

# VMA – Documentation

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## **/index.php**

This file is located at the root of the application and is the established starting point or entry point into the application.

The application is designed in a very simplistic manner:

1. The root `index.php` file loads all the required libraries / resources required by the application as well as a console which facilitates end-user interaction and display of data.
2. Execution of the application takes place ultimately within this console (which is loaded into and by the root `index.php` page).

## **Core Dependencies Loaded by `index.php`**

1. `/paths.php`  
`paths.php` maps commonly used static URLs to PHP constants. This allows URLs to be used via these named constants without the developer having to always remember the actual relative paths. This is very useful with respect to the application's design where a lot of user interface components are included into the application's console. This means that URLs in the 'external' components must be defined relative to the site's root folder. This is essentially the purpose of `paths.php`.
2. `res/url/query_strings.php`  
This resource performs a function identical to `paths.php`. The main difference being that `paths.php` mapped static URLs to PHP constants, whereas `query_strings.php` maps dynamically created links (query parameters included) to PHP variables.
3. `model/config/env_rdbms.php`  
This resource contains connection information to the application's RDBMS.
4. `controller/vma_lib/libsmgr.php`  
This is a library that manages some aspects of the application's state in real time. This is experimental and will be expanded on in the future.

## 5. controller/vma\_lib/libsupport.php

This library provides mainly SQL query support to the application. The functions are designed to be as generic as possible, allowing for reuse in other un-related applications.

## 6. controller/vma\_lib/libsql.php

This library provides the overwhelming majority of the application's SQL query capability. The functions provided by this library are specific to the application.

## 7. controller/vma\_lib/libsearch.php

This library handles all the application's search functionality. It relies heavily on libsql.php, libsmgr.php, libformatting.php and to a lesser extent on libsupport.php.

## 8. controller/vma\_lib/libformatting.php

This library handles the overwhelming majority of the application's dynamic data display requirements. (This is un-related to UI<sup>1</sup> components display values). It takes SQL query results and formats it for display within the application's console.

## 9. controller/vma\_lib/libutils.php

This is a library that provides general utility functions that provide solutions for commonly occurring or repetitive functionality, as well as data validation.

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1 Graphical User Interface