

# The CMS Builder Cookbook

[Home](#)

[Read Excerpts](#)

[View the  
Table of Contents](#)

[All  
User Submitted  
CMS Plugins](#)

[CMSB Resources](#)

[Contact Us](#)


## THE COMPLETE CMSB COOKBOOK

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Section 1 (Recipes 001 - 100) - [Download PDF](#)  
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Section 3 (Recipes 201 - 300) - [Download PDF](#)  
Section 4 (Recipes 301 - 400) - [Download PDF](#)  
Section 5 (Recipes 401 - 500) - [Download PDF](#)  
Section 6 (Recipes 501 - 559) - [Download PDF](#)

**LAST UPDATE - Aug 8th, 2023**

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VERSION 3.05 - MAY 26, 2016 (FREE "POWERED BY" VERSION) - Mar 15th, 2017

\*\*\* May 26, 2016 - (Free "Powered By" Version)

**SERVER REQUIREMENTS:**

- This software version requires: PHP 5.5+ and MySQL 5.0+
- Future versions will require: PHP 5.6+ and MySQL 5.5+

- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### NEW FEATURES

- Free Version: CMS can now be used and installed without buying a license so long as "Powered By" link is displayed on website pages
- Branding Menu: License owners can now access all customization features under the Admin > Branding menu.
- License Agreement: Added section 4h requiring "Powered By HTML" be displayed unless users have a license

#### MINOR CHANGES

- CMS Menus: "Admin" menu has been re-organized into "CMS Setup" and "Admin Menu" menus
- Admin > General > Background Tasks: now shows full path to PHP binary for setting up cronjobs
- Admin > General > Background Tasks: Added options to temporarily disable background tasks when needed
- Admin > General > Server Info: Now shows installed PHP security modules (for debugging problems)
- Programmers: Added option to add icons before and after a CMS menu item
- Programmers: Added new plugin hooks: list\_preListTable, list\_postListTable
- Programmers: Added new plugin filters: list\_showListSchema, list\_showListRecords, listRow\_record, listRow\_showView, listRow\_showModify, listRow\_showErase

#### BUG FIXES

- CMS Menus: Fixed bugs where CMS menu didn't display correctly on mobile devices
- Reset Password page: Added adminUI header and footer
- Misc Code and other minor improvements

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### VERSION 3.04 - APRIL 26, 2016 (MAINTENANCE RELEASE) - Mar 15th, 2017

#### SERVER REQUIREMENTS:

- This software version requires: PHP 5.5+ and MySQL 5.0+
- Future versions will require: PHP 5.6+ and MySQL 5.5+
- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### BUG FIXES

- Fixed issue where CMS menu didn't work correctly on Safari browser
- Fixed issue where Collapsible Separator didn't work properly on IE browser
- Fixed issue where thumbnails didn't get correct file permissions on some servers
- Fixed issue where some errors didn't get logged when there was an out of memory error.
- Misc Code and other minor improvements

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### VERSION 3.03 - APRIL 20, 2016 (COLLAPSIBLE SEPARATORS & PHP 5.5) - Mar 15th, 2017

#### SERVER REQUIREMENTS:

- This software version requires: PHP 5.5+ and MySQL 5.0+
- Future versions will require: PHP 5.6+ and MySQL 5.5+
- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### NEW FEATURES

- Collapsible Separators: The separator bars can now be defined as "collapsible", and open or closed by default.
- Field Editor: Bootstrap style "Field Addons" (input-group-addons) can now be added around text fields
- PHP 5.5+ is now required, this is the oldest supported PHP version: <http://php.net/supported-versions.php>
- New Upload System: Rewrote upload system to support different upload storage methods in future

#### MINOR CHANGES

- CMS List page: Added "Update" button in advanced search

- CMS View page: Added "Edit" button
- Tab titles: CMS Menu page titles are now menu-specific which can help when working with multiple CMS tabs open
- Editors: List field options specified as text can now contain PHP code
- Programmers: Added new function tag() for programmatically generating HTML tags
- Programmers: getCategories() callback options can now be specified as anonymous functions
- Programmers: Added new plugin hooks: admin\_getRequestedAction, viewPage\_preShowViewFormRows, viewPage\_postShowViewFormRows
- Programmers: Added new plugin filters: post\_loadSchema, showWysiwygUploadPreview\_html, showField\_addRowClass, viewPageFieldRowHtml
- Programmers: Added new global variable \$GLOBALS['BACKUP\_DIR'] so plugins can override the backup directory path

#### BUG FIXES

- Upload List dragging: Fixed an issue where rows could not be dragged to the very top or bottom of the list when row heights differ
- CMS List page: Fixed issue that causes an error if there is no "Search Fields" set in: Section Editor > Searching
- CMS Menus: Fixed issue where field widths created in v2.xx weren't the correct size after v3.xx upgrade
- Header Menu Links: Fixed issue wherein My Account menu group doesn't stay on top if the menus have been modified
- Section Field Editor: Fixed bugs with using "Save and Copy" button where fieldname prefix get duplicated and not all field copies get saved
- Editors: Fixed issue wherein uploading a jpg file using iOS devices causes an error
- Editors: Fixed datepicker issue wherein the calendar popup appeared underneath other fields
- General Settings: Re-added "Disable Autocomplete" option
- General Settings: Fixed Upload directory and URL preview
- Misc Code and other minor improvements

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### VERSION 3.03 - APRIL 20, 2016 (COLLAPSIBLE SEPARATORS & PHP 5.5) - Mar 15th, 2017

#### SERVER REQUIREMENTS:

- This software version requires: PHP 5.5+ and MySQL 5.0+
- Future versions will require: PHP 5.6+ and MySQL 5.5+
- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### NEW FEATURES

- Collapsible Separators: The separator bars can now be defined as "collapsible", and open or closed by default.
- Field Editor: Bootstrap style "Field Addons" (input-group-addons) can now be added around text fields
- PHP 5.5+ is now required, this is the oldest supported PHP version: <http://php.net/supported-versions.php>
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viewPageFieldRow.html

- Programmers: Added new global variable \$GLOBALS['BACKUP\_DIR'] so plugins can override the backup directory path

#### BUG FIXES

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- CMS Menus: Fixed issue where field widths created in v2.xx weren't the correct size after v3.xx upgrade
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- Section Field Editor: Fixed bugs with using "Save and Copy" button where fieldname prefix get duplicated and not all field copies get saved
- Editors: Fixed issue wherein uploading a jpg file using iOS devices causes an error
- Editors: Fixed datepicker issue wherein the calendar popup appeared underneath other fields
- General Settings: Re-added "Disable Autocomplete" option
- General Settings: Fixed Upload directory and URL preview
- Misc Code and other minor improvements

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### VERSION 3.02 - FEBRUARY 3, 2016 (MAINTENANCE RELEASE) - Mar 15th, 2017

#### SERVER REQUIREMENTS:

- This software version requires: PHP 5.4.0+ and MySQL 5.0+
- Future versions will require: PHP 5.5.0+ and MySQL 5.5+
- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### MINOR CHANGES

- Section Editors: Updated "Field Width" option to be a pulldown with 5 sizes: tiny, small, medium, large, and full-width
- Section Editors: Updated "Field Width" pulldown to change size to show the user what the selected size will look like

#### BUG FIXES

- Section Editors: Fixed issue where all numeric fieldnames causes errors (All numeric fieldnames are no longer allowed)
- CMS Menus: Fixed issue where menu items would not appear when listed below a menu group the user didn't have access to
- CMS Upload Field: Fixed issue where black box appeared on top of page in Firefox when uploading
- CMS List page: Fixed issue where Preview button did not redirect to list page defined in section editors
- Misc design improvements including css, layout, colors and spacing
- Misc Code and other minor improvements

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### VERSION 3.01 - JANUARY 20, 2016 (MAINTENANCE RELEASE) - Mar 15th, 2017

#### SERVER REQUIREMENTS:

- This software version requires: PHP 5.4.0+ and MySQL 5.0+
- Future versions will require: PHP 5.5.0+ and MySQL 5.5+
- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### MINOR CHANGES

- Developers: New plugin hooks: getLastNumberInUrl\_removeFields
- Added resize cursor on hover to drag sort icon
- Install screen password field no longer displays entered characters (password field instead of text field)

#### BUG FIXES

- Upgrade code now defaults to "theme\_blue.css" if a non-existent theme is specified
- Fixed default settings file to use "theme\_blue.css" instead of invalid "theme\_classic.css"
- Fixed "how to install.txt" to list to correct PHP version required: v5.4+
- Fixed double htmlentities on CMS home dashboard page which caused single quotes to appear as &#039;
- Fixed issue that prevented some errors and menu notices from displaying correctly
- Fixed issue that caused menu items to sometimes display twice
- Fixed issue where clicking search button wouldn't show count of matching records
- Misc Code and other minor improvements

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### VERSION 3.00 - JANUARY 8, 2016 (RESPONSIVE UI) - Mar 15th, 2017

#### SERVER REQUIREMENTS:

- This software version requires: PHP 5.4.0+ and MySQL 5.0+
- Future versions will require: PHP 5.5.0+ and MySQL 5.5+
- NOTE: Some plugin may need to be updated when upgrading from v2.xx

#### NEW FEATURES

- Backend: New mobile-friendly responsive design based on Bootstrap

#### MINOR CHANGES

- CMS Menus: Menus can now be indented from 1-5 levels deep

- Programmers: Error Log renamed to "Developer Log" and now has a stacktrace field
- SwiftMailer from 4.3 to 5.4.1
- HTML Purifier from 4.4.0 to 4.7.0

#### CODE CHANGES & BUG FIXES

- Programmers: New adminUI() function for generating CMS backend pages.
- Programmers: New functions: htmlentities, ob\_capture, preg\_match\_get, mysql\_isConnected
- Programmers: New plugin hooks: adminUI\_args, edit\_createdByNumToName
- Deprecated Plugin Hooks: edit\_buttonsRight, list\_buttonsRight, view\_buttonsRight (use the new 'adminUI\_args' hook instead)
- Deprecated Plugin Hooks: header\_links (use the new 'menulinks\_myAccount' hook instead)
- Deprecated PHP Constants: START\_TIME (use \$\_SERVER['REQUEST\_TIME\_FLOAT'] instead)
- Programmers: Added hooks for: relatedRecords\_buttons
- Removed CMSB constant: START\_TIME (replaced with PHP 5.3 variable \$\_SERVER['REQUEST\_TIME\_FLOAT'])
- Misc Code and other minor improvements

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### VERSION 2.65 - APRIL 8, 2015 (MAINTENANCE RELEASE) - May 20th, 2015

\*\*\* Dave Edis says,

"This is a maintenance and security update, it's a recommended upgrade for all users and the last planned release on the version 2 branch.

We recommend you make sure you install this version to confirm that your server meets the requirements for version 3 of: PHP 5.4.0+ and MySQL 5.5+ (A notice will display at the top of "Admin > General" for servers running outdated and unsupported versions of PHP or MySQL)."

#### NEW SERVER REQUIREMENTS:

- This software version requires: PHP 5.2.4+ and MySQL 5.0+
- Future versions will require: PHP 5.4.0+ and MySQL 5.5+

#### NEW FEATURES

- Security: Added notice to top of "Admin > General" for servers running outdated and unsupported versions of PHP or MySQL
- Security: Autocomplete on login form is now enabled by default and can be disabled under Admin Menu
- Security: Added checkbox to toggle "Disable Autocomplete" browser function that saves usernames and passwords

#### MINOR CHANGES

- User Accounts: Added error checking to prevent admin users from accidentally disabling their own accounts
- Code: added "IN" operator support to mysql\_where() (automatically applied when value is an array)

#### CODE CHANGES & BUG FIXES

- CMS List Search fields: Custom Name|createdBy.fullname fields now only list users who have records in the section instead of all users
- Code: Added new function: utf8\_force()
- Code: Fixed encoding issue that caused false HTTP 418 security error on some hosting servers.
- Fixed Invalid UTF-8 Error "MySQL Error: Incorrect string value: '\x... caused when logging errors when a variable had binary data
- Fixed PHP 5.6 issue that prevented loading content from https:// secure websites with getPage() function
- Fixed \_error\_log schema so "Error Log" menu isn't listed twice on menu and is hidden under Section Editors
- Fixed config file .user.ini replacing # comments with ; comments, old-style # comments not supported by newer PHP versions
- Fixed logged error "E\_WARNING: session\_start(): Cannot send session cache limiter - headers already sent"
- Fixed PHP 5.5 warnings: E\_DEPRECATED: preg\_replace(): The /e modifier is deprecated, use preg\_replace\_callback instead
- Related Records: Fixed issue that prevented erasing related records from a view menu (no \_CSRFToken error)
- sendMessage: Improved catching and logging of errors related to sending messages
- Misc Code and other minor improvements

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### VERSION 2.64 - FEBRUARY 17, 2015 (UNIVERSAL ERROR LOGGING) - Mar 7th, 2015

SERVER REQUIREMENTS: Since v2.50 the requirements are: PHP 5.2.4+ and MySQL 5.0+

## NEW FEATURES

- Universal Error Logging: PHP errors on any CMS viewer page will be logged in backend CMS

## MINOR CHANGES

- Flash Uploader: Rewrote how Flash Uploader system works for better compatability with different browsers and servers

## CODE CHANGES & BUG FIXES

- BugFix: Fixed issue where AutoBackup plugin caused login error: No `_CSRFToken` exists
- Admin Menu > PhpInfo: Added Multibyte Language settings from `mb_get_info()` to bottom of output page for debugging
- CMS UI: Fixed issue on view pages where existing date fields with NULL value in MySQL would show current date instead of blank
- CMS UI: Fixed issue that prevented date picker from displaying in any language other than the default
- CMS UI: Fixed issue where date selector icon link was broken when used on "Advanced Search" on list pages
- CMS UI: Fixed an issue where "Create" button in related records list would fail from record view.
- Code Generator: Updated generated code to prevent issue where uploads with ampersands ("&") didn't always display correctly.
- Code: Fixed a bug in `emailTemplate_loadFromDB()`'s error reporting
- Code: Fixed encoding issue that caused false HTTP 418 security error on some hosting servers.
- Code: `getPage()` now connects to IPs directly to avoid bug where `fsockopen` can't connect to resolved ipv6 addresses
- Compatability: Fixed `filemtime(): stat failed` errors in backend admin when current working directory was different from script dir
- Compatability: We now call `opcache_invalidate()` on saved `/data/` files to prevent loading of old cached versions in PHP 5.5+ with Zend OPcache enabled
- Config: PHP `date.timezone` set to UTC by default to prevent errors in `.htaccess` and `php.ini`
- Email Templates: Added the following fields to list view: Reply-to, CC and BCC
- Flash Uploader: Fixed issue where flash uploader didn't work correctly with some browsers
- PHP Errors: Fixed `filemtime(): stat failed` errors in backend admin when current working directory was different from script dir
- PHP Sessions: Fixed issue where backup process or autobackup plugin would cause PHP sessions to be closed sometimes preventing logins
- PhoneGap Apps: Added workaround for issue where Android Apps don't send filenames when uploading so common image file extensions get automatically added if needed
- Security: Added blank `index.html` files to `/uploads/` folders to prevent directory browsing for servers that would otherwise allow that
- Security: Disabled the ability for users to login with plaintext value of encrypted password hash
- Security: Added rule to `.htaccess` files to disable directory indexes (file lists) for folders without index files.
- Uploads: Fixed issue where uploads with ampersands ("&") didn't always display correctly in the CMS interface.
- Viewers: Fixed issues where certain single record section viewers would show updated content when "Preview" was clicked.
- WYSIWYG: Fixed issue that had spellcheck results with UTF8 characters get double encoded (TinyMCE Bug #4700)
- Misc Code and other minor improvements

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**VERSION 2.63 - SEPTEMBER 3, 2014 - (MAINTENANCE RELEASE) - Sep 28th, 2014**

SERVER REQUIREMENTS: Since v2.50 the requirements are: PHP 5.2.4+ and MySQL 5.0+

**MINOR CHANGES**

- Upload Settings: Upload dir and url now shows live path preview for relative paths
- Upload Settings: New admin section "Server Upload Settings" shows PHP settings to assist in identifying server issues

**CODE CHANGES & BUG FIXES**

- Images: Fixed issue where transparent backgrounds weren't being saved when creating thumbnails of larger images
- Uploads: 100x faster renaming when larger number of duplicate filenames. Eg: photo.jpg yeilds: photo.jpg, photo\_001.jpg, photo\_002.jpg, etc
- Uploads: Added link to check if flash is installed beside flash uploader option under admin menu
- Install: Improved internet connectivity checking for web hosting servers (detects when server firewalls would prevent access to 3rd party APIs)
- Install: Improved PHP version detection check code so it works on PHP 4.4 (displays message to upgrade to PHP v5.2.4+)
- Codebase: getAbsolutePath() now renamed as absPath() and can calculate filepaths even if they don't exist (unlike PHP's realpath function)
- Misc Code and other minor improvements

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**VERSION 2.62 - JULY 15, 2014 - (SECURITY ENHANCEMENTS) - Aug 30th, 2014**

SERVER REQUIREMENTS: Since v2.50 the requirements are: PHP 5.2.4+ and MySQL 5.0+

**NEW FEATURES**

- Code Generator: Added new code generator for Category Menus
- Email Templates: Added new fields for: CC, BCC, and Reply-to
- Security: Added new "Security Settings" section under: Admin, General Settings
- Security: Custom generated "Security Tips" for the current server and connection are now displayed in red under "Security Settings"
- Security: Numerous security enhancements and new features (see below):

**SECURITY ENHANCEMENTS**

- Security: Password encryption is now required (ALL previous passwords are automatically encrypted on cms upgrade, a failed logins, or first login with a plaintext password)
- Security: To prevent identification, program version, build, and license info are now hidden from HTML footer code
- Security: expose\_php is now disabled in /cmsb/php.ini to prevent broadcasting PHP version (custom php.ini not supported on all servers)
- Security: Enabled secure cookies by default - all cookies set on HTTPS:// connections can't be read from HTTP:// connections
- Security: PHP Sessions now force and require secure cookies when created on HTTPS:// connections
- Security: All PHP errors and warnings are now logged in a common file for easy review.

- Security: PHP errors are now all logged in the same secure log file which is here: data/php\_error.log.php
- Security: Disabled browser autocomplete on all CMS forms with HTML5 attribute autocomplete="off" (previously done with javascript)
- Security: Disabled browser autocomplete on all password input fields with HTML5 attribute autocomplete="off"
- Security: Disabled browser autocomplete for browsers that ignore autocomplete with hidden field workaround: <http://crbug.com/352347#c11>
- Security: Added 1-3 second delay after failed login attempt to delay brute-force dictionary password attacks
- Security: Post-login redirects are now limited to application urls only
- Security: CMS uploads and assets (js libraries, etc) are now stored separately to prevent revealing admin folder name
- Security: CMS now displays a warning and automatically rejects form submissions from outside the CMS to prevent CSRF attacks
- Security: CMS now displays a warning and automatically rejects links from outside the CMS to prevent CSRF attacks
- Security: CMS now displays a warning for direct/manual links with no referer to prevent CSRF attacks
- Security: CMS menus now only accept POST form submissions to prevent CSRF (Cross-Site Request Forgery) attacks
- Security: CMS menus now check HTTP\_REFERER and only accept form submissions from the CMS url to prevent CSRF attacks
- Security: CMS menus now warn when no HTTP\_REFERER is sent to prevent CSRF and malicious URL attacks
- Security: CMS menus now check for unique session token on each form submission to prevent CSRF attacks

#### CODE CHANGES & BUG FIXES

- WYSIWYG: Fixed issue where wysiwyg wouldn't work on some servers that had output compression enabled
- WYSIWYG: Added workaround for servers with broken gzencode() function that always returned 'stream error'
- Bugfix: Added workaround for white-screen segfault/crash bug in PHP versions before 5.2.14 or 5.3.3 - <https://bugs.php.net/bug.php?id=51552>
- Bugfix: prevent realUrl() and redirectBrowserToUrl() from returning multiple slashes in some situations
- Bugfix: Fixed issue where cms list search fields showed as selected if they had a value of zero
- Bugfix: Fixed case of useDatePicker (uppercase P) in settings file, corrects issue that caused datepicker option to be unselectable in settings
- Bugfix: My Account menu wouldn't let you save settings unless you entered password again (should only be required when changing password)
- Bugfix: Default Account "Expiry Date" field year range now defaults to 5 years before/ahead of current date, not 2008-2016
- Bugfix: Background Tasks cron.php script will not dispatch any tasks unless software is installed.
- Bugfix: saveSettings() won't allow settings to be saved from command-line scripts until software has been installed from web
- Compatibility: Rewrote code that could not be uploaded to some GoDaddy FTP servers due to false-positive from server-side virus scanner.
- Compatibility: Fixed a problem with getPrevAndNextRecords() which caused it not to function correctly on some MySQL servers.
- Compatibility: Added improved detection for "Suhosin PHP patch" to Admin > General to help debugging of issues caused by Suhosin
- Compatibility: Improved outbound network connectivity test that is run on install to detect common network misconfigurations and provide tips.
- Plugins: Added new filters: showUploadPreview\_html
- Misc Code and other minor improvements



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## VERSION 2.61 - FEBRUARY 19, 2014 - (SECURITY UPDATE) - Aug 30th, 2014

### SECURITY UPDATE

- Update MySQL library to address security vulnerability introduced in v2.60

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## VERSION 2.60 - FEBRUARY 13, 2014 - (FIELD EDITOR ENHANCEMENTS) - May 2nd, 2014

### NEW FEATURES

- Field Editor: MySQL indexes can be added with a checkbox setting to speed up searches and sorting
- Field Editor: All MySQL Indexes for a table show are now shown under: Field Editor > Advanced (tab)
- Field Editor: Select from five different column types (or enter a custom type) to optimize data storage in MySQL
- Field Editor: MySQL column type and index status is now shown on field list page (for advanced users)
- CMS & Viewer Search: Added support for multi-value OR searches by adding [] after fieldname (see docs & section editor search tab)

### MINOR CHANGES

- Updated TinyMCE spellchecker plugin to use Google's new JSON API
- Editors: "Created By" users pulldown field is now sorted by username
- Languages: Updated Hebrew language translation file

### CODE CHANGES & BUG FIXES

- Code: Upgraded to jQuery 1.11.0 loading from jQuery CDN servers for speed (with local fallback)
- Code: Upgraded to jQuery UI 1.10.4 loading from jQuery CDN servers for speed (with local fallback)
- Code: Upgraded to TinyMCE 3.5.10 (Released: 2013-10-24) - fixes some IE11 issues
- Admin Settings: Fixed error with default values "Upload Folder Url must start with a slash! (eg: /uploads/)"
- Admin Settings: Program Url is now automatically set if it is blank
- Admin Backup: These log tables are now skipped during backup: `_outgoing_mail`, `_cron_log` (can be overridden with plugin filter `backupDatabase_skippedTables`)
- Category Menus: Added CSS classes to rows: `category_row`, `category_num_#`, `category_parent_#`, `category_depth_#`, `category_lineage#`
- CMS Menus: Image preview thumbnails are now limited in height so extremely tall images don't make page too long
- CMS Menus: Dates on list pages now display in whatever format is specified under: Admin > General > Regional Settings
- CMS Preview: Fixed issue where preview button would appear if "Website Prefix URL" was set but preview url was not.
- Code Generator: Removed HTML comment tags that were confusing some users in default code generated for uploads
- Compatibility: Updated workaround to `jquery.ajax` for hosts that incorrectly send "0" when no output should be returned
- Compatibility: Fixed PHP 5.5 warning: Deprecated: `preg_replace()`: The `/e` modifier is deprecated
- Editor Fields: tip for uploading multiple files no longer appears for upload fields which only allow one upload
- Email Templates: Wysiwyg now displays and saves full links including hostname
- Install: Admin accounts created during install now have their passwords encrypted properly (fixes a problem with Website Membership login)
- Images: Using new faster image resizing code by default

Outgoing Mail: Wysiwyg now displays and saves full links including hostname

- Outgoing Mail: wysiwyg now displays and saves full links including hostname
- Plugins: "System Plugins" are no longer loaded if CMS version is lower than required version
- Plugins: Added new filters: upload\_uploadDir, upload\_uploadUrl, listRow\_trClass
- Plugins: Added new actions: upload\_dirAndUrl
- Section Editors: Fixed error when saving single record sections: "Notice: Undefined index: \_listPage ..."
- Security: Disabled autocomplete on login username and password fields so sensitive data won't be remembered in browser
- Usability: Admin script now attempts to automatically detect when whitespace added during uploading might cause errors.
- Viewers: whereRecordNumberInUrl() now ignores Google AdWords auto-tagging values (gclid) when determining record numbers
- WYSIWYG: Updated Google Spellcheck to use new JSON API so it works again (XML API was discontinued)
- Misc Code and other minor improvements

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## VERSION 2.53 - APRIL 4, 2013 - (DEVELOPMENT SERVER ENHANCEMENTS) - May 2nd, 2014

SERVER REQUIREMENTS: Since v2.50 the requirements are: PHP 5.2.4+ and MySQL 5.0+

### NEW FEATURES

- Development Servers: Added install option to create separate settings files for development domains for easier migrations
- Development Servers: Added install option to support "prefix urls" such as /~username or /development/client-name for easier migrations
- Development Servers: Added new "Prefix Url" field under: Admin > General Settings > Directories & URLs
- Programmers: New /plugins/cron-example.php script shows how to run tasks at intervals such as once a day or once an minute.

### CODE CHANGES & BUG FIXES

- Section Editors: Viewer Urls must now all start with a /
- Languages: New "Developer Mode" under Admin > General now works when "Default" is selected as a language.
- Custom Upload Folders: Fixed "directory doesn't exist" error on CMS edit pages
- Misc Code and other minor improvements

Here are some notes from Dave Edis that might prove helpful:

We've just released CMSB v2.53 beta 1 (beta list members will get an email with a download link shortly).

The major new features are easier server moves and a sample cron plugin. Here's some details:

#### Development Servers

This update is mostly about development servers (also called staging servers) and making it easier to move files between development and live servers. If you're not already using a development server you should set one up, you'll save a lot of time not having to upload files after every change to see the result, and you will avoid breaking your clients live sites while developing features. We use the free package from <http://www.wampserver.com/> on a Windows PC. It's a combo Apache, MySQL, PHP package that installs in one click. Mac users can google for "MAMP" and if you're running Linux, you probably don't need any tips setting up a web server. ;)

#### Domain-based Settings Files

You've probably already found that sometimes you'll have to maintain files on a few servers while developing a site. You might develop on your internal server: <http://yourBigClient.yourWebCo.com/>, then have to upload to the clients beta site: <http://beta.yourBigClient.com/>, then finally upload to their live site when you're done: <http://www.yourBigClient.com/>. Normally you can just copy files from one server to another and everything will just work. But if these sites have different MySQL details (as they often do), and you copy a settings file from one site to

another you'll take down the whole site with an "Invalid MySQL Password" error.

The fix? We've added support for domain-based settings files so you can create a custom settings file that specifies the domain name like this: `/data/settings.yourbigclient.yourwebco.com.php` and it will automatically use that settings file for that domain only. This ensures you never overwrite live-server settings with dev-server settings (since they are stored in a separate file) and you can copy files from server to server without fear. We actually added this feature over 3 years ago in v2.02 but many people still don't use it (even some who work at interactivetools!) so for this version we added a checkbox to the install screen for development servers. It looks like this:

Use Custom Settings File [X] For this domain name only (localhost) use this setting file: `/data/settings.localhost.php`. Using a separate settings file for development servers ensures you never accidentally overwrite your live server settings when uploading CMS `/data/` files. Always use custom settings files for development servers only, not your live servers.

So if you're running on a non-live server (development, staging, beta, etc) make sure to check that box and you'll be much safer.

#### Website Prefix URL

Next up, the other thing we see a lot of is development servers that host websites under existing sub-folders. This could look like any of the following:

`http://yourWebCo.com/clients/2013/yourBigClient/` - developing client sites in a subfolder under your own website  
`http://localhost/clients/2013/yourBigClient/` - developing client sites on your own PC or an internal development server

`http://yourBigClient.com/beta2013/` - when your client has setup a beta folder for the new site

`http://1.1.1.1/~bigclie/` - When DNS hasn't moved yet and you have to use a `/~username/` preview url

If you've ever had to work with a site like this, you might have found yourself hardcoding `/~bigclie/` or a similar folder prefix into the HTML, only to have to go back later and remove it when you moved the files to the live server that didn't need that prefix.

Our fix in 2.53 for this is a new field available on both the install page and under: Admin > General. It looks like this:

Website Prefix URL [ \_\_\_\_\_ ] eg: `/~username` or `/development/client-name`

If your development server uses a different URL prefix than your live server you can specify it here. This prefix can be changed in the Admin Menu and will be automatically added to Viewer URLs and can be displayed with `<?php echo PREFIX_URL`

?

>. This will allow you to easily move files between a development and live server, even if they have different URL prefixes.

So if you've ever been stuck search and replacing URL prefixes before, now you can just use the above feature.

#### Example Cron Plugin (for programmers)

For the programmers, we've included a sample plugin in `/plugins/cron-example.php` that shows how to run a background task at a set interval such as once a day or once an minute. This is really useful if you need to build a custom site that sends out email updates once a night, expires auctions, imports or backs up data, sends out reminders or marketing emails once a month, etc.

We've built cron support into CMS Builder now, so it's way easier and more powerful than the standard cron/scheduled task features you get with hosting accounts. CMSB automatically shows you when all the scheduled tasks last run, when they're scheduled to run next, keeps a log of every task, and even records errors (even if your script/plugin dies or crashes) and emails you to tell you when there is a problem. And all you need to do to set it up is add a single line of code to your plugin telling it what function you want to run and how often. Like this:  
`addCronJob('emailSubscribers', "Send daily email updates", "how often to run");`

Try setting up cron and enabling the example plugin. You can find the Background Tasks menu here with instructions: `admin.php?menu=admin&action=general#background-tasks`

---

### VERSION 3.53- AUGUST 12, 2019 (MAINTENANCE RELEASE) - Aug 12th, 2019

#### BUG FIXES

- Allowed editing fields that start with an underscore.
- Fixed issue with WYSIWYG uploads when in demo mode.
- Fixed issue stopping upgrade when completing successfully.

---

## VERSION 2.52 - MARCH 18, 2013 - (SECURITY) - Aug 5th, 2013

### NEW FEATURES

- Sending Mail: Added support for SMTP authentication, unsecured, SSL secured, and TLS secured mail servers.
- Security: Added blacklist of top 10,000 common passwords. Found in /lib/login\_password\_blacklist.txt

### MINOR CHANGES

- Programmers: Added "Export showMessage() PHP" option to Email Templates menu under Advanced Commands
- Programmers: sendMessage() now logs message headers
- Programmers: Added new function nullIfFalse()
- Viewers: getLastNumberInUrl() now automatically ignores facebook added url data, eg: fb\_source, fb\_action\_ids, etc
- Usability: Whitespace is removed from beginning and end of username and password on login (to prevent copy and paste errors)
- Usability: Passwords that start or end with whitespace are no longer allowed.
- Security: Added plugin filter login\_newPasswordErrors to allow custom validation rules for new passwords
- Plugins: Section Editors > Advanced (tab) > Required Plugins, now only requires plugin filenames match (in case users rename plugin folders)

- Editors: Checkbox field descriptions can now contain PHP code

### CODE CHANGES & BUG FIXES

- Sending Mail: Added Swift Mailer v4.30 - Mailing library
- PHP Sessions: Added workaround to prevent PHP from creating 0-byte files in session folder
- CMS Preview: Fixed error "You don't have permissions to access this menu."
- Fixed loading problem when there were more than two chained selects on a section edit page.
- Fixed date field year range bug with modifying blank dates

- Fixed date field year range bug with modifying blank dates

- View Menus: Fixed bug where list values showed instead of labels when loading from another table
- Previously saved search keywords and sort orders are cleared on CMS logout
- Misc Code and other minor improvements

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## **VERSION 2.51 - FEBRUARY 7, 2013 - (SECURITY & MAINTENANCE UPDATES)** **- Aug 5th, 2013**

### NEW FEATURES

- Login Sessions: Login Timeout can be set to any duration under: Admin > General > Advanced
- Login Sessions: Switched Logins to use cookies instead of PHP sessions to prevent early expiry
- Security: Added option to restrict CMS access by IP address to: Admin > General > Advanced
- Security: Updated TinyMCE WYSIWYG Spellchecker to v2.0.6.1 (Released 2012-11-20 - Security Update)

### MINOR CHANGES

- WYSIWYG: Updated TinyMCE to v3.5.8 (Released 2012-11-20)
- Background Tasks: Added log search field "Completed: Any/Yes/No" for finding failed tasks
- Background Tasks: Failed tasks now send alert email to admin (max one email per hour)
- Email Templates: Reformatted list view to show all message details
- Email Messages: Automatically set 'Reply-To' to 'From' address (required by some email clients)
- Programmers: Added htmlPurify() function and HTML Purify library for filtering HTML
- Programmers: Added new function emailTemplate\_addToDB() for adding email templates
- Programmers: Added "Export templates as PHP" option to Email Templates menu under Advanced Commands

### CODE CHANGES & BUG FIXES

- Fixed file permissions error which reported "rename return value not boolean true or false"
- Misc Code and other minor improvements

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## **VERSION 2.50 - DECEMBER 5, 2012 - (LANGUAGE & TRANSLATION FEATURES)** **- Aug 5th, 2013**

\*\*\*\*SERVER REQUIREMENTS HAVE CHANGED\*\*\*\*

- The requirements for version 2.50 and later are: PHP 5.2.4+ and MySQL 5.0+
- For older servers use version 2.17 which requires: PHP 4.3.2+ and MySQL 4.1.7+

### NEW FEATURES

- Languages: Updated translation system and added more translatable text
- Languages: Plugin system now support translation files stored in /languages/ under each plugins folder

- Languages: CMS Admin menus now support translation files stored in /lib/languages/adminMenu/
- Languages: Updated "/lib/how\_to\_add\_languages.txt" file includes instructions for programmers on adding new language strings
- Languages: New "Developer Mode" under Admin > General automatically adds language strings to files as programmers code.
- Languages: New debug language "d|e|b|u|g" to help translators identify text that hasn't been added to translation system yet.
- Email Templates: Added new admin editor menu for CMS Password Reset email, and "email templates" that may be used by plugins.
- Background Tasks: Added new generic system running scheduled tasks/cronjobs with cron.php script for plugins
- favicon.ico: Add a favicon.ico file to the cms admin folder and it will be displayed by the browser when using the cms

#### MINOR CHANGES

- Wysiwyg: <style> tags are now supported within body content (required to style HTML emails).
- CMS Editor lists: Alternate account fields can be displayed with either: createdBy.username or otherAccountTable.username

#### CODE CHANGES & BUG FIXES

- Increased version to 2.50 to help identify versions with increased requirements (v2.5+ requires PHP/MySQL 5)
- Performance: Increased minimum PHP required to 5.2.4 (over 5 years old)
- Performance: Increased minimum MySQL required to 5.0.0 (over 8 years old)
- CMS List Search: Fixed issue where custom search fields sometimes wouldn't work (removed extra return chats from listPageSearchFields)
- Fixed Windows PHP "File exists" error that sometimes occurred when when renaming files
- Fixed issue where .swf files were being rejected as invalid when PHP returned a .swc file type
- Programmers: Added new functions: array\_keys\_prefix, contains, getValidationErrors, rename\_winsafe, file\_put\_contents\_atomic
- Login Code: Failed logins no longer erase PHP \$\_SESSION, now only the login data is removed.
- Editors: Updated dates are now shown on add and edit pages even if updatedByUserNum field isn't defined
- Settings: Custom settings files such as: /data/settings.example.com.php no longer require www. prefix
- Code: prettyDate() function now accepts "0000-00-00 00:00:00" and returns "never"
- Code: emailTemplate\_loadFromDB & emailTemplate\_replacePlaceholders() no longer double encodes HTML placeholders
- Code: login functions now automatically encrypt unencrypted passwords on failed front-end logins
- Misc Code and other minor improvements

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**VERSION 2.17 - SEPTEMBER 1, 2012 - (MAINTENANCE RELEASE) - Aug 5th, 2013**

**NEW FEATURES**

- Section Editors: You can now set the default records to show "Per Page" under the Advanced Tab

**MINOR CHANGES**

- Added utility function `getCurrentUserFromCMS()` to allow command-line scripts to easily check which user is logged in

**CODE CHANGES & BUG FIXES**

- Fixed issue where message encoding caused some email readers to display HTML sourcecode instead of proper message
- Fixed error when using viewers from command-line or cronjobs "Notice: Undefined index: SCRIPT\_NAME"
- Fixed error when using viewers from command-line or cronjobs "Notice: Undefined index: HTTP\_HOST"
- Misc Code and other minor improvements

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**VERSION 2.16 - AUGUST 28, 2012 (SPEED, MAIL, AND USABILITY IMPROVEMENTS) - Aug 29th, 2012**

**NEW FEATURES**

- Speed: Improved program speed by up to 60%
- Mail: Logging of outgoing mail now supported under: Admin > General Settings > Email Settings
- Sorting: Category menus can now be re-ordered with click and drag sorting

**MINOR CHANGES**

- Plugin filters: Added filters for: `userSectionAccess` and `userHasFieldAccess` for overriding access levels
- Plugin Actions: Added actions for: `list_postAdvancedSearch` for outputting code directly after the advanced search fields
- Compatibility: Fixed PHP 5.4.0+ warning "Function `get_magic_quotes_gpc()` is deprecated"
- Compatibility: Added upload error for images saved with CMYK palette since not all browsers can display them
- Compatibility: Set PHP `arg_separator.output` value to `&` so PHP `http_build_query()` function always works as expected
- Compatibility: Added workaround for Chrome browser bug when uploading "User Agent must be Flash, not..."
- Performance: Program data files (under `/data/` folder) now use a new faster loading data format
- Performance: Plugins loading code is now faster and more efficient
- Programmers: `isValidEmail()` function now returns an array of matched emails instead of just true
- Programmers: Added functions: `mysql_get_query`, `mysql_select_query`, `emailTemplate_loadFromDB`, `emailTemplate_replacePlaceholders`, `sendBackground`
- Field Editor: Date fields with blank start or end year range values now default to 5 years before and after current year

**CODE CHANGES & BUG FIXES**

- Code: Added alias function `mysql_escapeCSV()`
- Code: `sendMessage()` encodes message HTML as quoted-printable so they're easier to read when debugging (for programmers)
- Code: Updated `sendMessage` so iphone mail app could view messages with combined text/html parts correctly
- Fixed preview error "Preview isn't supported when website membership uses separate login or alternate table name."
- Fixed bug where Related Records field could cause fields below it on edit page to error or not to display correctly
- Changed internal template tags used by code generator to avoid conflicts when PHP `asp_tags` setting is enabled
- Fixed problems sending to emails which contained underscores
- Misc Code and other minor improvements

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**VERSION 2.15 - MAY 7, 2012 (NEW CODE GENERATOR) - Jun 12th, 2012**

**NEW FEATURES**

- Code Generator: Completely re-written code generator
- Code Generator: New code generator menus for: Combo Page, and RSS feeds
- Code Generator: New `addGenerator()` function for adding custom generators through plugins

- WYSIWYG: Updated TinyMCE to v3.5b3 (Released 2012-29-03) (Fixes Firefox 11 issues)

#### MINOR CHANGES

- Uploads: Upload file names are now saved in lower case for better cross platform compatibility
  - Uploads: When an upload filename already exists and ends in a number the number is now incremented to find a unique filename
  - Editors: When admins change the "Created By" user, now only users with access to the section are shown in the pulldown
  - Editors: Datepicker icon is now supported for edit search fields that use dates
  - Compatibility: Added whitespace to uploadForm\_functions.php to avoid a Network Solutions FTP uploading issue
  - Compatibility: Spellchecking is now properly disabled on appropriate fields for Firefox 11 (jQuery Bug #6548)
  - Docs: Improved install and upgrade docs and added a page on moving servers (online docs)
  - Docs: Improved the configuration help messages shown on the install menu.
  - Fields: Related Records now support drag-sorting with the custom flag in settings.dat.php under [advanced]:  
allowRelatedRecordsDragSorting = 1
  - Fields: Related Records now support adding a "Create" button through the field editor
  - Admin: Removed version number from dashboard/home page
  - Code Generator: Image tags generated with double-quotes for consistency
  - Code Generator: Added table name to comment above call to getRecords()
- #### CODE CHANGES & BUG FIXES
- Code: Upgraded to jQuery UI 1.8.18
  - Code: pluginAction\_addHandlerAndLink() and pluginAction\_addHandler() now support specifying access levels with a string
  - Code: Plugin filter list\_buttonsRight() now passed 3rd argument \$isRelatedTable and allows adding buttons to related tables
  - Code: user\_createLoginSession() no longer requires password as a second argument
  - Code: Added alias function jsEncode()
  - Code: Added plugin filter login\_isValidLogin to allow custom authentication
  - Code: Added plugin filter edit\_show\_upload\_link to allow overriding of the "Add or Upload File(s)" link
  - Fixed loading problem when there were more than two chained selects on a section edit page.
  - Fixed tiny\_mce compression issue when a server uses ob\_gzhandler as their output handler
  - Fixed loaded records' \_tableName key to be without prefix
  - Fixed getRecords' firstPageUrl to respect extra path or query info
  - Fixed default search functionality for fields ending in \_year, \_month, and \_day

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### VERSION 2.14 - DECEMBER 27, 2011 (MAINTENANCE RELEASE) - Jan 28th, 2012

#### NEW FEATURES

- Datepicker: You can enable a datepicker icon and popup calendar under: Admin > General Settings > Advanced Settings

#### MINOR CHANGES

- WYSIWYG: "Paste as Text" button now defaults to on (and can be clicked to turn off)
- WYSIWYG: Added buttons for superscript, subscript, charmap, and "visual aid" (to hide/show hidden table borders)
- WYSIWYG: Old tinymce cache files are automatically removed on upgrade to prevent errors
- Usability: Command line scripts now always return text (not HTML) for MySQL errors
- Programmers: getSelectOptionsFromTable() now returns values in schema sort order
- Programmers: Moved all mysql\_\* utility functions into /lib/mysql\_functions.lib
- Languages: Added more text to language translation files.

#### BUG FIXES

- Compatibility: Added workaround to jquery.ajax for hosts that incorrectly send "0" when no output should be returned
- Fixed error with some PHP versions "Notice: Only variable references should be returned by reference"
- Fixed Advanced menu commands on edit page, commands now direct to the correct page.
- Code: getRecordsCustom() now returns the last pageNum with content if pageNum is higher than totalPages.
- My Account: Fixed issue where users couldn't drag-sort images if they didn't have access to the accounts table
- Misc Code and other minor improvements

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### SMALL BUG IN 2.13 - Nov 11th, 2011

Steve from MustBeOnline.net found this one, and Damon Edis from Interactive Tools offered a temporary fix until the next version is released.

In a single record editor only, when an admin tries to access the Code Generator using the Advanced Options drop down menu at the bottom of the record, this bug sends you into the General Settings area instead.

This doesn't seem to affect multi-record editors and there are no issues with going straight to the Code Generator from the Admin Section Editors area.

Here's the fix:

in the /cmsAdmin/lib/menus/default/edit.php file



On line 91 and 92 replace this:

```
if ($CURRENT_USER['isAdmin']) { $advancedCommands['Admin: Edit Section'] =
'?
menu=database&action=editTable&tableName=' . urlencode($tableName); }
if ($CURRENT_USER['isAdmin']) { $advancedCommands['Admin: Code Generator'] =
'?
menu=admin&action=generator&tableName=' . urlencode($tableName); }
```

with this:

```
if ($CURRENT_USER['isAdmin']) { $advancedCommands['Admin: Edit Section'] = '?
menu=database&action=editTable&tableName='
. urlencode($tableName); }
if ($CURRENT_USER['isAdmin']) { $advancedCommands['Admin:: Code Generator'] = '?
menu=admin&action=generator&tableName='
. urlencode($tableName); }
```

Basically it is replacing "&" with just "&".

Thank you Steve

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## VERSION 2.13 - OCTOBER 27, 2011 (MAINTENANCE RELEASE) - Nov 11th, 2011

### NEW FEATURES

- WYSIWYG: Updated TinyMCE to v3.4.6 (Released 2011-09-29)
- WYSIWYG: Latest TinyMCE includes support for iOS 5 devices (iPad, iPhone, etc)

### MINOR CHANGES

- Editors: Date field year menu range now expands if needed for the record data.
- Plugins: Added new filter: edit\_advancedCommands
- Code: Plugins can now override accounts tablename by calling accountsTable()
- Code: Plugins can now override session cookie name by setting \$GLOBALS['SESSION\_NAME\_SUFFIX']
- Code: isValidEmail() now supports emails with display names and validation of multiple emails
- Programmers: Added new mysql helper function mysql\_fetch()
- Programmers: Loaded records now contain a \_tableName key
- Programmers: Added row numbering to Plugin Hook List

### BUG FIXES

- sendMessage: \$php\_errormsg now cleared before mail() to prevent "undefined index: disabled" errors
- users can no longer accidentally delete their own account with the "Erase Selected" feature
- Fixed Plugin Hook List bug where actions and filters would be confused.
- Updated getListRows() to support relative upload paths
- Misc Code and other minor improvements

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## VERSION 2.12 - AUGUST, 26, 2011 - Oct 15th, 2011

## NEW FEATURES

- Text Link Sections: Added new option to open links in "inline iframe" to integrate content from external sources
- Text Link Sections: Added new option to display message when opening or displaying links

## MINOR CHANGES & BUG FIXES

- Admin General: Added "Program Url" field so plugins can easily find URL of admin script
- Code Generator: Single Record Sections now automatically ignore search queries (caused errors when using includes)
- Plugins: Added new filters: listHeader\_checkAll and listPage\_footer
- Admin General: Suppressed error message that sometimes appeared on windows servers "not recognized as an internal or external command"
- Compatibility: Fixed document root check to deal with restrictive open\_basedirs
- Accounts: Changing your password no longer logs you out when password encryption is on
- Uploads: Updated upload display code that caused error when using parent path references: failed to get realpath of: ../
- Plugins: "Developer's Plugin Hook List" list no longer excludes hooks called in double-quoted strings
- Editors: "Max Length" option no longer counts tag length towards character limit for textboxes
- Editors: Fixed bug in related records that showed incorrect output when viewing user is not an administrator.
- Programmers: Added new viewer function getRecordsCustom() for getting records with custom SQL queries
- Programmers: Added new function: getAbsolutePath(), fixSlashes()
- Programmers: Updated getPluginPathAndUrl() to automatically return the last plugin called from the call stack
- Programmers: Updated pluginAction\_addHandler() to support multiple access levels and allow calls from viewer pages
- Programmers: Updated prettyDate() to respects timezones offsets set in Admin menu
- Programmers: Updated sedepndMessage() to support 'disabled' option selectively not sending messages
- Programmers: Updated realUrl() to url-encode spaces
- Programmers: Updated pluginAction\_addHandler() to be case-insensitive when comparing function names (so we can use \_\_FUNCTION\_\_)
- Uploads: Uploads will stay with a table after a table is renamed
- Misc Code and other minor improvements

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## VERSION 2.11 - JULY 7, 2011 (MAINTENANCE RELEASE) - Aug 24th, 2011

- Updated upload display code that caused error: failed to get realpath of: ./
- Updated .htaccess to remove debug code that caused error 500 message on some servers
- Added index.php redirect to /cmsAdmin/ for web servers that don't recognize index.html
- When selecting backup files, more recent files will sort to the top of the list
- Misc Code and other minor improvements

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## VERSION 2.10 - JUNE 30, 2011 (FASTER SERVER MOVES) - Aug 24th, 2011

### NEW FEATURES

- Server Moves: You can now re-install the software by erasing /data/isInstalled.php
- Server Moves: You can now restore from a backup file on the install screen

### MINOR CHANGES

- Viewers: Added \_isSiblingSelected, \_isParentSelected, and \_isChildSelected to getCategories() viewer function output
- Plugins: Added new filter: login\_content for login page content
- Plugins: Added new filter: backupDatabase\_skippedTables (to prevent certain tables from being backed up)
- Plugins: Added new filter: edit\_fieldSchema
- Plugins: Added plugin helper functions: plugin\_header, plugin\_footer, plugin\_createSchemas
- Plugins: Added plugin helper functions: pluginAction\_getLink, pluginAction\_addHandler, pluginAction\_addHandlerAndLink
- Programmers: Added function 'prettyDate' to output human readable style relative dates such as: 29 minutes ago
- Programmers: mysql\_count() now accepts WHERE queries as arrays
- Programmers: Added helper PHP functions: startsWith, endsWith
- Programmers: Added helper Javascript function: sprintf

### BUG FIXES

- Passwords: Fixed issue where users could login with their encrypted password string (actual text password now required)
- Field Editor: Fixed issue where recreating thumbnails would keep repeating errors if height or width was blank
- Editor Fields: Fixed issue where the default value of a date field would not be set if the user did not have edit access to it.
- Upload Urls: Upload fields with custom paths/urls no longer add the current hostname to generated urls in viewers
- Misc Code and other minor improvements

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## VERSION 2.09 - MAY 31, 2011 (RELATIVE UPLOAD PATHS) - Aug 24th, 2011

### NEW FEATURES

- Uploads: Upload paths are now stored as relative to make server moves easier
- Uploads: Existing uploads path will automatically be made relative where possible.
- Section Editor: The "Add New Editor..." button now lets you copy an existing section (without the data)

### MINOR CHANGES

- Code Changes: Removed unused function from /lib/common.php - array\_change\_value\_case()
- Plugin Developers: All plugin hooks can now be listed with "show plugin hooks" link on plugins page

- Plugin Developers: All plugin hooks can now be listed with [show plugin hooks](#) link on plugins page
- Programmers: Added plugin hooks for: ui\_header, ui\_footer, list\_orderBy
- Programmers: Added custom functions: isAbsoluteUrl, realUrl, array\_value, array\_where, dieWith404
- Developers: Added help file on setting up development settings files: /data/how\_to\_use\_settings\_files.txt
- WYSIWYG: Added support for /lib/wysiwyg\_custom.css file that won't get overwritten during upgrades
- WYSIWYG: Once clicked, "Paste as Text" now stays active until clicked again (instead of deselecting after paste)

#### BUG FIXES

- Fixed bug from 2.07 where renaming a section displayed an error.
- Fixed demo mode bug where demo couldn't be created if tablename exceeded 64 characters
- whereRecordNumberInUrl() and getLastNumberInUrl() now ignore page numbers such as viewer.php?title-123&page=2
- Admin Option "Store encrypted passwords in database (can not be disabled)" can no longer be disabled.
- Misc Code and other minor improvements

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### VERSION 2.08 - APRIL 20, 2011 (SECURITY ENHANCEMENTS) - May 5th, 2011

#### NOTE:

THERE WAS A NOTE ABOUT A CONFLICT WHEN USING ENCRYPTED PASSWORDS WITH THE MEMBERSHIP PLUGIN.

#### IT READS:

Website Membership does not currently work with Password Encryption. If you are using Website Membership, do not enable Password Encryption just yet; we're working on a new version of Website Membership which will be available in a couple of days.

#### CHECK THIS POST FOR THE LATEST ON THIS ISSUE:

<http://www.interactivetools.com/forum/gforum.cgi?post=87642#87642>

#### NEW FEATURES

- Admin General: Added "Encrypt Password" option to encrypt database user passwords
- Admin General: Added "Require HTTPS" option to only allow logins through secure connections
- User Accounts: Added new field "Last Login Date" that shows last date user accessed system
- User Accounts: Password reminders have been replaced with a password reset form
- Editors: Fields can now be set to "Editor only" or "Admin only"

#### MINOR CHANGES

- Uploads: Added a "Modify All Uploads" link to the Modify Upload popup
- Viewer Functions: getCategory() now supports 'ignoreHidden' option
- WYSIWYG: Updated TinyMCE to v3.4.1 (Released 2011-03-24)
- WYSIWYG: Updated TinyMCE Compressor to v2.04 (Released 2011-03-23)
- License: updated to allow sourcecode modifications, register install path, and allow staging installs (sections 3.4 (removed), 4.4, 7)
- Programmers: Added database functions: mysql\_datetime, mysql\_getValuesAsCSV, mysql\_get, mysql\_select, mysql\_delete, mysql\_update, mysql\_insert
- Programmers: Added custom functions: array\_groupBy, isHTTPS, coalesce
- Programmers: Added new plugin hooks: plugin\_activate, plugin\_deactivate, list\_postselect, menulinks\_array
- Section Editor: New sections' upload and wysiwyg fields' allowedExtensions are now consistent and include PDF
- Languages: The Datepicker is now automatically translated

#### BUG FIXES

- Related Records: More link now automatically ignores previous searches when linked to related sections
- Admin Menu: Fixed bug where view only menus wouldn't show up if selected menu had "Disable View" selected
- Editor List: Accounts search form, fixed MySQL Error: Unknown column 'accessList' in 'where clause'
- Preview: Fixed preview error: Notice: Undefined index: hasEditorAccess

- Misc Code and other minor improvements

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## VERSION 2.07 - FEBRUARY 3, 2011 (PREVIEW BUTTON) - Feb 19th, 2011

### New Features:

- \* Preview button: This useful feature lets you see changes to your detail page before saving or publishing.
- \* New access levels: The new 'Author and Viewer' access level allows you to view all records, while only make modifications to your own.
- \* Editor List: Simplify searching by either resetting or ignoring previous search options.
- \* Editors: A new date picker popup has been added for use with date fields.
- \* Viewers: An automatic search suffix has been created to match empty fields.

### Other Changes:

- \* The backup database now allows you to backup and restore individual tables.
- \* Missing upload directories are automatically created, if possible.
- \* Additional text has been added to the language translation files.
- \* An 'Editor' link has been added to the section edit menu.
- \* Set menu text links to open in the same tab.
- \* Several new filters have been added to the plugin system.
- \* Plugins that require newer versions of CMSB are now automatically deactivated.
- \* The WYSIWYG has been upgraded to tinyMCE version 3.3.9.2.

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## VERSION 2.06 - SEPTEMBER 9, 2010 (WYSIWYG BLOCKQUOTE BUTTON) - Sep 15th, 2010

### MAINTENANCE RELEASE

#### Minor Changes

- \* Languages: Added more text to language translation files
- \* Code: `thisPageUrl()` now lets you pass an array to insert/override query string values
- \* Wysiwyg: Added blockquote button (between link and horizontal rule buttons)
- \* Viewers: `getPrevAndNextRecords()` now supports 'where' option
- \* Categories: Added advanced `getCategories()` option: `ulAttributesCallback`
- \* Categories: Added advanced `getCategories()` option: `liAttributesCallback`
- \* Plugin System: Added new filter "viewerOnly\_allowed\_actions" for adding to the "Advanced Commands" menu
- \* Plugin System: Added utility functions: `getPluginPathAndUrl()` and `createSchemaFromFile()`

#### Bug Fixes

- \* View Menus: Textboxes with autoformatting disabled now display line breaks correctly
- \* View Menus: Fixed error "Couldn't find field class file"
- \* View Menus: Users with only "viewer" menu access no longer see menu links that don't have "view" enabled
- \* View Menus: Advanced Command "Erase Selected" is no longer displayed for users with only "viewer" access
- \* Accounts Menu: Users with author access can no longer see the accounts menu list page
- \* Viewers: Fixed MySQL error caused when using `field_min` or `field_max` searches with non-numeric values
- \* Editors: Fixed error "Strict Standards: var: Deprecated" disabled by PHP 5.0.0 to 5.1.3
- \* Editors: Fixed bug where blank dates on list page sometimes showed up as 1969-12-31
- \* Admin > General: Fixed JSON errors when changing timezones on servers with PHP versions older than 5.2.0
- \* Misc Code and other minor improvements

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## VERSION 2.05 - JULY 6, 2010 (VIEW MENUS) - Aug 6th, 2010

### NEW FEATURES

- Added new "View" menu option to record lists (enabled under Admin > Section Editors)
- Added new "View" menu option to Related Records lists (enabled in Field Editor)
- Field Editor: List fields may now have a Default Value
- Category Sections: Added new setting: Section Editor > Advanced > Max level of depth for categories

### MINOR CHANGES

- Plugin System: Added new filter edit\_buttonsRight to add or modify buttons on edit page
- Plugin System: Added new filter view\_buttonsRight to add or modify buttons on view page
- Plugin System: Added new filters: home\_title, home\_content for post-login homepage
- Plugin System: Added new filters: listHeader\_thAttributes, viewer\_output\_rows
- Plugins: Added Norwegian characters to "Remove Viewer Link Accents" plugin
- Viewers: Added \_hasSiblings to getCategoryes() viewer function output
- Code: Upgraded tinyMCE to version 3.3.7 (Released 2010-06-10)
- Code: Added internal function saveUploadFromFilepath() for importing local files
- Code: Improved DOCUMENT\_ROOT auto-detection code
- Code: Wysiwyg now automatically generates new cache file when tiny\_mce.js changes

### BUG FIXES

- Compatibility: Added workaround for hosts with safe-mode set incorrectly (PHP Bug #23663)
- Wysiwyg Spellchecker: Fixed error "Please specify: spellchecker\_rpc\_url"
- Editors: Pressing Save after a login session has timed out now redirects to the login page
- Misc Code and other minor improvements

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## VERSION 2.04 - APRIL 27, 2010 - (VIEWER PSEUDO-FIELDS) - Aug 6th, 2010

This one's been a while in the making. Check out the list of features and changes and you'll see why.

### NEW FEATURES

- Editor Search: You can now add custom search fields based on record owner with: Owner|createdBy.fullname
- Viewers: Added new option 'loadPseudoFields' for adding fields below (defaults to on).
- Viewers: Added pseudo-field \*:unixtime for date fields with unix time of date (for passing to date()). Example: \$record['startdate:unixtime']
- Viewers: Added pseudo-field \*:text for checkboxes that displays checked or unchecked text. Example: \$record['hidden:text']
- Viewers: Added pseudo-field \*:label for single-value list fields that displays the label of the selected option. Example: \$record['category:label']
- Viewers: Added pseudo-field \*:values for multi-value list fields with an array of values for the selected options. Example: \$record['categories:values']
- Viewers: Added pseudo-field \*:labels for multi-value list fields with an array of labels for the selected options. Example: \$record['categories:labels']
- Wysiwyg: You can now insert any of the thumbnail sizes, not just the first one.

### MINOR CHANGES

- Code Generator: Viewers now automatically locate CMS libraries, even if you've moved servers or filepaths have changed
- Code Generator: New "Expert mode" under: Admin > General for hiding instructions and extra html in output
- Viewers: Added \_isFirstChild and \_isLastChild to getCategories() viewer function output (named after similar CSS2 selectors)
- Viewers: \_match searches on multi-value list fields now match single values as well (if field was converted from single to multi-value)
- Admin > General: Time zones are now sorted by GMT offset and no longer include legacy timezone names from:
- Admin > Regional: Language settings can be hidden with hideLanguageSettings in settings file (for regional distributors)
- Plugin System: All record save plugin hooks are now passed \$oldRecord when updating an existing record
- Plugin System: 'section\_init' is now passed the current \$action
- Plugin System: 'record\_postsave' is now passed record\_num
- Plugin System: Added new hook for: upload\_saved, upload\_adopted
- Plugin System: Added new filter uploadModify\_infoFieldHTML to modify how the upload info fields look
- Code: Added helper functions for external upload forms: removeUpload(), getUploadInfoArrays()
- Code: Added /3rdParty/ to the PHP include path so Zend library will work (for possible future use)
- Code: Upgraded tinyMCE to version 3.3.2 (Released 2010-03-25) and removed safari plugin (now built-in)
- Code: Upgraded to jQuery 1.4.1
- Code: Included JSON Javascript library

---

## VERSION 2.03 - MARCH 1ST, 2010 - RELATED RECORDS - Aug 6th, 2010

### NEW FEATURES

- New field "Related Records" lists records from related tables on edit page
- Custom JS: You can now define your own upgrade-safe Javascript by creating a file named: cmsAdmin/custom.js

### MINOR CHANGES

- Plugin System: Added filters for: upload\_saveAsFilename - Plugin System: Added filters for: listRow\_trStyle, listRow\_tdAttributes, listRow\_displayValue, listRow\_actionLinks
- Plugin System: Plugins are now sorted alphabetically under: Admin > Plugins
- Field Editor: Added "Field Prefix" option that is displayed before or above most field types.
- Field Editor: Added "Description" option this is displayed after or below most field types.
- Docs: Added readme documents to program root folder: custom.css.readme and custom.js.readme
- Viewers: whereRecordNumberInUrl() now ignore campaign tracking utm\_\* values when determining record number
- Categories: Added \_hasParent and \_hasChild to getCategories() viewer function output
- Languages: Added french language file for WYSIWYG
- Install: Added php.ini to correct common server misconfigurations

---

## VERSION 2.02 - RELEASED ON JANUARY 25,2010 - MULTI FILE UPLOADS - Aug 6th, 2010

The major new feature is a new flash based multi-file upload component. This makes it WAY easier to upload lots of files at the same time. No more clicking "Browse..." for each file. There are a few other fun new features in this release as

well (see below).

- Uploads: You can now upload multiple files at once with uploadify flash upload component

This addition uses a jQuery component from [uploadify.com](http://uploadify.com). You can click "upload" and then select a dozen or more files (either by holding shift or ctrl or by selecting a box with your mouse) and clicking upload. If some of your files exceeded the maximum allowable file size, only those that are too big will throw an error message, the rest will be uploaded to the server and will appear in the uploaded list.

- Viewers: Sort ordering can now be defined in viewer URLs with orderBy=fieldname or fieldname DESC

This makes it very easy to sort a viewer list page multiple ways (e.g.: by price, product name, etc). We've written custom code to do this many times, now you can just create a link to ?orderBy=price DESC to let the user sort viewer lists the way they want.

- Viewers: min/max date searches now support date without time formatted as: YYYY-MM-DD

If you wanted to do date min/max range searches you previously had to enter a full MySQL format date like this: ?date\_min=2010-01-01 00:00:00. Now you can just enter the date part and it figures out the rest (00:00:00 for \_min searches and 24:00:00 for \_max searches).

- Settings: Custom settings files can be created for dev domains, such as: /data/settings.localhost.php  
If you've ever had to keep a local staging/development environment in sync with a live server you've probably noticed what a hassle it is to manage the /data/settings.dat.php file. You need different mysql details, upload paths, etc for each environment.  
Now CMSB will automatically check for a settings file with the current domain name in it and use that if it's available. Just copy settings.dat.php and replace "dat" with your hostname or IP.

Note: When using this feature, Dave suggests that you always setup a new file for your dev environment and let production/live use the default one. That way if a domain name is added or changed it won't break things on the live site.

- Viewers: Added the following options to getRecords() for advanced MySQL users: 'groupBy' and 'having'

For advanced MySQL users (and to make forum support easier for us). If you know what "GROUP BY" and "HAVING" are, you can now pass them to getRecords with the 'groupBy' and 'having' options.

- Viewers: Added utility function mysql\_escapef(), example: mysql\_escapef("num = ? AND name = ?", \$num, \$name);

This is another one for more advanced MySQL users. When writing custom MySQL you have to be careful to escape user input to avoid "SQL Injection Attacks" (Google for details). Basically this means passing any input to mysql\_real\_escape\_string().

This can make simple queries like this:  
'where' => "city = '\$city' AND year = '\$year' ",

Look a lot more complicated like this:

'where' => "city = " .mysql\_real\_escape\_string(\$city). " AND year = " .mysql\_real\_escape\_string(\$year). " ",

Dave Edis from Interactive Tools explained that mysql\_escapef lets you write your query with a ? where each value goes, then mysql\_escapef automatically escapes and inserts the values for you.

So now the query would be written this way:  
'where' => mysql\_escapef("city = ? AND year = ?", \$city, \$year),

- Viewers: getPrevAndNextRecords() now supports 'orderBy' option

The getPrevAndNextRecords() function has been optimized and an orderBy option has been added to it. If you'd like to display links to the previous and next record on a detail page you can do that like this:

```
list($prevRecord, $nextRecord, $firstRecord, $lastRecord) = getPrevAndNextRecords(array(
    'Table name' => 'news',
    'recordNum' => $record['num'],
    'orderBy' => 'createdDate',
));
```

And you can display links to the previous and next record as simply as:  
<?php echo \$prevRecord['\_link'] ?> or <?php echo \$nextRecord['\_link'] ?>

- Custom CSS:

You can now define your own upgrade-safe CSS by creating a file named:  
cmsAdmin/custom.css

According to Dave, "It's only loaded if it exists and it will be loaded after all the rest of the CSS, making it

According to Dave, "it's only loaded if it exists and it will be loaded after all the rest of the CSS, making it easy for you to override any CSS styling you want to change."

---

## VERSION 2.01 RELEASED ON DECEMBER 14, 2009 - DATE FIELDS REVISED - Aug 6th, 2010

The biggest changes are in the way Date fields are created:

Default date field values can now be: blank, current date, specified date, or values such as "+2 weeks" or "next Thursday"

Short month names used in date pulldowns can now be updated in the language files in /lib/languages/

In addition, an advanced option 'addSelectExpr' has been added for generating pseudo-fields or calculated values.

### A FEW THINGS TO KEEP IN MIND.

As of this writing, here are a few things that I found regarding the new Date Field modifications.

- 1) The display format of a "Date" type field shown in the ListPage Fields does not seem to follow the format set up in General Settings. The format of a "Date" field within the record does, but the "Listpage Field" display doesn't.
- 2) Alpha characters seem to be allowed in a "Date" type field's "year range" field but give very strange results.
- 3) Blank publish\_date and Remove\_date fields can result in very unhappy consequences.

### addSelectExpr

According to Dave:

What it does is insert the addSelectExpr value into a SELECT query here:

```
SELECT *, addSelectExpr FROM Table name
```

So if you had:

```
'addSelectExpr' => ' NOW() as _currentDate '
```

It would add a field \_currentDate to your \$records like \$records['\_currentDate']. That's because NOW() is a mysql function:

[http://dev.mysql.com/doc/refman/5.1/en/date-and-time-functions.html#function\\_now](http://dev.mysql.com/doc/refman/5.1/en/date-and-time-functions.html#function_now)

Usually you'd use that when you had lots and lots of records and you wanted to sort them on a calculated value. Some examples of this that I'm working on now are a custom search engine that returns records based on a "match score" from 0-

100 that is calculated, and a distance search that returns results based on distance from the searching users location and displayed that distance as well.

Some of the MySQL for this can be very complicated.

(see: [http://www.zcentric.com/blog/2007/03/calculate\\_distance\\_in\\_mysql\\_wi.html](http://www.zcentric.com/blog/2007/03/calculate_distance_in_mysql_wi.html) )

But as we do it more and more ourselves we'll work on ways to make it simpler and build it into the software or plugins.

If you have say 10,000 or more records you need to do these calculations and the sorting in the database because it's not possible to do it in the application without loading all the records and that takes too much memory.

---

## VERSION 2.0 RELEASED ON DECEMBER 4, 2009 - A WHOLE NEW LOOK - Aug 6th, 2010

CMSB 2.0 has arrived, with a totally new look and some neat new features under the hood. If you haven't upgraded your client's version in a while, this might be a really good time. Log on to

<http://www.interactivetools.com/upgrade/>

for your copy of the latest version

The biggest obvious change is the look. Much sleeker and hipper than the old look. And the color scheme can be change by the Admin form Blue to Green or red Just go to:

Admin > General > Color / Theme

Along with the new look there's some added functionality. For example:

Users with "Editor" access can now change owners of a record (also called "Created By" user)

Text field descriptions can now contain PHP code

An Advanced Command: "Admin: Code Generator" to jump to Code Generator

The Password Reminder has added support for non-English characters in the subject line

Plugins can now be organized in subdirectories under the /plugins/ directory



One of my favorites is that Header separators now show the header message instead of "-- separator ---" in the field list

The database down error page now sends a 503 "Service Temporarily Unavailable" so search engines will retry later

One that you might want to make note of...

'page' is now a reserved fieldname, so check and rename any existing fields named 'page' to something else.

---

## VERSIONS 1.35 AND 1.36 - Aug 6th, 2010

These releases consisted mostly of bug fixes.

---

## VERSION 1.34 RELEASED ON SEPTEMBER 8, 2009 BACKUP AND RESTORE - Nov 11th, 2011

Backup & Restore - You can now backup & restore your MySQL database under: Admin > General Settings > Database Settings. Backing up creates an .sql file in /data/backups/ and Restoring allows you to select a file from that directory to restore. Backup your MySQL with another tool before testing this feature (or test it on a dev environment).

Note that to backup an entire site you'd want to first create a MySQL backup with the software, then download all the files (including CMS Builder (with the backup file) and your uploads and viewer files).

New Menu Option - We added an option "Always Show Expanded Menu" under: Admin > General Settings > Advanced Settings. If you don't have very many menu options and you want them to always show then you may prefer this.

Filepath changes - They've moved some things around. The only manual change you will have to make is to copy any custom plugins from /lib/plugins/ to /plugins/ (and the program will remind you to do this if you forget). They've added a step 4 to the "how to upgrade.txt" that lists some files you can remove if desired:

4) Remove these files & folders if they exist:

/[cmsAdmin]/css/ui.css	(removed in v1.34 - moved to /[cmsAdmin]/style.css)
/[cmsAdmin]/css/ui_ie6.css	(removed in v1.34 - moved to /[cmsAdmin]/style_ie6.css)
/[cmsAdmin]/css/wysiwyg.css	(removed in v1.34 - moved to /[cmsAdmin]/lib/wysiwyg.css)
/[cmsAdmin]/images/	(removed in v1.34 - moved to /[cmsAdmin]/lib/images/)
/[cmsAdmin]/tinymce3/	(removed in v1.34 - moved to /[cmsAdmin]/3rdParty/tiny_mce/)
/[cmsAdmin]/lib/plugins/	(removed in v1.34 - moved to /[cmsAdmin]/plugins/ *MOVE PLUGINS BEFORE REMOVING*)
/[cmsAdmin]/lib/menus/accounts/	(removed in v1.24 - no longer needed, merged with /lib/menus/default/)
/[cmsAdmin]/tinyMCE/	(removed in v1.06 - moved to /[cmsAdmin]/tinymce3/)

Here's what's changed:

- WYSIWYG: Added Spellchecker button to WYSIWYG editor (experimental) See the note below for WAMP users
- Viewers: Added pseudo-field \*:text for checkboxes that displays checked or unchecked text. Example:  
<?php echo \$listingsRecord[your\_checkbox\_field:text'] ?>
- Special Fields: Creating 'showExpandedMenu' field in user accounts allows you to specify menu setting on a per user basis
- Section Editors: Added new option "Required Plugins" to Advanced tab of "Section Editors"
- Added extra error checking on upgrade for user added wysiwyg\_custom.php files with old WYSIWYG paths
- Backup filenames now start with current hostname and end with .php to prevent downloading and provide additional security
- Backup files now ignore 'table prefix' when backing up and restore using the table prefix of the current CMS
- Section Editors Table List: Fixed left padding so menu names that wrap are indented as expected
- Admin Menu: The maximum number of connections MySQL allows is now displayed under: General Settings > Server Info
- Default Data Support: Files named data/schema/sectionName.defaultSqlData.php are imported when new sections are created.
- Plugin System: Added actions for: admin\_prelogin
- Section Editors: Fixed IE8 issue where Advanced Search/Simple Search links weren't working properly.
- Misc Changes

And more details on some of those items:

>WYSIWYG: Added Spellchecker button to WYSIWYG editor (experimental)

This will add a spellcheck button to the WYSIWYG. If you've setup a /lib/wysiwyg\_custom.php file you'll need to update it to include the new code from /lib/wysiwyg.php. Note: Spell checking requires some extra modules. Let me know if you get any errors.

>Viewers: Added pseudo-

field \*:text for checkboxes that displays checked or unchecked text. Example:

```
$record['hidden:text']
```

This is useful if you want to display the checked/unchecked text for a checkbox instead of 0 or 1. Use

```
$record['yourField'] for if and comparison tests and $record['yourField:text'] when you want to display the text value.
```

>Backup filenames now start with current hostname and end with .sql.php to prevent downloading and provide additional security

>Backup files now ignore 'table prefix' when backing up and restore using the table prefix of the current CMS

These changes are to make it easier to tell which backup files are from where and to move between CMSB installs that use different table prefixes. Old .sql files can still be restored.

>Admin Menu: The maximum number of connections MySQL allows is now displayed under: General Settings > Server Info

This is the total number of simultaneous connections your MySQL server will accept. This will give you an idea of the max capacity of your website

max capacity of your website.

>Default Data Support: Files named data/schema/sectionName.defaultSqlData.php are imported when new sections are created.

This is so we can bundle data with schema and template files. To create one of these files just name it after your section and copy the sql for that section from a backup file to a .defaultSqlData.php file. When the section gets created for the first time (after install or uploading a new schema file) the sql will be imported as well.

For anyone running WAMP on their local machine, to make the Spellchecker work, you just have to enable the PHP extension: php\_openssl

To do this:

1. click on the WAMP icon in your task bar
  2. select PHP then PHP extensions
  3. you should see a large list of extensions. Click php\_openssl to enable it.
- WAMP will reboot and the Spellchecker works!

---

## VERSION 1.33 RELEASED ON AUGUST 24, 2009 - Aug 6th, 2010

### NEW FEATURES

- Menu Groups allow grouping, hiding and showing of related menu items\*\*\*
- Menu Text Links allow you to add external links to the menu bar
- Menus can now be indented if desired: Admin > Section Editors > Section Name > Indent

### MINOR CHANGES

- Admin: Removed admin 'home' page as it's no longer needed with new menu layout
- Admin: Regional Settings have now been moved to Admin > General
- Editors: Created and Updated dates now display in format from: Admin > General > Date Field Format
- Editors: Added "Disable Modify" option under section editors to prevent users from modifying records
- Accounts: Added "change" link to edit page so "Created By" user can now be changed by admins
- Plugin System: Added actions for: admin\_preadd, admin\_preedit, record\_save\_posterrorchecking, section\_init, admin\_postlogin
- Plugin System: Added filters for: record\_saved\_message

Create a text link - Click Admin > Section Editors > Add New Editor. Then select: Advanced Menus > Text Link and enter "Google" (or anything) for "Menu Name" and click Save. Then click modify on the new section and change the link url to <http://www.google.com/> (or whatever you link).

Create a menu group - Click Admin > Section Editors > Add New Editor. Then select: Advanced Menus > Menu Group and enter "My Group" (or anything) for "Menu Name" and click Save.

You can drag your new group up and down the menu list. Any menu items under it will be hidden unless the menu group is open. Try clicking on the menu groups and mousing off to see how they work.

Indenting a menu option - Just click modify from the Section Editor and then check "Indent on menubar" beside the menu name. The checkbox shows for menu group sections as well but I'll remove it in beta2 as it doesn't apply.

Updating the menu colors & CSS - I've tried to make the CSS easier to custom if you want to change the menu colors for menu groups, menu items, and indented menu items. See cmsAdmin/css/ui.css for more details.

- Added code to list admin menu at top - search for \$showAdminAtTop in lib/menus/header\_functions.php
- Editors: Added "Disable Modify" option under section editors to prevent users from modifying records
- Accounts: Added "change" link to edit page so "Created By" user can now be changed by admins
- Plugins: Added some more plugin hooks
- Plugins: Plugins now show filename if no plugin name is defined

\*\*\*\* Don't forget that access to menu groups is not automatically granted to all users. If you've granted access "Per Section" to a user, the menu groups won't automatically get displayed for them. You'll have to go back into their account and grant them access to the menu groups.

---

## VERSION 1.32 RELEASED ON AUGUST 4, 2009 - Aug 6th, 2010

### NEW FEATURES

- Users can now modify their own account details (username, password, email, etc) with new "My Account" menu
- Field Editor: New advanced option for Accounts section 'My Account - Show this field in "My Account" section'

### MINOR CHANGES

Admin > General "Free Disk Space" is now displayed on the bottom of the page

- Admin > General: 'Free Disk Space' is now displayed on the bottom of the page
  - Plugin System: Added hooks for: admin\_preerase, admin\_posterase
  - Viewers: New option 'includeDisabledAccounts' shows records otherwise hidden with: Section Editors > Advanced > Disabled Accounts
  - Editors: Administrators can now access all menus by url, even if they haven't been given access under "User Accounts"
- The main new feature in this release is a "My Account" menu (link from the top by Logoff). This menu lets CMS users edit their username, password, email, and any other fields you choose (such as upload fields, WYSIWYG fields, etc).

This is useful to allow users to modify their own email or password, but can also be used to allow the user to easily manage a profile or homepage that can be displayed on the website.

By default, if a section has a field called 'createdByUserNum' (which they all do) viewers will already automatically make all the user account variables available as \$record['createdBy.fullname'], \$record['createdBy.email'], etc. So you can now easily add fields to the accounts section, let the users edit them through the "My Account" menu, and display them on the site.

---

### VERSION 1.31 RELEASED ON JULY 6, 2009 - Aug 6th, 2010

#### NEW FEATURES

- Added advanced editor search and filter options (See: Admin > Section Editors > Searching)

#### MINOR CHANGES

- PHP sessions are now used instead of cookies to store admin search preferences and login credentials
- Viewers: New option 'ignoreHidden' allows you to display hidden records
- Viewers: New option 'ignorePublishDate' allows you to display records before their publish date
- Viewers: New option 'ignoreRemoveDate' allows you to display records after their remove date
- Viewers: Function getNumberFromEndOfUrl() now lets you specify a default num if no number found in url
- Category Viewer: Added new option 'defaultCategory' (enter 'first', category number, or blank " for none)
- Category Viewer: Added new option 'rootCategoryNum' to show only part of the category tree (defaults to showing all)
- Category Viewer: Added new option 'ulAttributes' for adding attributes to generated ul tags
- Category Viewer: Added new category format 'breadcrumb' for displaying select menu path in breadcrumb format
- Category Viewer: Added new pseudofield \_isBreadcrumb to make it easier to display breadcrumb menu for selected category

---

### VERSION 1.30 RELEASED JULY 3, 2009 (ADVANCED EDITOR SEARCH FILTERS) - Aug 6th, 2010

#### NEW FEATURES

- Added advanced editor search and filter options (See: Admin > Section Editors > Searching)

#### MINOR CHANGES

- PHP sessions are now used instead of cookies to store admin search preferences and login credentials
- Viewers: New option 'ignoreHidden' allows you to display hidden records
- Viewers: New option 'ignorePublishDate' allows you to display records before their publish date
- Viewers: New option 'ignoreRemoveDate' allows you to display records after their remove date
- Viewers: Function getNumberFromEndOfUrl() now lets you specify a default num if no number found in url
- Category Viewer: Added new option 'defaultCategory' (enter 'first', category number, or blank " for none)
- Category Viewer: Added new option 'rootCategoryNum' to show only part of the category tree (defaults to showing all)
- Category Viewer: Added new option 'ulAttributes' for adding attributes to generated ul tags
- Category Viewer: Added new category format 'breadcrumb' for displaying select menu path in breadcrumb format
- Category Viewer: Added new pseudofield \_isBreadcrumb to make it easier to display breadcrumb menu for selected category

#### BUG FIXES

- Password reminder emails are not sent with UTF8 charset so international characters display properly
- Viewers: getListValues() and getListLabels() didn't work if the list field wasn't a multi-value field
- Viewers: getPrevAndNextRecords() fixed error message: "Undefined variable: errors"
- Viewers: getCategories() fixed error message: "Undefined offset: 0" when no category selected
- Editor List: After drag sorting any previously selected sorting columns are reset so new order shows as expected.
- User Accounts: Hidden menu sections are now visible in section access list

---

### VERSION 1.29 RELEASED ON JUNE 16, 2009 - Aug 6th, 2010

#### NEW FEATURES

- Demo Mode: program can now be run in demo mode where data is copied and resets every hour.

#### MINOR CHANGES

- WYSIWYG: Upgraded tinyMCE to version 3.2.4.1 (Released 2009-05-25)

- WYSIWYG: Word content is now automatically detected and cleaned up without need for the paste dialog popup window.
- Editors: List Fields now show previously entered database values even when they are no longer in list options
- Editors: Added "Date Field Format" to Admin > Regional Settings to allow displaying date fields as "Day Month Year"
- Viewers: Added 'pageNum' option to viewers to allow you to specify exact page number to display
- Multi Table Search: Added 10 fields that can be passed from each table searched by searchMultipleTables() as field1, field2, etc.

## CHAPTER 11 - THE HIDDEN MANUAL

---

### SUPPRESSING ERROR MESSAGES - Feb 12th, 2022

You can try adding an @ before the \$ in variable names

Also, according to Daniel Technical Lead at Interactive Tools:

It's possible to adjust the errors which display by using the error\_reporting() function. To turn off only the deprecated warnings, you can use this:

```
error_reporting(E_ALL ^ E_DEPRECATED);
```

Or to suppress all errors/notices/warnings, you can use this:

```
error_reporting(0);
```

Note that you will need to include this in your code after the CMSB viewer library has been loaded.

---

### HIDDEN SWITCHES THAT CHANGE THE WAY RECORDS ARE DISPLAYED - Feb 12th, 2022

These are from the 3.55 lib/viewer-functions.php

```
list($records, $details) = getRecords(array(
    'tableName'    => 'listings', // REQUIRED, error if not specified, tableName is prefixed with $TABLE_PREFIX
    'where'        => "",        // optional, defaults to blank
    'orderBy'      => "",        // optional, defaults to $_REQUEST['orderBy'], or table sort order
    'limit'        => "",        // optional, defaults to blank
    'offset'       => "",        // optional, defaults to blank (if set but no limit then limit is set to high
number as per mysql docs)
    'perPage'     => "",        // optional, number of records to show per page
    'pageNum'     => "",        // optional, page number to display defaults to $_REQUEST['page'] or 1
    'allowSearch' => "",        // optional, defaults to yes, adds search info from query string
    'requireSearchMatch' => "", // optional, don't show any results unless search keyword submitted and matched
    'requireSearchSuffix' => "", // optional, search fields must end in a suffix such as _match or _keyword,
original field=value match search is ignored
    'loadUploads' => "",        // optional, defaults to yes, loads upload array into upload field
    'loadCreatedBy' => "",      // optional, defaults to yes, adds createdBy. fields for created user
    'loadListDetails' => "",    // optional, defaults to yes, adds $details with prev/next page, etc info
    'loadPseudoFields' => false, // optional, defaults to yes, adds additional fields for :text, :label,
:values, etc
    'orWhere'     => "",        // optional, adding " OR ... " to end of where clause
    'useSeoUrls'  => false,     // optional, use SEO urls, defaults to no

    'leftJoin'    => array(     // Note: leftJoins require you to use fully qualified fieldnames in WHERE and ORDER
BY, such as tablename.fieldname
    'grocery_aisle' => 'aisleNum', // foreign table => local field (that matches num in foreign table)
    'brands'       => 'brandNum',
    'otherTable'   => 'ON mainTable.foreignKey = foreignTable.num',
),

    'ignoreHidden' => false, // don't hide records with hidden flag set
    'ignorePublishDate' => false, // don't hide records with publishDate > now
    'ignoreRemoveDate' => false, // don't hide records with removeDate < now
    'includeDisabledAccounts' => true, // include records that were created by disabled accounts. See: Admin >
Section Editors > Advanced > Disabled Accounts

    'addSelectExpr' => 'NOW() as _currentDate', // add expression to SELECT, useful for generating
pseudo-fields or calculated values
    'groupBy'       => "",        // optional, defaults to blank
    'having'        => "",        // optional, defaults to blank

    'useCache'     => true,     // use cache - requires cache plugin
```

```
'debugSql' => false, // optional, display SQL query, defaults to no  
));
```

## CHAPTER 12 - THE END USER PERSPECTIVE

---

### CREATING END USER MANUALS

This section of the CMSB cookbook focuses on the needs of the end user, the folks who will use our designs and the CMSB interface on a daily basis.

The most important advice that I can offer to a designer who is writing a document for an end user is to never assume prior knowledge on the part of the end user. Assume that they have extremely little computer knowledge and that because of this, they will take you instructions very literally and will be reticent to make any changes for fear of “breaking” something.

After you’ve written the manual, and after you’ve tried to follow your own instructions, have a layperson (or a small focus group of lay people) try to follow the instructions and give you feedback about where they had problems. Then adjust the document accordingly before releasing it to the public.

If at all possible, try not to use the “it” word. It is the one word in technical manuals that leads to more confusion than almost any other.

I’ve included a copy of an end user manual that was written (using the WYSIWYG editor) for an association that had a number of members assigned to update specific pages on their web site. Your particular client’s needs will be different but this material should provide you with a jumping off point to provide your clients with effective end user instruction documents.

I’ve also included all the files necessary for an end user manual that uses a multi-record editor and text boxes. Among the advantages are automatic formatting of chapters, main topics and sub topics and the ability to list all new and revised entries at the top of the page for a period of 30 days.

---

### A SAMPLE END USER MANUAL USING WYSIWYG - Dec 29th, 2018

Although the CMS Builder interface is fairly straight forward, most end users will benefit from the inclusion of a comprehensive, easy to understand set of instructions.

comprehensive, easy to understand set of instructions.

This recipe contains the latest version of one that I offered to one of my clients. Hope you find it useful.

For my help page, I create a single record editor called "Help", with the default configuration of one text field for a title and one WYSIWYG field for the help content.

This is displayed by a viewer called "help.php" that's styled to match the client's web site.

I've also been using the createPDF plugin to allow them to print a PDF of the latest updates to the manual.

You can restrict access to this page by surrounding your load viewer library call at the top of your viewer as in the following example::

```
if (!defined('START_SESSION')) { define('START_SESSION', true); }
// load viewer library
... your load viewer library code...
if (!@$SESSION['username']) { header("Location: http://yourdomain.com/cmsAdmin/admin.php?
redirectUrl=" .
$_SERVER['REQUEST_URI']); exit; }
```

This one's a little long. You can download a zipped HTML document from:

[http://www.thecmsbcookbook.com/downloads/help\\_wysiwyg.zip](http://www.thecmsbcookbook.com/downloads/help_wysiwyg.zip)

Open the HTML document and modify the information to meet your needs.

NOTE: I've used "yourdomain.com" anywhere a domain is mentioned

When you're done revising, copy the code that's between the body tags.

Then open your "help" editor, click on the HTML icon on the WYSIWYG editor and paste the code into the HTML window.

Your viewer should display the sample help manual. Make any formatting adjustments necessary.

---

## A SAMPLE END USER MANUAL USING A MULTI-RECORD EDITOR - May 24th, 2012

The zip file at [<a target="\\_blank"](#)

[href="http://www.thecmsbcookbook.com/downloads/help\\_multi\\_record.zip">http://www.thecmsbcookbook.com/downloads/help\\_multi\\_record.zip</a>](http://www.thecmsbcookbook.com/downloads/help_multi_record.zip) contains all the files necessary to create and populate an end user manual using a multi-record editor.

There is a ini.php file that gets uploaded to your data/schemaPresets folder (you'll use this to create your help editor).

A help.php viewer that you can style to meet your needs.

A data backup file with all the content for the help records. (NOTE: you can only restore a backup to an identical version of CMSB so there are separate backups for V2.14 and 2.15)

There are also 3 image files for a large and small magnifying glass and a back to the top image. These should be in an images directory or you should change the path.

You'll have to go through the data and change things like your\_site.com and add or take out information that doesn't apply to your sites to suit your needs, but this should get you started.

---

## MODIFYING THE ALERT RECORD SAVED PLUGIN - Jun 17th, 2022

There's are a set of very handy free plugins that user DJulia created.

"Alert Record Saved" which sends an email to the admin each time a record is saved, modified or erased.

<http://www.thecmsbcookbook/downloads/emailonapproved.zip>

"Alert Admin Login" which sends an email to the admin each time a user logs in.

<http://www.thecmsbcookbook/downloads/alertrecordsaved.zip>

I needed to modify the "Alert Record Saved" plugin for an art exhibition submission application so that it was only triggered when a new record was created in particular section (not when the record was updated or erased) and the email was sent to the user that created the record instead of the admin.

Here's how.

:

First I surrounded the entire code with an if statement that executed the code only if the tablename was equal to my

First I surrounded the active code with an if statement that executed the code only if the tablename was equal to my target table and the new record flag was equal to 1

```
if($tableName == 'my_trigger_field' && ($isNewRecord == 1)){  
    $emailTemplate = "alert-record-saved.mel.php";  
    $emailHeaders = emailTemplate_load(array(  
        'template' => $emailTemplate,  
        'template' => saved_sendAlertMessage_pluginDir() . "/"$emailTemplate",  
        'subject' => '[CMSB :: Alert New Record Is Saved]',  
        'from' => $SETTINGS['adminEmail'],  
        'to' => $SETTINGS['adminEmail'],  
        'placeholders' => array(  
            'username' => $CURRENT_USER['username'],  
            'email' => $CURRENT_USER['email'],  
            'tableName' => $tableName,  
            'isNewRecord' => $isNewRecord,  
            'recordNum' => intval(@$_REQUEST['num']),  
            'title' => htmlspecialchars(@$_REQUEST['title']),  
            'oldTitle' => htmlspecialchars($oldRecord['title']),  
        ),  
        'disabled' => false,  
        'logging' => false,  
    ));  
    $mailErrors = sendMessage($emailHeaders);  
    if ($mailErrors) { die("Mail Error: $mailErrors"); }  
}  
}
```

And then, since I did not want to send an alert when a record was erased, I commented out the entire "send email on erase" code block like this:

To make the email a bit more user friendly, I changed

```
'subject' => '[CMSB :: Alert New Record Is Saved]',
```

to

```
'subject' => 'Your submission has been received',
```

and to direct the email alert to the current user, I changed

```
'to' => $SETTINGS['adminEmail'],
```

to

```
'to' => $CURRENT_USER['email'],
```

In the placeholder array (the values passed to the email template) I added a few placeholders that were more relevant to my application. (as an example, 'projectTitle' is a new placeholder I want to be available in the email template and @\$\_REQUEST['project\_title'] is the field in my table where I want the value to come from.)

```
'projectTitle' => htmlspecialchars(@$_REQUEST['project_title']),  
'ship' => htmlspecialchars(@$_REQUEST['i_am_planning_to_ship_my_artwork']),  
'firstName' => $CURRENT_USER['first_name'],  
'lastName' => $CURRENT_USER['last_name'],
```

In the email template I changed the body to include a masthead image, included the user's first and last name and a link to a simple viewer so that they could view their submission:

```
<body>  
  
<br /> <br />
```

```
Hi <?php echo htmlspecialchars($PLACEHOLDERS['firstName']) ?>,  
<br /> <br />
```

```
Your submission to <?  
php echo htmlspecialchars($PLACEHOLDERS['projectTitle']) ?  
> was received successfully.  
<br /> <br />
```

```
<a href="http://www.mysite.com/exhibition_submission_viewer.php?num=<?  
php echo intval($PLACEHOLDERS['recordNum'])  
?">CLICK/TAP HERE TO VIEW / PRINT YOUR SUBMISSION INFORMATION</a>  
<br /> <br />  
<?php if($PLACEHOLDERS['ship'] == 1):?  
>You've indicated that you'll be shipping your work to this exhibition.Please  
insure that it will arrive by the shipping deadline.<?php endif?>  
<br /> <br />
```

```
If you have any questions, please <a href="http://www.nawafl.com/contact.php">CONTACT US</a>  
<br /> <br />  
Thanks,  
The Exhibitions Committee  
<br /> <br />  
</body>
```

---

## MYSQL TO MYSQLI CHEAT SHEET - Feb 9th, 2023

### MySql to MySqli Cheat Sheet

According to Daniel Louwe, Technical Lead at Interactive Tools, "CMSB also now includes a Legacy MySQL Scanner plugin - you can activate this plugin and then use it to run a scan both on your plugins and website files to locate other places that need to be updated. Updating to the latest version of a plugin should fix any legacy MySQL issues there, however, anything found in your website files may require some manual fixing."

Here's some more information from Interactive Tools

For each mysql\_ function, find it in the Original MySQL API here:

<http://php.net/manual/en/book.mysql.php>

And then follow the link to the replacement function and copy the code replacing \$mysql-> with mysqli()->

I'll add fixes as I come across them.

Please email me with your conversion notes.

Here are some example search and replaces:

Search for: ..... Replace with:

```
-----  
mysql_query( .....      mysqli()->query(  
mysql_error( .....      mysqli()->error  
mysql_ping( .....      mysqli()->ping(  
mysql_select_db( .....  mysqli()->select_db(  
mysql_server_info( .....; mysqli()->server_info  
mysql_set_charset .....  mysqli()->set_charset(  
mysql_insert_id .....  mysqli()->insert_id;  
mysql_close( .....;    mysqli()->close();  
mysql_affected_rows .....  mysqli()->affected_rows  
mysql_fetch_assoc($result) ..... $result->fetch_assoc()  
mysql_fetch_row($result) ..... $result->fetch_row()
```

For any other mysql function find the original and replacement code in the PHP manual online here: <http://php.net/manual/en/book.mysql.php>

Reference:

PHP Original MySQL API: <http://php.net/manual/en/book.mysql.php>

PHP MySQL Improved Extension: <http://php.net/manual/en/book.mysqli.php>

---

Some changes that I've made:

Change this:

```
$query = "SELECT DATE_FORMAT(date, '%M %Y') as dateAndYear, YEAR(date) as year, MONTH(date) as month FROM cmsb_blog  
WHERE `hidden` = 0 GROUP BY dateAndYear ORDER BY date";
```

```
$result = mysql_query($query) or die("MySQL Error: ". htmlspecialchars(mysql_error()) . "\n");
```



```
while ($record = mysql_fetch_assoc($result)):
```

To this:

```
$query = "SELECT DATE_FORMAT(date, '%M %Y') as dateAndYear, YEAR(date) as year, MONTH(date) as month FROM cmsb_blog
WHERE `hidden` = 0 GROUP BY dateAndYear ORDER BY date";

$result = mysqli()-
>query($query) or die("MySQL Error: ". htmlspecialchars(mysqli()-
>error) . "\n");
while ($record = $result->fetch_assoc()):
```

And this:

```
mysql_query(mysql_escapef("INSERT INTO {$TABLE_PREFIX}login_log SET
```

Becomes this:

```
mysqli()-
>query(mysql_escapef("INSERT INTO {$TABLE_PREFIX}login_log SET
```

And this:

```
mysql_query("INSERT INTO `{$TABLE_PREFIX}salon_listings` SET
```

becomes this:

```
mysqli()->query("INSERT INTO `{$TABLE_PREFIX}salon_listings` SET
```

And this:

```
mysql_query("UPDATE `{$TABLE_PREFIX}salon_listings` SET
```

becomes this:

```
mysqli()->query("UPDATE `{$TABLE_PREFIX}salon_listings` SET
```

And this:

```
mysql_query("UPDATE `{$TABLE_PREFIX}accounts` SET
expiresDate = expiresDate + INTERVAL 1 YEAR
WHERE num = '".mysql_escape( $CURRENT_USER['num'] )."'")
or die("MySQL Error:\n". htmlspecialchars(mysqli_error()) . "\n");
$userNum = mysql_insert_id();
```

Can also become this:

```
$colsToValues = array();
$colsToValues['updatedDate='] = 'NOW()';
$colsToValues['expiresDate='] = 'expiresDate + INTERVAL 1 YEAR';
mysql_update(accountsTable(), $CURRENT_USER['num'], null, $colsToValues);
```

According to Daniel Loewe at Interactive Tools,

You should be able to replace `mysql_insert_id()` with `mysqli()->insert_id`;

A suitable replacement for `mysql_real_escape_string()` is `mysql_escape()`.

---

## VERSION 3.52 - JULY 26, 2019 - Jul 28th, 2019

### SERVER REQUIREMENTS

- This software version REQUIRES: PHP 7.1+ and MySQL 5.5+
- NOTE: Some plugins may need to be updated when upgrading from v2.xx

### NEW FEATURES

- Section Editors: Added "Insert Field Here" (+) link to allow inserting a new field beside an existing field
- Section Editors: New "Tab Group" field for organizing section editor fields
- Section Editors: New '<input type="hidden">' advanced field for inserting hidden fields in sections.
- Server Admin: Admin > General > Disk Space now has an option to show largest files (for linux servers)
- Server Admin: Admin > Background Tasks now includes setup instructions for cPanel, Plesk, Windows, and Linux
- Database: Switched default storage engine from MyISAM to InnoDB
- Field Editor: "Update all existing records" feature available when adding a new field with a default value.
- Background Tasks: New option to limit the number of entries stored in the background task log.
- Category Menus: Now possible to assign Author/Viewer access to category menu sections.
- Admin Menu: Security Settings have been moved to their own menu
- Audit Log: Now logs login events and record add/modify/delete

### MINOR CHANGES

- Select upload dialog only shows matching file extensions.
- Libraries: Updated TinyMCE from v4.9.0 to v4.9.4 (Released 2019-03-20)
- Libraries: Upgraded jQuery to v3.4.1
- Section Editors: New menu groups get default table suffix of "\_menugroup" for usability

### BUG FIXES

- Plugins: Added fix for issue that may cause plugins to get deactivated when they're being uploaded
- Category Menu: drag-order functionality no longer dependant on "name" column.
- Misc Code and other minor improvements.

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