```
Anatomy of the framework
• /lib
           contains the main classes of the framework.
• /tmp
           where the temporary files should go. - better than the global /tmp folder
• /log
           where the session log file goes.
```

the applications folder. • /src • /src/apps : contains all the apps /src/config contains different config files for each environment • /src/helpers: shared helpers

• /src/layouts : shared partial views • /src/models: shared data model blueprints /src/tools : shared extra files/functions – needs to be included manually

publication folder. The only needs are the index.php and .htaccess file; after that, it's all about assets. /www

Anatomy of a config file

<!-- email of the admin of the deployed framework instance. Used mainly for security mails --> <admin>barbay.julien@gmail.com</admin> <!-- mysql database description --> <database> <host>127.0.0.1</host>

<env>

<name>mydb</name> <user>root</user> <pass>root</pass> </database> <!-- routing description --> <routes domain='mydomain.com'> <!-- specify subdomain's app --> <subdomain name='www'> <!-- specify app folder and app slug in the url --> <module name='front' url='/'> <debug /> <!-- enables debug log to be append to the html --> </module> </subdomain>

<!-- how to specify an other app in the framework --> <!-- 1/ other subdomain --> <subdomain name='api'> <module name='api' url='/' /> </subdomain>

<module name='api' url='/api' />

Anatomy of an app

the starter file of the application

Framework's bootstrap

where the controllers files are meant to be

<constant name='google_tag' value='UA000000' /> </constants>

<!-- 2/ specific app slug --> <subdomain name='www'>

</subdomain>

</routes>

</env>

/myapp/templates where the templates files are meant to be

/myapp/functions.php

/myapp/controllers

INI SETTINGS

php_value session.name 'SSID' php_value session.auto_start 0

php value session.use only cookies 1 php_value session.cookie_httponly 1 php_value session.hash_function 1

This means every physic file will be resolved

RewriteCond %{REQUEST_FILENAME} -f [OR] RewriteCond %{REQUEST_FILENAME} -d

It will include ./load.php which defines some constants:

/ (of the framework)

When the url is solved, 3 properties will be defined:

If the /myapp/i18n.xml file is found, it will be automatically loaded in App::\$i18n.

If not defined, the default front controller implemented will take care of the routing.

You can also implement a pre dispatch function which will be called before any front controller handling.

in the /src/apps folder, you get this micro structure:

<?php require('../lib/App.php'); //require the main file of the framework App::dispatch('dev'); //launches the app with the specified config file ?> And works with the following htaccess rules:

The publication folder contains the following index.php file:

php_value session.hash_bits_per_character 6 ##### REWRITING Options +FollowSymLinks RewriteEngine On RewriteBase /

If the first rule is not resolved, this one will be redirecting anything to the index file

So, any url that is not pointing a valid file will be redirected to the index, which will launch our framework's main class.

It opens the config file named with the argument passed in the dispatch function. Here, dispatch ('dev') will load /src/configs/dev.xml

Defines the DB properties as constants prefixed by DB_ and builds our routing data structure as described in the xml file

Step by step rendering process 1/ Autoload and definitions

ROOT

TMP

SRC

LYT

MDL

WWW

APPS

RewriteRule ^ - [L]

RewriteRule ^.+\$ index.php [L]

/src/helpers HLP It will also load any file in the MDL folder. 2/ Config file loading

/tmp

/www

/src/apps /src/layouts

/src/models

/src

App::\$real The name of the application as written in the url App::\$name The name of the folder of the application APPS.'/'.App::\$name App::\$path **TPL** App::\$path.'/templates'

5/ i18n file loading

6/ App starter file

4/ Extra data definition

3/ XML parsing

If the /myapp/functions.php file is found, it will be automatically included. If you want to to a pre-session start check, you can implement is special function in the functions.php file: <?php function launch() { } ?>

<?php function pre_dispatch(\$path_as_array) { } ?> 7/ Session start A special session manager starts a safe session

8a/ Front controller handling You can provide your own front controller by writing the following function in the functions.php file: <?php function handle(\$path_as_array) { return \$post_dispatch_data; } ?>

8b/ Embedded front controller The process splits the url by '/' and analyses the returned array. The typical pattern looks like: protocol://subdomain.mydomain.com/{app_slug}/controller_slug/action_slug/{extra_parameters}

Examples: http://www.mydomain.com/ include of /myapp/controllers/index.php call of index(\$parameters)

Therefor, a generic action can be called by implementing the following function in the controller:

http://www.mydomain.com/products/all

call of all(\$parameters)

include of /myapp/controllers/products.php

If the controller or the action are not found, a 404 header is sent.

10/ Display and post dispatch

<?php class Admin extends Model

public function __construct() {}

• If 'all' keyword, an * will be used for the SQL select.

\$admin->delete() will perform a DELETE statement targeted on the instance

Then, the abstract Model takes care of everything.

You can use those functions:

\$elements can be sereval types:

Session::ssid(\$object = null) returns a javascript string of the ssid. Keywords are: 'serialize' SSID={session_id} • '&serialize' &SSID={session_id}

> • 'input' null

Example:

There are some validators embedded in the framework. These can be usefull to provide safe data validators. You can call the global 'validate' function to return a new Validator instance and check it with the check(\$policy) function

Session::flash(\$key, \$value = null, \$ttl = 0) it will work as a one time getter/setter on the current session

If 1 argument is passed, it will act as a getter. Else, it will act as a setter. You can set the data freely, but can get it only once.

• \$DATETIME You can create your own policies with passing a special array in the check function: array('name' => 'mypolicy', 'regex' => '#^myregex+)\$#i', 'filters' => array(FILTER_SANITIZE_STRING));

\$admin->export() will clone the instance in a new non-typed object.

A safe session manager is already implemented. The session start is automatically called in the process. It has some usefull functions:

Session

Session::token() generates and returns a unique token. It will also be stored as 'token' flash var.

<input type='hidden' name='SSID' value='{session_id}' />

SSID: {session_id}

Session::get(\$key) it will work as a getter on the current session

Session::set(\$key, \$value) it will work as a setter on the current session

Session::set(\$key, \$value) it will work as a setter on the current session

It will be destroyed after. If a \$ttl is set, it will act as an expiry for the data.

Form validation

validate(\$email, true)->check(Validator::\$EMAIL)

The current policies available are:

• \$NOT EMPTY • \$ALPHANUMERIC

• \$NUMERIC • \$ENCODABLE • \$ZIPCODE • \$EMAIL • \$DATE

The boolean tells the validation process if the field is mandatory or not.

Otherwise, it will return \$object .SSID = {session_id}

• If associative array, the where clause will join any \$key = \$value with an AND statement • If string, will be added to the where clause without any security checks Examples: • Admin::get('all') will process a SELECT * statement FROM admin Admin::get(1) will process a SELECT * statement FROM admin WHERE id = 1 • Admin::get(array('login' => 'root', 'password => 'root)) will process a SELECT * statement FROM admin WHERE login LIKE root AND password LIKE root

Admin::get(\$elements = 'all', \$order = '', \$simplify = true) performs a custom SQL select statement.

• If numeric, the where clause will try to match the first field in the \$fields array with \$elements

Sorder is a shortcut to the ORDER BY clause. There's no need to type 'ORDER BY'. \$simplify is a small boolean that tells the code to returns an array even if there's only one record to be returned (usefull for foeach loops). **\$admin->save()** will insert or update the instance depending on the value of the first field of \$fields

Data models There's an abtract model that can be extended to manage models. You can write your a simple model like this: //mysql table protected static \$table = 'admin'; protected static \$fields = array(//mysql field => php type => 'int', ʻid' ʻlogin' => 'string',

'password' => 'string'

App::display(\$override = null) will end the rendering process and will loop through the override associative array to perform a key to value replacement.

The controller slug matches the controller php file name in the /myapp/controllers folder. In no controller is provided, the "index" controller is used. The action slug matches a function name that will be available right after the controller file include. If no action is provided, the "index" function is called.

<?php function wildcard(\$path_as_array) { return \$post_dispatch_data; } ?> This can be usefull for i18n slugs or special 404 handling. 9/ Do it your way

Lots of functions are available to help you writing your app. **App::render(\$tpl, \$data = null)** will be usefull to render a specific template. The \$data object will be passed into your template as the \$view object. App::partial(\$tpl, \$datas) will render the specified template with each entry of the \$datas array. A specific 'partial_index' property will be added to help counting the occurences.

App::link(\$to, \$application = ") will generate and return a valid link to \$to, according to the specified \$application. If not, current will be used. **App::module(\$application)** will generate and return a valid link to the base url of \$application App::redirect(\$url, \$code = 302, \$auto = true) will send a \$code Location header to \$url. if \$auto, \$url will be solved as App::link(\$url) App::crossdomain(\$url) will send an Allow Access Control header to \$url. This helps with ajax calls through differents subdomains

App::debug(\$content, \$level = 0) will log \$content into a special buffer which will be printed where the {DEBUG} keyword is when calling App::display **App::error(\$number, \$msg = ")** will send a \$number header. It'll also die with an <h1></h1> and the \$msg string. When you're done with your controller, the returned data can be used somewhere.

You can implement a post dispatch function which will be called after any front controller handling. <?php function pre_dispatch(\$post_dispatch_data) { } ?> It's usefull if you want to group ison encode output or anything else.

<!-- this needs to be append to the first 'www' subdomain node since it's using the same subdomain --> <!-- specific constant definition. each will be solved and defined as php constant -->