

An Introduction to MediaWiki

Niharika Kohli

Disambiguation!



WIKIPEDIA
The Free Encyclopedia



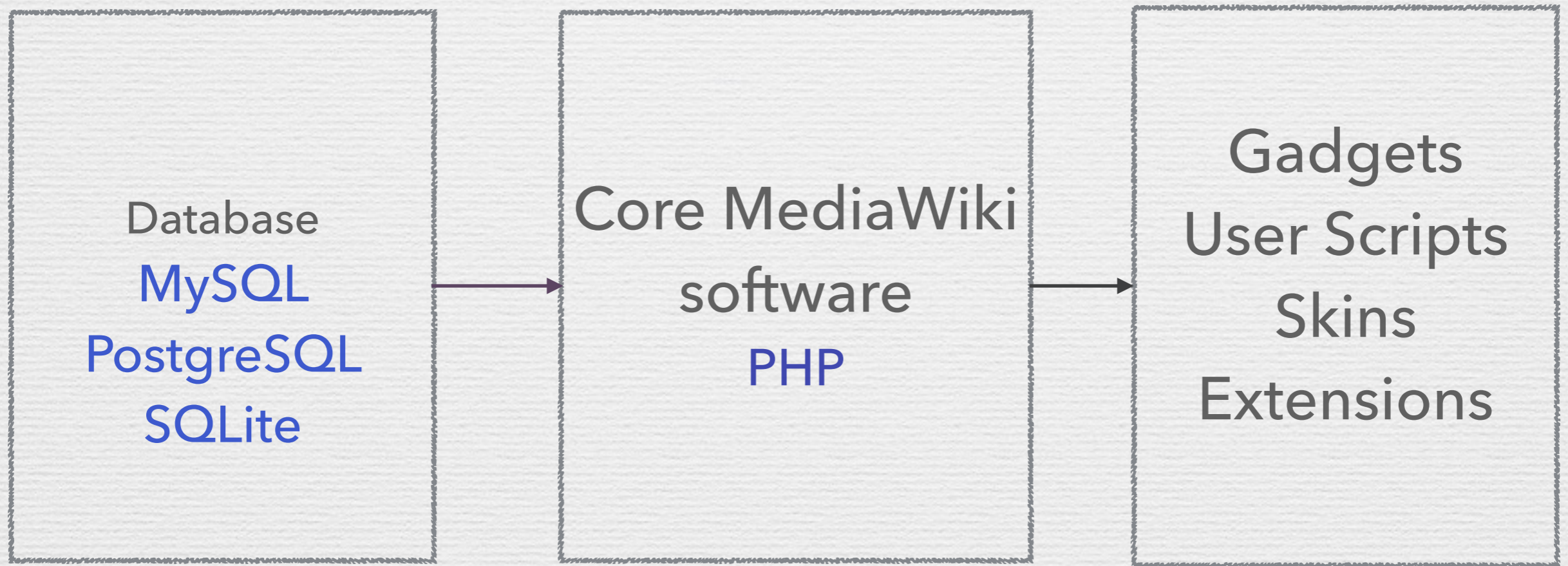
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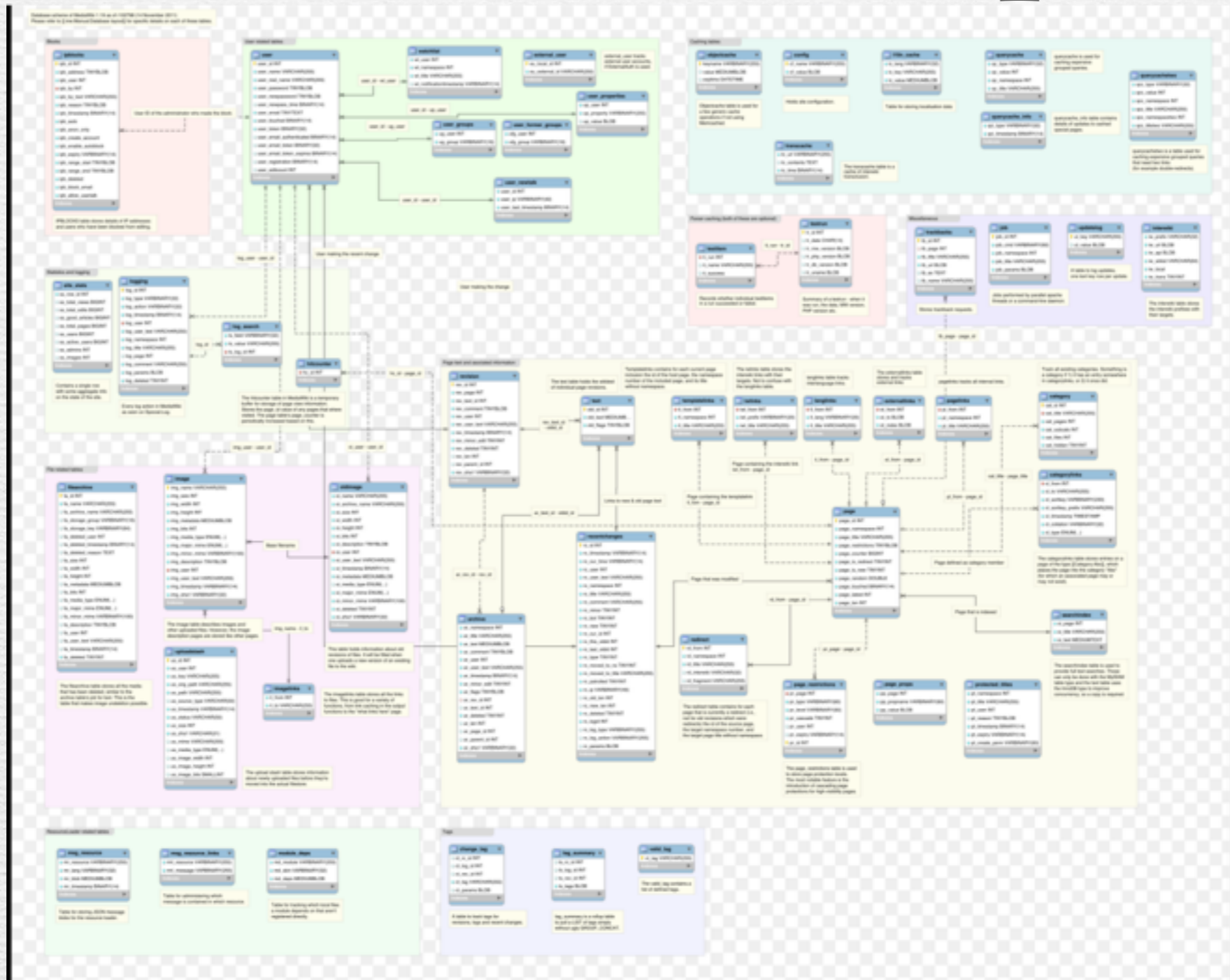
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MediaWiki Architecture Overview



Database for Wikipedia



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Where is the code?








- All code is hosted on Gerrit (which we will become friends with in a bit)
- The code is mirrored over to GitHub: _____
[wikimedia/mediawiki](https://github.com/wikimedia/mediawiki)

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Phabricator

- MediaWiki's bug reporting & tracking system
- Replaced Bugzilla last year
- Possibly a future Code-review system

-  **Maniphest** 21
Tasks and Bugs
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Host and Browse Repositories
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Browse and Audit Commits
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Personal Bookmarks
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Explore More Applications
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Assigned To Me 🔍

Needs Triage (6)

- i **T96880** Allow users to disable account and remove email in Grants review app Jun 24 2015, 11:30 AM
Patch-For-Review Wikimedia-IEG-grant-review Assigned: NiharikaKohli
- i **T103854** Create a documentation page on mediawiki.org about Grants Review app Jun 25 2015, 8:38 PM
Wikimedia-IEG-grant-review Assigned: NiharikaKohli
- i **T108636** [AOI] Investigation: Can we improve navigation popups? Thu, Aug 20, 10:05 AM
Community-Tech Assigned: NiharikaKohli
- i **T108628** [AOI] Investigation: Can we improve spell checking capabilities on Wikipedia? Sat, Aug 22, 12:40 AM
Community-Tech Assigned: NiharikaKohli
- i **T108425** [AOI] Investigation: Can we improve page stats? Fri, Aug 21, 9:36 AM
Community-Tech Assigned: NiharikaKohli
- i **T108282** Tracking: Update broken gadgets on WMF wikis Fri, Aug 21, 6:40 AM
Community-Tech Tracking JavaScript Wikimedia-General-or-Unknown Assigned: NiharikaKohli

High (1)

- i **T86509** "Add Proposal" does not port form errors back to view Apr 22 2015, 11:15 PM
Wikimedia-IEG-grant-review Assigned: NiharikaKohli

Normal (3)

- i **T95119** Let proposals be disabled Apr 29 2015, 10:34 PM
Patch-For-Review Wikimedia-IEG-grant-review Assigned: NiharikaKohli
- i **T93248** Allow campaigns to specify wikitext report template Jun 7 2015, 8:48 PM
Patch-For-Review Wikimedia-IEG-grant-review Assigned: NiharikaKohli

My Bookmarks 🔍

- i **T101100** Engineering Community quarterly g... ✎ ✕
 Create task
- i **T7309** Localize captcha images ✎ ✕
 Interesting

Subscribed 🔍

Unbreak Now! (1)

- i **T109306** End-term evaluation for "Unified Language pro...
VisualEditor-LanguageTool ECT-September-2015 ECT-August-2015 ECT-July-2015 ...

Needs Triage (12)


- i **T48522** Multilingual SemanticMediaWiki
Possible-Tech-Projects MediaWiki-extensions-Semantic-MediaWiki
- i **T94160** Linguistic Version Control for Polygraphia
Possible-Tech-Projects I18n
- i **T92818** The "Compact Language Link" is cut in Korean ...
ULS-CompactLinks MediaWiki-extensions-UniversalLanguageSelector
- i **T91655** Editor-focused dashboard extension
Community-Tech Editing-Department Possible-Tech-Projects




Backlog (Default) 12


Must have 3

In Dev/Progress 3


T108597 Confirmation box on removal of reviewers who have filed reviews for a campaign 


T89454 Let users see only those past campaigns which they were a part of, in the Reports section. 

T89452 Start and end campaign automatically at specified time 

T86509 "Add Proposal" does not port form errors back to view
NiharikaKohli 

T92800 Add form validation for multidimensional array in PHP 

T92799 Update
Controllers\Admin\Campaign.php to input multidimensional array instead of separate arrays for question title, body and footer 


T91253 Group related mass DB transactions into a single one 


T88807 Change vhost name to "grantreview.wikimedia.org" 

T87088 Prevent server side session cleanup due to inactivity 

T86968 Convert monolog to log directly to logstash 

T96882 Update privacy policy to meet the requirements from Legal 

T108591 Links from per reviewer proposal report to proposals broken, campaign id not populated 

T107310 Update production grant review app with latest code and schema
bd808 

T88809 Ensure that legal has reviewed longer term data retention
NiharikaKohli 

T103854 Create a documentation page on mediawiki.org about Grants Review app
NiharikaKohli 

T90086 Create a framework library from the common components of Wikimania Scholarships and Grants review app
bd808 

Confirmation box on removal of reviewers who have filed reviews for a campaign

Open Public

Assigned To **None**
 Priority **Normal**
 Author **NiharikaKohli**
 Subscribers **NiharikaKohli, Aklapper**
 Projects **Wikimedia-IEG-grant-review** (Backlog)

- Edit Task
- Merge Duplicates In
- Create Subtask
- Edit 'Blocked By' Tasks
- Edit Differential Revisions
- Edit Pholio Mocks
- Unsubscribe
- Award Token
- Flag For Later

DESCRIPTION

- Confirmation box if reviewer has filed reviews
- Delete reviews if confirmed removal of reviewer

- NiharikaKohli created this task. Via Web · Mon, Aug 10, 10:52 PM
- NiharikaKohli added a project: **Wikimedia-IEG-grant-review**.
- NiharikaKohli moved this task to **Backlog** on the **Wikimedia-IEG-grant-review** workboard.
- NiharikaKohli added a subscriber: **NiharikaKohli**.
- Herald added a subscriber: **Aklapper**. View Herald Transcript Via Herald · Mon, Aug 10, 10:52 PM

Add Comment

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What is Git?

- Git is, in a nutshell, a Versioning Control System (VCS).
- You have probably seen Git at work before - in Google Docs.
- Git stores comprehensive revision history.
- Git stores who made which changes and when.
- Online code repository hosting services like GitHub and BitBucket use Git.

What is Gerrit?

- **Gerrit**
- Software developers in a team can review each other's modifications on their source code using a Web browser and approve or reject those changes.
- It integrates closely with Git, a distributed version control system.

MoodBar.php

Review

[←Commit Message](#)

[↑Up to change](#)

[extens](#)

```
Patch Set Base 1 2 3 4 5 6 7 8
1 <?php
2 /**
3  * MoodBar extension
4  * Allows specified users to send their "mood" back to the site operator.
5  */
6
7 $wgExtensionCredits['other'][] = array(
8     'author' => array( 'Andrew Garrett', 'Timo Tijhof' ),
9     'descriptionmsg' => 'moodbar-desc',
10    'name' => 'MoodBar',
11    'url' => 'https://www.mediawiki.org/wiki/MoodBar',
12    'version' => '0.3.0',
13    'path' => __FILE__,
14 );
15
16 $moodBarDir = __DIR__ . '/';
17
18 // Object model
19 $wgAutoloadClasses['MBFeedbackItem'] = $moodBarDir . 'FeedbackItem.php';
20 $wgAutoloadClasses['MBFeedbackResponseItem'] = $moodBarDir . 'FeedbackResponseItem.php';
21 $wgAutoloadClasses['MWFeedbackResponseItemPropertyException'] = $moodBarDir . 'FeedbackResponseItem.php';
22 $wgAutoloadClasses['MoodBarFormatter'] = $moodBarDir . 'Formatter.php';
23 $wgAutoloadClasses['MoodBarHTMLEmailNotification'] = $moodBarDir . 'include/MoodBarHTMLEmailNotification.php';
24 $wgAutoloadClasses['MoodBarHTMLMailerJob'] = $moodBarDir . 'include/MoodBarHTMLMailerJob.php';
25 $wgAutoloadClasses['MoodBarUtil'] = $moodBarDir . 'include/MoodBarUtil.php';
26
27 // API
28 $wgAutoloadClasses['ApiMoodBar'] = $moodBarDir . 'ApiMoodBar.php';
29 $wgAPIModules['moodbar'] = 'ApiMoodBar';
30 $wgAutoloadClasses['ApiQueryMoodBarComments'] = $moodBarDir . 'ApiQueryMoodBarComments.php';
31 $wgAPIListModules['moodbarcomments'] = 'ApiQueryMoodBarComments';
32 $wgAutoloadClasses['ApiFeedbackDashboard'] = $moodBarDir . 'ApiFeedbackDashboard.php';
33 $wgAPIModules['feedbackdashboard'] = 'ApiFeedbackDashboard';
34 $wgAutoloadClasses['ApiFeedbackDashboardResponse'] = $moodBarDir . 'ApiFeedbackDashboardResponse.php';
35 $wgAPIModules['feedbackdashboardresponse'] = 'ApiFeedbackDashboardResponse';
36 $wgAutoloadClasses['ApiMoodBarSetUserEmail'] = $moodBarDir . 'ApiMoodBarSetUserEmail.php';
37 $wgAutoloadClasses['MWApmMoodBarSetUserEmailInvalidActionException'] = $moodBarDir . 'ApiMoodBarSetUserEmail.php';
38 $wgAPIModules['moodbarsetuseremail'] = 'ApiMoodBarSetUserEmail';
39
```

```
Patch Set 1 2 3 4 5 6 7 8
<?php
/**
 * MoodBar extension
 * Allows specified users to send their "mood" back to the site operator.
 */

if ( function_exists( 'wfLoadExtension' ) ) {
    wfLoadExtension( 'MoodBar' );
    // Keep i18n globals so mergeMessageFileList.php doesn't break
    $wgMessagesDirs['MoodBar'] = __DIR__ . '/i18n';
    $wgExtensionMessagesFiles['MoodBarAliases'] = __DIR__ . '/MoodBar.alias.php';

    /* wfWarn(
    'Deprecated PHP entry point used for Renameuser extension. Please use wfLoadExtension(),
    'see https://www.mediawiki.org/wiki/Extension_registration for more details.
    ); */
    return true;
} else {
    die( 'This version of the MoodBar extension requires MediaWiki 1.25+' );
}
```


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What is *MediaWiki-Vagrant*?

- **MediaWiki-Vagrant**

It consists of a set of configuration scripts for that automate the creation of a virtual machine that runs MediaWiki.

- The virtual machine that MediaWiki-Vagrant creates makes it easy to learn about, modify, and improve MediaWiki's code: useful debugging information is displayed by default, and various developer tools are set up specifically for inspecting and interacting with MediaWiki code, including a powerful debugger and an interactive interpreter.
- Provides a bunch of different roles - for all the different things you can do with MediaWiki!

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Internet Relay Chat

- One stop help source!
- Clients: Pidgin, textual, HexChat, mIRC, IRCCloud, KiwiIRC etc.
- Always remember: "Be nice, be respectful."
- A good time to ask for help is after ~9 pm IST.
- Channels for help on MediaWiki Development: #mediawiki and #wikimedia-dev

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MediaWiki API

- API: Application Programming Interface
- Access to (nearly) all of Wikipedia's data!
- The possibilities are endless: Generate reports, active editors, active wikis, number of edits.
- Used by Facebook/Google for traffic information
- Used by bots and gadget scripts

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MediaWiki Extensions

- MediaWiki extensions are used to extend upon the default functionality provided by the MediaWiki software.
- You can do nearly everything you can imagine with an extension.
- Extensions are a lot like gadgets - but the code is a lot more organized and can be easily added for all users in a wiki, along with better support for internationalizing content.

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Google Summer of Code

- Internship program for university students to participate in Open Source projects during the summer break.
- Students are mentored by open source organizations such as Wikimedia Foundation, Mozilla, GNOME etc.
- Google provides students with \$5500 stipend and a certificate, if the student successfully passes all evaluations by mentors.

Outreachy

- A special internship program run by GNOME for women only.
- Runs twice a year: During May-August and December-March.
- Anybody can participate (no University restriction).
- Same stipend as GSoC.

Questions?

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