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# SuperSmash Framework



Project: SuperSmash Framework

Author: Jeroen Saey Startdate: 25-04-2012

Version: 1.0

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# Revision history

Date	Version	Description	Author
25-04-2012	1.0	SuperSmash Framework launched	Jeroen Saey

## Color information throughout the document.

Color	lcon	Description
blue		Used for namespaces
orange	E 3	Used for classes
red	•	Used for critical information
purple		Used for warning information
brown		Used for constants
green	*	Used for public functions
green	*	Used for private functions
green	*	Used for protected functions



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Settings that are changed inside the framework files can prevent your applications from running and can destroy the framework functionality.

It is advised that you don't change any more variables than named in the section:

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# 1. Preface

### 1.1 Scope

This document will be used as a reference to the SuperSmash Framework. This document will explain all the functions that can be used by the framework.

#### 1.2 Audience

The target audiences for this document are the developers who need to create a PHP application.

### 1.3 Purpose

This document describes the technical design and contains information necessary for technical understanding of the SuperSmash framework.



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## 2. Introduction

How to create PHP application without the overall picture?

This can easily be done by using frameworks. By using a framework you will have a clean directory structure and a clean way to maintain your application code. This framework uses the  $\underline{M}$  odel  $\underline{V}$  iew Controller architecture to keep everything simple and clean.

The main aim of the MVC architecture is to separate the business logic and application data from the presentation data to the user.

The main reason this framework was created is because we needed a simple and effective way to manage the code. Nowadays allot of frameworks are created. But the problem with most frameworks is that they are too big for a simple application. This framework tries to be small and effective for everyone.

Because coding needs to be simple!



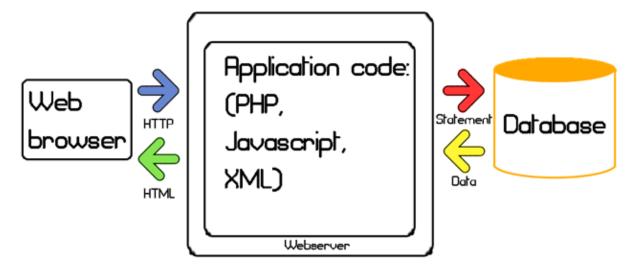
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# 3. System design

### 3.1 Communication flow between components



When a user connects to the website using a browser, the user builds a data request by navigating through PHP pages . The requests are send to the webserver and are processed by the framework . If needed the framework will request some data from the database by using specific statements.



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# 4. Settings that can be changed



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# 5. File information

#### 5.1 Root

#### **5.1.1 Index**

The index file will create the following constants:

Constant	Usage	Туре
APPLICATIONSCHOOSER	Will be used to show a start page of your applications	Boolean

When all the constant are loaded the index file will load the applications file. When the applications file is loaded the framework will set the specified application that the framework will use. Afterwards the framework will load the bootstrap file and starts the SuperSmash Framework.

#### 5.1.2 .htaccess

The .htaccess file (can) be present in the root folder of the system folder. Below you will find a default sample of the content of the file:

<IfModule mod\_rewrite.c>
RewriteEngine On
# Tell PHP that the mod\_rewrite module is ENABLED.
SetEnv HTTP\_MOD\_REWRITE On
# Dont redirect direct links to files or directories to the index.php
RewriteCond %{REQUEST\_FILENAME} !-f
RewriteCond %{REQUEST\_FILENAME} !-d
# Rewrite all other URLs to index.php/URL
RewriteRule ^(.\*)\$ index.php?url=\$1 [PT,L]



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### 5.2 System

#### **5.2.1** Applications

The applications file will be set in the namespace: settings .....

The file will create the following constants:

Constant	Usage	Type
DS	Will be used as the directory separator for files and folders	System
ROOT	Will be used to specify the root path of the framework	String
SYSTEM	Will be used to specify the system path of the framework	String
SUPERSMASHFRAMEWORK	Will be used to specify if the user has access to the page requested	Boolean

When all the constants are loaded the applications file will load the settings class. This class will be used to set some global settings for the framework. The class will hold:

- The actively loaded application
- An array with all the applications in the framework
- And the applications path for the SuperSmash Framework and user applications.

The Cookie class will be loaded and initialized.

The user application is loaded by using a cookie or session variable. (This is only the case when the APPLICATIONSCHOOSER Constant is set to true.



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#### 5.2.2 Bootstrap

The bootstrap file will load the global file to load all the global framework settings. After the file has been loaded the bootstrap file will load the registry file.

The bootstrap file will set the error handler to the SuperSmash Framework Error Handling System. The benchmark class gets loaded and the benchmark class will start measuring time of the System files. Afterwards the SuperSmash Framework will be loaded (Core files).

### 5.3 SuperSmash

#### 5.3.1 Global

The global file be set in the namespace: settings\settings .

This file creates several functions that can be accessed globally throughout the framework.

The autoloader function will automatically load classes that are not yet included/loaded in the SuperSmash framework.

The errorhandler function will automatically handle all the errors that where given by PHP. (By giving error information to the debugging class )

The show404 **\$\frac{1}{4}\$** function will render a 404 error page to the browser.

The logmessage function 🗱 will log all the errors and warnings to a specified (debug.log) filename.

The configuration function will create an array of all the settings in the configuration file.

The configurationset function \*\* will save a configuration setting to the configuration array.

The configurations ave function will save a configuration array to the configuration file.

The configurationload function \*\*will load a specified configuration from the configuration file.

The getinstance function will get an active instance of the controller class .

The geturlinformation function will return the website URL along with the extra URL information. (Loaded through the Router class ).

The loadclass function 🗱 will load a specified classname given by a parameter.

The redirect function will redirect the user to a specified location after an amount of time.



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#### 5.3.2 Registry

The registry file will hold all global variables that can be used for multiple objects. This class is used to easily pass data along objects.

This file creates several functions.

The static singleton function will be used to create a singleton registry object so it can be accessed from anywhere in the framework.

The get function will get a specified key from the registry and return it to the requested class.

The set function will set a specified key in the registry so it can be accessed from anywhere in the framework.

The load function will load a specified key and returns the singleton of it to the requested class.

The store function \* will store an object as a singleton object.

#### 5.3.3 Router

The router file is used to match specific URL statements so it can load and execute the specific requested controller. All the URL requests need to come from one central location namely the index file.

The checkroutingurl function will check how the URL should be loaded. If there is no controller named by the URL the default controller will be loaded defined in the configuration file.

The geturlinformation **‡** function will return all the URL information as an array.

The geturisegment **\$\frac{1}{2}\$** function will return the specified URI segment.



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#### 5.3.4 SuperSmash

The SuperSmash file is the core of the framework. This file will start the framework itself. While starting the framework initiates the router class and will create the specific controller(s) classes that needs to be loaded with the user application.
The SuperSmash file be set in the namespace: System\SuperSmash
The start 🗱 function will start the SuperSmash framework, by loading specific controllers and classes.
The performaction 🔅 function will perform an action on the specified controller. The database 🍀 function will return the database class 🗀 .
5.3.5 Benchmark
The benchmark file can be used as a timer class.  The benchmark file be set in the namespace: System\SuperSmash  This file creates several functions:
The start 🏶 function will start a specified timer.  The stop 🏶 function will stop a specified timer.  The elapsed 🏶 function will return the elapsed time between the start and stop of a timer.
The usage 🇱 function will return the memory the page used while loading.
<b>5.3.6 Language</b> The language file be set in the namespace: System\SuperSmash  The language file will also use the namespace: settings\settings  This file creates several functions:
The setlanguage function is used to set the specified application / framework language.  The load function is used to load the specified application / framework language in the array.  The get function is used to get the specified variable of the configuration array.  The getlanguages function is used to get an array of all the languages in the framework / application folder.
The scanlanguagefolders 🍀 function is used to scan and find all the installed languages.



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#### 5.3.7 Loader

The loader file is used to load the models, helpers, databases, libraries and views.
The loader file be set in the namespace: System\SuperSmash
The model 🗱 function will load the specified model.
The view 🗱 function will load the specified view and displays it to the browser.
The library function will be used to load library classes from the user application library or the
system library folders.
The database function will be used to setup a new database connection.
The helper function will be used to load a specified helper module from the user application
helpers or the system helpers folders

#### **5.3.8** Input

The input file is used to filter specific input from the user. The input file be set in the namespace: System\SuperSmash This file creates several functions: The post **\$\frac{1}{2}\$** function will return clean post variables. The get function will return clean get variables. The cleanelement **\$\frac{1}{2}\$** function will clean the specified variable. The cookie function will return the cookie variable. The setcookie **\$\frac{1}{2}\$** function will set the cookie variable. The useragent **\$\frac{1}{2}\$** function will get the browser from the user. The ipaddress from the user. The setrules function will create and set some cleaning rules. The clean function will clean the specified input The remove function will remove unwanted tags. The filtertags **\$\frac{1}{48}\$** function will strip certain tags of strings. The filterattribute function will strip certain tags of attributes. The decode function will decode the source to a clean string.



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#### 5.3.9 Configuration

The configuration file is used to get and set settings from the user configuration file.
The configuration file be set in the namespace: System\SuperSmash
The configuration file will also use the namespace: settings\settings .
This file creates several functions:
The get ‡ function will get a specified variable from the configuration file.
A A
The getall function will get all the variables that where set in the data array.
The set ‡ function will set a variable in the data array.
The load <b>\$\frac{1}{2}\$</b> function will load a specified configuration file and will set all the variables in the array.
The save 🗱 function will write all the configuration variables to the configuration file and will make
a backup of the old configuration file.
The revert ‡ function will revert the configuration file to the last saved configuration file.
5.4 Cookie
The cookie file is used to get and set cookies throughout the framework / application.
The cookie file be set in the namespace: System\SuperSmash .
This file creates several functions:
The static init ‡ function will initialize the cookie.
The static getdomain 🍀 function will get the current domain of the specified URL.
The static set <b>\$\frac{1}{48}\$</b> function will set the cookie with the given specified variables.
The static exists function will check if the specified cookie exists.
The static get 🗱 function will get a specified cookie.
The static remove function will remove a specified cookie.



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#### 5.4.1 Database

The database file is used to create a connection to the database.

This file creates several functions:

The open Function will open a connection to the specified database.

The log **‡** function will log an error message to the log file.

The showdebuginformation function will show the debug information to the screen (if debugging is enabled).

The drivers function will print all the available PDO drivers to the screen.

The query function will execute a query to the database.

The query\_secure function will execute a query to the database with anti SQL injection.

The query\_first **\$\frac{1}{2}\$** function gets the first row of a query in the database.

The query single **\$\frac{1}{48}\$** function gets the first table cell of a query in the database.

The rowcount **\$\frac{1}{4}\$** function will return the row count of a query in the database.

The columns function will return all the column names as an array from the database.

The insert function will insert a query and returns the ID of the inserted query.

The update function updates a specified table in the database.

The delete **\$\frac{1}{48}\$** function deletes a specified record from the database.

The execute function executes a specified stored procedure.

The getlatestid **\$\frac{1}{2}\$** function gets the latest id of the specified table from the database.

The showtables from a specified database.

The showdatabases from the server (and where you got permission to use them).

The geterror function will show the latest error that occurred in the connection.

The close **\$\frac{1}{2}\$** function will disconnect the database.

The stmntcount function will build a query that counts a specified query result.



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#### 5.4.2 Debug

The debug file is used to debug errors.

The debug file be set in the namespace: System\SuperSmash

The debug file will also use the namespace: settings\settings

This file creates several functions:

The triggererror **‡** function will trigger an error.

The showerror function will show a specified error page.

The logerror function will log the error to the error log file.

The log **\$\frac{1}{4}\$** function will log the message to the debugging log file.

The errorreporting **\*** function will enable or disable the error reporting.

The createerrorpage function will create an error page that will be shown in the browser.

The vardump function will create a dump of the specified message in a clean way so the user can easily see what an why the dump was created.

#### 5.4.3 Controller

The controller file is used as a base controller. (a controller extends from this one)

This file creates several functions:

The static getinstance function will get the current instance of the controller.

The \_beforeaction **\$\frac{1}{4}\$** function will be called before an action is taken.

The \_afteraction **‡** function will be called after an action is taken.



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#### 5.4.4 Session

The session file is used to debug errors.

The session file be set in the namespace: System\SuperSmash

The session file will also use the namespace: settings\settings

This file creates several functions:

The regenerateid function will regenerate a session id for the current session.

The setdata **‡** function will set a specified item in the session data array.

The unsetdata function will unset a specified item from the session data array.

The getdata function will get a specified item from the session data array.

The getalldata function will return all the data specified in the session data array.

The destroy **‡** function will destroy the current session and all its data in the database.

The read function will read a session from the database.

The create **\$\frac{1}{4}\$** function will create a new session and puts it in the database.

The\_update function will update the current session in the database.

The \_write function will write specified data to the session in the database.

The \_setcookie function will set a session cookie.

The \_cleanexpired function will remove all the expired sessions from the database.

The \_generateid function will generate a unique session id.

The \_checkidrenewal function will check if the session id needs to be renewed (and does so if necessary).

The \_flagforupdate function will flag the session so the session id gets updated at the next subsequent request.

The \_checkforupdateflag function will check if the session has requested to update (and does so if necessary).

The \_setconfig function set the configuration variables to the session class.



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### 5.5 Library

#### 5.5.1 Cache

The cache file is used to cache contents.

The cache file be set in the namespace: System\Library .

The cache file will also use the namespace: settings\settings .

This file creates several functions:

The static set\_path function will set the cache path.

The get function will read and return the content of a cached file.

The save function will save the contents into a give cache file.

The delete ‡ function will delete a specified cache file.

The clear **\$\frac{1}{2}\$** function will delete all the cached files.

#### 5.5.2 Email

The email file is used to send email messages.

The email file be set in the namespace: System\Library ......

This file creates several functions:

The send **\$\frac{1}{2}\$** function will send the email.

The to function will add a recipient to the email message.

The from function will add a sender to the email message.

The reply\_to **‡** function will add a reply to to the email message.

The cc function will add a cc to the email message.

The bcc 🏶 function will add a bcc to the email message.

The subject function will add a subject to the email message.

The message **\$\frac{1}{4}\$** function will add the message to the email headers.

The attachment function will add an attachment to the email message.

The build\_header 🌣 function will build the email headers.

The validate **\$\frac{1}{4}\$** function will validate if the specified email address is a valid email address.

The mime\_types **‡** function will get the mime type of an attachment file.

The clear function will clear the current email.



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#### 5.5.3 Validation

The validation file is used to cache contents.

The validation file be set in the namespace: System\Library ......

This file creates several functions:

The set function is used to set specified rules to certain \$\_POST variables.

The validate function will validate all the \$\_POST variables that have rules attached to them.

The get\_errors function will return an array with all the errors.

The set\_error function sets an error for the field.

The required **\$\frac{1}{2}\$** function determines if the string passed has any values.

The email function determines is the string is a valid email address.

The number function determines if the string passed is numeric.

The url \* function determines if the string passed is valid URL.

The float function determines if the string passed is a float.

The min function determines if the string passed has a minimum value of a given value.

The max function determines if the string passed has a maximum value of a given value.

The pattern **‡** function determines if the string passed contains the specified pattern.

