

MATRIX WEB ENGINE V 1.0

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Licence: GPL V3

Summary

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1.GENERAL DESCRIPTION

Matrix WebEngine is a Web Application Creation Framework using in a secure way as possible Web 2.0 Technologies to make easier the Applications Process Creation.

Matrix WebEngine is organised around MVC Pattern (Model View Controller) separating Data recorded in a DataBase, Layout and Graphic Ressources, Generic Data Treatment (Authentification etc...) and Application-Specific Data Treatment. Application Data Treatment Modules would be separated into a logical way.

The Model Part include Source Code dealing with the Data Model in order to make abstract as possible Acess to the Data and the DataBase.

The View Part Manages The Layout of The Application trough Theming, Templating and a WYSIWYG Editor; It's Possible to Modify Entirely the Application Look with the Associated Graphic Files Associated.

The Controller Part is in Charge of Dynamic Data Treatments. We could subdivide Controller Part into 3 parts :

- -The "Generic" Part (Authentification etc...)
- -The Application-Specific Part.
- -The Plugins

2.LOGICAL ORGANISATION

Matrix Web Engine Handles following Logical Concepts:
-CMS
-User
-Internationalisation
-Routing
-Theming, Templating
-Dynamic UI Creation Made Easier
-Evolutive Specifications
-Authentification
-Chopping,Salting,Crypting, Security Token
-Actions
-Errors
-Events
-States
-Log
-Modularisation
-WYSIWYG Layout Edition
-Graphic Edition Backend

3.TECHNOLOGIES AND PRE-REQUISITES

3.1 Pre-Requisites

In Order to get an effective understanding of Matrix WebEngine you may have the following pre requisites:

- -MVC Pattern (https://en.wikipedia.org/wiki/Model-view-controller)
- -HTML5 Marking (http://www.w3schools.com/html/html5_intro.asp)
- -CSS3 Cascading Styles (http://www.w3schools.com/css/css3_intro.asp)
- -PHP5 Programming Language (http://www.php.net/manual/fr/)
- -JavaScript Programming Language (http://www.w3schools.com/js/default.asp)
- -JQuery Library (http://www.w3schools.com/jquery/default.asp)
- -JqueryUI Interfaces (https://jqueryui.com/)

3.2 Technologies

Matrix WebEngine is based around the following Free Technologies:

- -PHP
- -MySQL
- -HTML5+CSS3
- -JQuery + JQueryUI

3.3 Third Part Librairies

- -D3js
- -Jq.MapJS

- -Jq.jsGantt
- -Jq.ColorPicker
- -Jq.GradientGen
- -Jq.CalendarGantt
- -Jq.CountDown
- -Jq.NiceEdit
- -Jq.SlickGrid
- -Jq.JsTree

4. FILE TREE AND DESCRIPTION

Lower Case is used in order to maximize Compatibility.
- css/: Cascading Style Sheets Files for Application Layout
- doc/: Technical Doc (This File) and general purposes tutorials
- files/: Edit files, Upload Jail
- imgs/: Pictures File
- includes/: Matrix WebEngine Framework
- js/: *.js JavaScript and Jquery/JqueryUI files
- modules/: Data Treatment *.php files
- sql/: MySQL DataBase Structure and Base Data
- templates/: Views Templates
- index.php : General Client FrontEnd

- MatrixEngine.Licence : GPL V3 Licence (en Version)

- MatrixEngine.README.fr : French README
- MatrixEngine.README.en : English README

5.DATA MODEL

Matrix WebEngine uses "NameSpaces" in MySQL tables naming in order to organise Concepts and Data:

- 'sys.*' System Name Space
- 'ev.*' Events Name Space
- 'i18n.*' Internationalisation Name Space
- 'ud.*' User Data Name Space
- 'plugin.*' Plugins Name Space
- 'logger.*' Logging Name Space

6.FUNCTIONS LIST AND DESCRIPTION

6.1.1

7.COMPATIBILITY

Chrome Last Version lexplorer 10>

8.TUTORIALS AND EXAMPLES

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