

Bonanza

It's all about the plug-ins..

Bonanza is a CMS (Content Management System) written in PHP5, whose top features are:

- Customizability
- Extensibility
- Localizations to the bone
- User-friendliness
- Well documented for end-users and developers
- Security (Full protection against SQL attacks, JavaScript attacks, SPAM attacks, either vulgar, aggressive or retarded visitors)
- Formulate
- Minimal loading time
- Fast caching framework
- Advanced templates system

Core System

The system is a framework managing:

- Localizations
- Page Parsing
- Extensions

Directory Structure

- Extensions
 - Paginator
 - Search
- *index.php*
- Plugins
- System
 - Extensions
 - sys_acp
 - sys_blocker
 - sys_cacher
 - sys_core
 - sys_database
 - sys_debugger
 - sys_formulate
 - sys_layouter
 - sys_linker
 - sys_permissions
 - sys_settings
 - sys_templater
 - sys_textarea
 - sys_url_rewrite
 - sys_user
 - Plugins
 - AdminPanes

- AdminPanecategories
- DatabaseConnectors
- TextareaComponents
 - BBCode
 - Smilies
 - Attachments
- UserFields

Configuration

These settings are implemented at system level and cannot be changed without editing code. Most of them can be set upon installation of the core system.

- Database connection string (e.g. ‘mysql://root:pw@localhost/bonanza’)
- Extension auto-load (e.g. Array [sys_debugger, sys_cacher, sys_database])
- Extension Driver (e.g. sys_linker)
- Dir - Working Storage (e.g. ‘WorkingStorage’)

Extensions

What are extensions for, what can they do?

- Register *plugins* (to the matching pluginable)
- Register *pluginables* (to the system)
- Offer functions / libraries (for other extensions)

Note: *register* indicates that it only must be done once, meaning during the installation of the extension. The others are on the fly.

System Extensions

sys_acp

Requires sys_core
 Pluginables AdminPanecategories, AdminPanecategories
 Plug-ins PermissionFields, LinkerPages
 Description Administration panel, allowing easy management of quite everything
 Parse Pages Admin CP

sys_blocker

Requires sys_layout
 Pluginables Blocks
 Plugins AdminPages
 Description Manage blocks for insertion in the layout.

sys_cacher

Requires sys_debugger
 Pluginables CacheImplementations
 Description A framework allowing caching of any data

sys_core

Requires sys_debugger, sys_cacher, sys_database, sys_settings, sys_user, sys_permissions

Description	An empty extension allowing easy loading of the core extensions.
sys_database	
Requires	sys_debugger, sys_cacher
Pluginables	DatabaseConnectors
Plug-ins	CacheImplementations (for caching database queries)
Description	Manages your database connection.
sys_debugger	
Requires	<i>nothing</i>
Description	Handles debug information, catches errors and handles them in a clean way.
sys_formulate	
Requires	<i>nothing</i>
Libraries	class Formulate() – create a form to work with
Description	Allow abstract forms, allowing easy validation, inserting, updating and deleting of database records.
sys_layouter	
Requires	sys_core, sys_templater
Plug-ins	AdminPanels (layout management and editing)
Description	Layout manager
sys_linker	
Requires	sys_core
Pluginables	LinkerPages
Plug-ins	AdminPanels, PermissionFields
Description	Link manager, makes sure the correct page is loaded.
sys_permissions	
Requires	sys_debugger, sys_cacher, sys_database, sys_settings, sys_user
Pluginables	PermissionFields
Plug-ins	AdminPanels
Description	Set permissions per group/user
sys_settings	
Requires	sys_debugger, sys_cacher, sys_database
Pluginables	SettingCategories, SettingFields
Plug-ins	AdminPanels
Description	Management of various settings from various extensions
sys_templater	
Requires	sys_cacher
Pluginables	Templates
Plug-ins	CacheImplementations
Description	Templates engine, all html and content go through here
sys_textarea	

Requires	<i>nothing</i>
Pluginables	TextereaComponents
Plug-ins	AdminPanes (enable/disable and re-order components)
Libraries	class Textarea() – An object to parse a textarea
Description	Library to parse a textarea with all the additional features you wish

sys_url_rewrite

Requires	sys_core
Pluginables	UrlRewrites
Plug-ins	AdminPanes
Description	Allows URL rewriting using the apache mod with the same name

sys_user

Requires	sys_debugger, sys_cacher, sys_database, sys_settings
Pluginables	UserFields
Plug-ins	SearchFields
Parse Pages	Member List

Additional Default Extensions

Search

Requires	sys_core, sys_templater
Pluginables	SearchFields
Plug-ins	SettingFields, Blocks, LinkerPages
Description	Search for anything!!

Paginator

Requires	sys_core, , sys_templater
Plug-ins	AdminPanes, LinkerPages
Description	Management of static content

How Extensions Work

An extension may have the following structure.

- Search
 - *index.php*
 - Plugins
 - SettingFields
 - Blocks
 - LinkerPages
 - Pluginables
 - SearchFields

Upon installation of the extension, directories in the *plugins* folder will be submitted to the matching pluginable. The pluginable will process the data the way it needs to be done.

Extension indexes implement from the following abstract class.

```

abstract class Extension
{
    abstract private var requires;
    abstract private var install_queries;

    public function install() { }; // Runs install queries
    public function activate() { }; // Calls pluginables
    public function deactivate() { }; // Calls pluginables
    public function uninstall() { }; // Runs desinstall queries
}

```

Upon installation the pluginables will be called with an *install* code. Upon uninstalling, the pluginables will be called with an *uninstall* code. The uninstaller also calculates the opposite of the installation queries, to undo them again. Extensions can be deactivated without uninstalling.

index.php contains following structure.

```

class Search implements Extension
{
    private var requires = array("sys_core", "sys_templater");
    private var install_queries = array("");
}

```

If needed the `install()` and alike functions can be overwritten, if more needs to be done than just running queries.

Pluginables