SESSION[CX_SESS . 'credits'] ....
```

Working with Input:

See file: dealertoolz/cx/classes/cx/app/request.php

\$this->request->METHOD... where METHOD is listed below:

is_ajax() // Returns true if AJAX request

get_var('fname'); // same as **\$_GET['fname']**

post_var('fname'); // same as **\$_POST['fname']**

request_var('fname'); // same as **\$_REQUEST['fname']** – Do not use as it incurs Security vulnerabilities

cookie_var('auth'); // Reads Cookie named auth, returns the content

clean_email(\$var); // Sanitizes Email addresses to be safe

encode_get_var(\$data); // Does an URL Encode and Sanitizes it, use before setting dynamic a URI

GET Variable in page.

decode_get_var(\$this->request->get_var('fname')); // Un-encodes URI data, that was encoded...

encode_clean(\$content); // Uses htmlentities on the data, so it can be outputted in HTML page, this will prevent XSS Attacks!!!

decode_clean(\$data); // Uses html_entity_decode...

set_cookie_var(\$var, \$content, \$expires, "days"); // \$var is name of Cookie, \$content may be an Array, \$expires is the number of Days/Hours..., “days” is for Days, “hours” is for Hours...

Unsets, all **\$_POST** variables that are not in the exception array, see below:

set_allowed(array('year'=>'number','firstname','lastname'), 'post'); // Keeps ONLY: **\$_POST['year']**, ...
firstname, and **lastname** !!!

Preventing Cross Site Attacks:

get_csrf_token(); // Return the CSRF Token for use in JavaScript POST...

echo do_csrf_token(); // Inserts an Hidden Input field into HTML with the Security Token

verify_csrf_token(); // Used in Controller to verify page is from a Valid User/Browser...

get_json_post_data(\$return_as_array); // \$return_as_array, if true returns an JQUERY POST array, if false returns an JQUERY POST Object...

/* To decode JQuery encoded objects, arrays, strings, int, bool types.

The content must be of application/json. */

compair_it(\$var, \$var2); // Checks if two strings are Equal

s_lowercase_trim(\$var); // Returns lowercase Trimmed String

is_valid_id(\$var); // Checks if ID is a number over the Value of Zero

is_not_valid_id(\$var) // Checks if ID is INVALID (Value below One)

is_int_set(\$var); // Checks if Number is NOT equal to -1

is_int_not_set(\$var); // Checks if Number is equal to -1

is_not_empty(\$var); // Checks if String is NOT Empty

is_set(\$var); // Checks if Variable was Set

is_empty(\$var); // Checks if Variable was NOT SET OR is Empty

is_not_set(\$var); // Checks if Variable was NOT Set

Setting View Output for Assets CSS/JS:

CX_BASE_REF – URI/URL to CX

PROJECT_BASE_REF – URI/URL to Project

Examples of usage:

```
$this->add_js(PROJECT_BASE_REF . '/assets/list_users.js'); // Adds Javascript
```

```
$this->add_css(CX_BASE_REF.'/assets/font-awesome/css/font-awesome.min.css'); // Adds CSS
```

```
// This next block of code, will include ssp_test.jsp → Note that this is JavaScript with PHP!!! Cool.
```

```
    $js_view = new \cx\app\javascript_view('app/testing/ssp_test'); // ssp_test.jsp
```

```
    $js = $js_view->fetch($this);
```

```
    $this->add_to_javascript($js);
```

Making a Short URI Link:

```
<a href="<?=$this->get_url("/app/" . DEFAULT_PROJECT, "logout");?>">Logout</a>
```

Note: `get_url("Route", "Method");`

URL Re-Directing:

```
cx_redirect_url($this->get_url('/app/' . DEFAULT_PROJECT, 'main'));)
```

```
// Route, Controller Method
```

Displaying a View:

```
// Controller Methods must be Public for them to work
public function show_name() {
// Get input
    $fname = $this->request->post_var('fname'); // $_POST['fname']
// Grap View File if any
    $view = new \cx\app\view('app'.DS.'index'); // ProjectViewDIR/app/index.php
// Add content, manually if desired, IE to avoid making a view file
    $view->content = 'Hello, World!';
// Set the template, if desired output is an HTML Page
    $view->set_template('page'); // Project DIR + '/templates/' + page.tpl.php
// Set any Error messages via set_error
    $this->set_errors(array('api'=>array('Login'=>'Failed to get user/pwd.')));
// Set Message for next page to see
    \cx\app\main_functions::set_message('Bad Username/Password!', 'danger');
// Set variables to pass to the View file
    $view->set('firstname', $fname);
// Lastly, display the View
    $view->fetch($this); // Please always put $this inside of fetch!!
}
```

Notes:

If you do not use a template, please echo \$this->scripts; // so JavaScript runs

Also, inside of your views: Do not use \$this->VAR; Use: \$local->VAR; or \$local->Method();

Database:

```
$this->load_model('users' . DS . 'users'); // Project Dir + "models/users/users.php"
```

```
$users = new cx\model\users();
```

```
$success = $users->is_user($username, $password); // Returns true if is user...
```

// OR without a Model do:

```
$this->load_model(); // Does Require db.php and model.php for Database to work!!
```

```
$db_options = array('table'=>'users', 'key'=>'id'); // Always, set table name and key field
```

```
$users = new cx\database\model($db_options);
```

```
$users->set_primary_key('username'); // Changes the field to load from key of 'id' to 'username'
```

```
$username = 'bob_586';
```

```
$password = 'FAKE_PWD';
```

```
$users->load($username); // Load will do A Select Query * WHERE
```

the Key is Equal to the Variable passed to the load method....

```
// Note: get_member('name of field') // fetches data from the SELECT Query
```

```
// Also, you may use get_members(); // Which returns the whole result set
```

```
if ($users->get_member($db_options['key']) > 0 &&
```

```
    $users->check_pwd($password, $users->get_member('password')) {
```

```
    echo 'Logged IN';
```

```
} else {
```

```
    echo 'BAD PASSWORD or USERNAME';
```

```
}
```

Saving Data to the Database:

```
// Do DB Code...
```

```
// Load....
```

```
$users->set_member('fname', 'Bobby'); // Sets the field fname to Bobby
```

```
$success = $this->save(); // Will Insert data if Primary key is empty, else Updates...
```

Example of a Database Model here we will create a testing model:

Note: Just change the class name to your name of the model file....

```
namespace cx\model;
use cx\database\model as the_model;
use cx\common\crypt as crypt;

class testing extends the_model {

    protected $table = 'test';
    protected $key = 'id';

    public function __construct($options = array()) {
        $options['table'] = $this->table;
        $options['key'] = $this->key;
        parent::__construct($options);
    }

    public function caching() {
        return false;
    }

    public function get_test($id) {
        $table = 'test';
        $options['fields'] = "*";
        $options['fetch'] = "row";

        $bind = array(":id" => $id);
        $options['where'] = "`id` = :id";

        $data = $this->database->select($table, $options, $bind); // See file: cx/classes/cx/database/db.php
        return $data['data'];
    }

}
```

CURL example:

```
public function test_curl() {  
    $curl = $this->load_class('cx\app\cx_curl');  
    $curl->hostname = 'localhost';  
    $curl->port = 80;  
    $curl->ssl = false;  
    $curl->json_decode = true;  
    cx_dump($curl->post(PROJECT_BASE_REF. '/api/app/testing/ajax_name', array('name'=>'bob',  
'return'=>'json', 'debug'=>'true')));  
}
```

Basic Paginator

```
public function generic() {
    $this->load_model();
    $db_options = array('table'=>'test', 'key'=>'id');
    $test = new cx\database\model($db_options);
    // $options['where'] = " BLAKey=BLAData ";
    $options['fields'] = "`test`.`id`, `test`.`data`";
    $options['paginator'] = 'true';
    $test->load("", $options);

    $view = new \cx\app\view('app/testing/generic');
    $allow_html = false;
    $view->set('rows', $test->get_members($allow_html));
    if ($test->get_paginator_object() === false) { // Useful, if you disable paginator
        $view->set('no_results', false);
        $view->set('paginator_items', "");
        $view->set('paginator_links', "");
        $view->set('paginator_entries', "");
    } else {
        $view->set('no_results', ($test->get_paginator_object()->items_total > 0) ? false : true);
        $view->set('paginator_items', $test->get_paginator_object()->display_items_per_page());
        $view->set('paginator_links', $test->get_paginator_links());
        $view->set('paginator_entries', $test->get_paginator_object()->get_entries());
    }
    $view->set_template('page');
    $view->fetch($this);
}
```

View file:

```
<?php
if ($no_results === true) {

    $fade = true;
    echo \cx\app\main_functions::do_alert('No results!', 'info', $fade);

} else {

    echo $paginator_items . "<br><br>";

    foreach($rows as $row) {
        echo "ID#{$row['id']} : {$row['data']} <br>";
    }

    echo $paginator_links;
    echo $paginator_entries;
}
```