Patterns in kernel/classes

Every class, view, fetch function, operator and plugin point of kernel/classes with its design patterns.

Source file: `doc/eng-us/standards/patterns/area-kernel-classes.md` Last changed 2026-11-04
https://doc.exponential.earth/learninminutes/exphelp/viewer/standards/patterns/area-kernel-classes.md

> **Note**
>
> This page is generated from the source code by `php bin/php/exppatterncatalogue.php --write`. Do not edit it by hand: change the code or the generator, then run the command again. How the patterns are recognized: the pattern catalogue.

Every class, interface and trait of `kernel/classes` with the patterns it was recognized as, followed by the module views, policy functions, fetch functions, template operators, cronjobs, event hooks and INI plugin points of the area. All patterns.

Classes (217)

Class	Kind	Patterns	File	Description
expAdminPagination	class	Utility (static helper)	kernel/classes/expadminpagination.php:19	One place to ask how many rows a list in the administration interface shows.
expAnonymousPublicPolicies	class	Utility (static helper)	kernel/classes/expanonymouspublicpolicies.php:29	The policies a visitor who is not signed in needs on a public site, beyond reading content: registering, reading the RSS feeds, the tag pages of ezta…
expBenchmark	class	Utility (static helper)	kernel/classes/expbenchmark.php:28	The statistics, the report formats and the regression check of exp:benchmark.
expBenchmarkHttp	class	Utility (static helper)	kernel/classes/expbenchmarkhttp.php:20	The HTTP side of exp:benchmark: requests a list of URLs, several at a time, with PHP's own curl (curl_multi), so no external program is needed.
expBenchmarkKernel	class	Utility (static helper)	kernel/classes/expbenchmarkkernel.php:29	The in-process side of exp:benchmark: what the kernel spends on the parts of a page, without HTTP, a web server or a response cache in between.

Class	Kind	Patterns	File	Description
expBenchmarkMicro	class	Utility (static helper)	kernel/classes/expbenchmarkmicro.php:33	The micro mode of exp:benchmark: pure-PHP hot paths of the kernel, timed in this process without HTTP, a web server or a database, so it runs on a CI...
expBookmarkPage	class	Utility (static helper)	kernel/classes/expbookmarkpage.php:18	What the bookmark page (content/bookmark) shows, worked out from plain arrays: the folders with their counts, which bookmarks a folder, a search and...
expBookmarkView	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/expbookmarkview.php:39	A bookmark of a system page: a page of a module view (setup/systemupgrade, exphelp/dashboard, audit/console/(user)/14 ...) instead of a node.
expCacheCatalogue	class	Factory and static factory methods	kernel/classes/expcachecatalogue.php:22	The caches of Setup › Caches, described for a person: what each holds, its id and tags, its directory, its size and number of files, when it was last...
expCacheManager	class	Facade / service	kernel/classes/expcachemanager.php:30	Everything Setup › Cache (kernel/setup/cache.php) can do, as functions that return what happened instead of setting template variables, so the admini...
expCacheWarm	class	Utility (static helper)	kernel/classes/expcachewarm.php:28	Keeps the response cache full, so that no visitor is the one who pays for a page to be rendered.
expCleanupRSS	class	–	kernel/classes/expcleanuprss.php:28	Trims the content an RSS import has created, keeping the newest items of each feed and removing the rest.

Class	Kind	Patterns	File	Description
expCollaborationGroupManager	class	Facade / service, Factory and static factory methods, Utility (static helper)	kernel/classes/expcollaborationgroupmanager.php:14	Creates, renames and deletes the collaboration groups of one user and moves items between them.
expCollaborationInbox	class	Utility (static helper)	kernel/classes/expcollaborationinbox.php:15	The collaboration summary as an inbox: every item of the current user with its state (waiting, approved, denied), its role for the user (approver or…
expCollaborationSampleData	class	–	kernel/classes/expcollaborationsampledata.php:19	Builds, reports and removes a self-contained set of sample content for the collaboration tool: a user group with three editors, an approval workflow…
expCollaborationSampleModule	class	–	kernel/classes/expcollaborationsampledata.php:856	The module the approval handler redirects with; here nothing is redirected.
expContentDraftList	class	Utility (static helper)	kernel/classes/expcontentdraftlist.php:20	What the drafts page (content/draft, "My drafts") lists, worked out from plain arrays: the filters of the address (translation, class, age, search, o…
expContentHistoryList	class	Utility (static helper)	kernel/classes/expcontenthistorylist.php:22	What the versions page of an object (content/history) lists, worked out from plain arrays: the filters of the address (status, translation, creator,…
expContentLanguageStates	class	Utility (static helper)	kernel/classes/expcontentlanguagestates.php:26	The state of each language of one content object, for the language badges of admin4 (design:parts/language_state_badge.tpl): the main language (the…

Class	Kind	Patterns	File	Description
expContentPendingList	class	Utility (static helper)	kernel/classes/expcontentpendinglist.php:21	What the pending page (content/pendinglist, "My pending items") lists, worked out from plain arrays: the versions the user sent for publishing that a...
expCronjobPause	class	Utility (static helper)	kernel/classes/expcronjobpause.php:27	Pauses cronjob parts: one part, or all of them, until someone resumes them.
expCrontabSetup	class	Factory and static factory methods	kernel/classes/expcrontabsetup.php:47	The cron job of an installation: the crontab lines that run its cronjob parts (runcronjobs.php), written by the installers and by bin/php/installcron...
expDemoMode	class	Factory and static factory methods, Utility (static helper)	kernel/classes/expdemomode.php:38	Demo mode: the environment variable EXP_DEMO_MODE=1 marks an installation as a public demo.
expEditorPolicies	class	Utility (static helper)	kernel/classes/expeditorpolicies.php:39	The policies an editor needs for everyday work and the Editor role of a new installation lacks: hiding and revealing, the trash (looking into it and...
expErrorHeaderList	class	Factory and static factory methods, Utility (static helper)	kernel/classes/experrorheaderlist.php:25	The response headers of an error page, from error.ini [HTTPError-]:
expExtensionCatalogue	class	Factory and static factory methods	kernel/classes/expextensioncatalogue.php:20	What Setup › Extensions knows about each extension: its metadata (expInfo), its declared dependencies (extension.xml), the designs and settings file...

Class	Kind	Patterns	File	Description
expExtensionChangePlan	class	Factory and static factory methods	kernel/classes/expextensionchangeplan.php:33	The change planner of Setup › Extensions: what a list of active extensions becomes when an administrator moves, activates or deactivates one, what di...
expImageUploadValidator	class	Utility (static helper)	kernel/classes/expimageuploadvalidator.php:35	Decides whether an uploaded file is an image the site accepts, by what the file contains rather than by its name.
ExpInstallationDetailsOutputFilter	class	Decorator / filter, Utility (static helper)	kernel/classes/expinstallationdetailsoutputfilter.php:15	Installation name output filter.
ExpInstallationOperator	class	Template operator (Interpreter plugin)	kernel/classes/expinstallationoperator.php:10	Template operators for exposing the installation name to templates:
expInstallDefaultExtensions	class	Utility (static helper)	kernel/classes/expinstalldefaultextensions.php:33	The extensions every new installation gets set up, whatever site package it is made from: two-step sign-in (sevenx_authentication_2fa) and imports (s...
expJsonSchemaValidator	class	Factory and static factory methods	kernel/classes/expjsonschemavalidator.php:20	Checks decoded JSON (json_decode(..., true)) against a JSON Schema (draft 2020-12), for the keywords the kernel's own schemas use: type, enum, cons...
expKernelExtensionOverrideList	class	INI plugin point (extension point)	kernel/classes/expkernelextensionoverridelist.php:21	The service "extensions.overrides": what the two extension activation passes of the web kernel (eZExtension::activateExtensions() 'default' and 'acce...

Class	Kind	Patterns	File	Description
expKernelServiceCompiler	class	Factory and static factory methods, Utility (static helper)	kernel/classes/expkernelservicecompiler.php:33	Builds, checks and removes the compiled kernel service container (var/cache/kernelservices/).
expKernelServiceContainer	class	–	kernel/classes/expkernelservicecontainer.php:35	The service container of the kernel: shared objects by name, made on first use, in their scope.
expKernelServices	class	Utility (static helper)	kernel/classes/expkernelservices.php:44	The kernel service container: the static facade, and the compiled boot of the web kernel.
expKernelServiceScope	class	–	kernel/classes/expkernelservicescope.php:31	The scopes of the kernel service container (expKernelServices), and the store of the worker scope.
expKickstarter	class	–	kernel/classes/expkickstarter.php:12	–
expKickstarterIni	class	–	kernel/classes/expkickstarterini.php:19	–
expLinkCheck	class	–	kernel/classes/explinkcheck.php:15	Decides whether a link of published content works, for the link check cronjob (linkcheck.php) and the link list (url/list).
expLoveStack	class	–	kernel/classes/explovestack.php:29	Finds what a site coming from LoveStack (mugoweb/Exponential-legacy) brings along that Exponential handles differently: the markers of its database (…

Class	Kind	Patterns	File	Description
expMaintenance	class	Utility (static helper)	kernel/classes/expmaintenance.php:29	Maintenance mode: while var/maintenance.json exists, every request to the front controllers is answered with a maintenance page (503, Retry-After, ne...
expManagedConfiguration	class	Utility (static helper)	kernel/classes/expmanagedconfiguration.php:25	site.ini [ConfigurationSettings] ManagedByDeployment=enabled: settings, templates and code come from the deployment only, and the admin interface doe...
expMemberManagement	class	Utility (static helper)	kernel/classes/expmembermanagement.php:27	Member management: user groups that manage the accounts of other user groups, set up from membermanagement.ini (doc/eng-us/bc/6.0/member-management.m...
expNamePatternResolverInterface	interface	Interface (contract)	kernel/classes/expnamepatternresolverinterface.php:27	A PHP class that makes the name of a content object, or the name its URL alias is made from, instead of the attribute tokens of the class's name patt...
expNodeQuickPick	class	Utility (static helper)	kernel/classes/expnodequickpick.php:18	Quick location buttons (doc/eng-us/features/6.0/quick-location-buttons.md): a few well-known places of the content tree, found from a short key (Webs...
expNotificationJob	class	Utility (static helper)	kernel/classes/expnotificationjob.php:17	A notification run for the status page ("Run now"), in the background.

Class	Kind	Patterns	File	Description
expNotificationService	class	Facade / service, Utility (static helper)	kernel/classes/expnotificationservice.php:26	The one place that knows how the notification system is run and looked at: the cronjob part, the exp:notification:* commands, the status page and its...
expPackageArchive	class	Utility (static helper)	kernel/classes/exppackagearchive.php:41	Opens a package archive (.ezpkg: a gzip compressed tar archive) for reading, after a bounded scan of its tar headers.
expPackageArchiveModes	class extends ezcArchiveCallback	–	kernel/classes/exppackagearchivemodes.php:20	The extract callback of a package archive (expPackageArchive::open()): every file it extracts gets 0644, every directory 0755, each within the limits...
expPackageConflictReport	class	Factory and static factory methods, Utility (static helper)	kernel/classes/exppackageconflictreport.php:22	What installing a package would meet on this installation, by remote id, without writing anything: for every content object of the package whether an...
expPackageJson	class	Utility (static helper)	kernel/classes/exppackagejson.php:34	The JSON serialization of a package (doc/eng-us/bc/6.0/package-json-format.md).
expPasswordPolicy	class	Singleton / instance()	kernel/classes/exppasswordpolicy.php:24	The rules a new password must meet, and what happens after a password was changed.
expPhar	class	Factory and static factory methods, Utility (static helper)	kernel/classes/expphar.php:21	Packages the engine -- the kernel and library class files -- into a phar, so the runtime can load them from one archive instead of from a thousand se...

Class	Kind	Patterns	File	Description
expPolicyOmitList	class	Utility (static helper)	kernel/classes/exppolicyomitlist.php:25	The modules and views that skip the policy check: site.ini [RoleSettings] PolicyOmitList[] without the entries of [RoleSettings] PolicyOmitListExclud ...
expPreloadAddress	class	Factory and static factory methods	kernel/classes/exppreloadaddress.php:26	Where the cache preloader finds a siteaccess: the address of its site, the url prefix that selects it on that host, and the pages a run starts from.
expPreloadHistory	class	–	kernel/classes/exppreloadhistory.php:22	The cache preloader's runs: one status file per run, .json, next to its events (.jsonl) in var//preload.
expPreloadJob	class	Utility (static helper)	kernel/classes/exppreloadjob.php:27	A cache preload run: started in the background from Setup › Preload, or in the foreground from the shell (bin/php/preload.php) , with one lock, one st...
expPreloadLock	class	–	kernel/classes/exppreloadlock.php:21	One cache preload at a time.
expProcessTools	class	Utility (static helper)	kernel/classes/expprocesstools.php:22	Finds the programs a background job needs: the PHP command line and setsid.
expScriptStatus	class	Singleton / instance()	kernel/classes/expscriptstatus.php:18	expScriptStatus - lightweight CLI progress/status reporter.
expSecretRule	class	Utility (static helper)	kernel/classes/expsecretrule.php:29	The one rule of what is a secret, shared by everything that shows or records settings and values: exp:ini and expIniEditor, the audit log (through ex...

Class	Kind	Patterns	File	Description
expSetupLog	class	Utility (static helper)	kernel/classes/expsetuplog.php:31	var/log/setup.log: one readable record per installation run.
expSetupWizardGuard	class	Utility (static helper)	kernel/classes/expsetupwizardguard.php:26	Decides what a request to the web setup wizard (setup/init) may do, before the wizard shows a page or touches maintenance mode.
expSiteAccessOverview	class	Factory and static factory methods, Utility (static helper)	kernel/classes/expsiteaccessoverview.php:31	Every siteaccess of the installation, how a request reaches it and where it is: the siteaccess part of Setup › System information (#552).
expSystemReport	class	Factory and static factory methods	kernel/classes/expsystemreport.php:29	The facts of Setup › System information and of exp:system:info, in sections, with health checks.
expSystemReportMask	class	Utility (static helper)	kernel/classes/expsystemreportmask.php:29	What Setup › System information, its text report and exp:system:info may show of a value.
expTestLanguage	class	Utility (static helper)	kernel/classes/exptestlanguage.php:17	Test languages: locales marked [LanguageSettings] TestLanguage=true in share/locale (the shipped one is Lorem Ipsum, qlo-ZZ), and the lorem ipsum tex...
expUserLoginIntegrity	class	Utility (static helper)	kernel/classes/expuserloginintegrity.php:35	One account per login: finds the logins more than one ezuser row has, adds the unique index on ezuser.login once there are none, and stores an accoun...
expVelocity	class	Factory and static factory methods	kernel/classes/expvelocity.php:38	Drives the bundled application server as a service.

Class	Kind	Patterns	File	Description
`expVelocityConfig`	class	–	`kernel/classes/expvelocityconfig.php:36`	Read and write the settings Exponential Velocity actually runs on.
`expVelocityConfigLayout`	class	–	`kernel/classes/expvelocityconfiglayout.php:41`	The server's configuration as a Debian Apache-style tree, and the move to it.
`expVelocityDeploy`	class	–	`kernel/classes/expvelocitydeploy.php:52`	Everything a PHP code change needs before it is live, in the one order that works: exp:velocity deploy.
`expVelocityFrankenPHP`	class extends expVelocity	–	`kernel/classes/expvelocityfrankenphp.php:34`	Velocity's second engine: FrankenPHP, the Caddy web server with PHP built in.
`expVelocityFrankenPHPInstaller`	class	–	`kernel/classes/expvelocityfrankenphpinstaller.php:28`	Puts the FrankenPHP binary in place for the frankenphp engine: `exp:velocity install`, and start's AutoInstall.
`expVelocityMarkers`	class	Factory and static factory methods	`kernel/classes/expvelocitymarkers.php:30`	The small state files that say why an engine is not running.
`expVelocityPHPServer`	class extends expVelocity	–	`kernel/classes/expvelocityphpserver.php:29`	Velocity's third engine: PHP's own built-in web server (php -S).
`expVelocityRestartUnit`	class	Factory and static factory methods	`kernel/classes/expvelocityrestartunit.php:34`	Runs exp:velocity restart as one detached unit: the stop and the start in a process that does not belong to the caller.
`expVelocityWatchdog`	class	–	`kernel/classes/expvelocitywatchdog.php:49`	A safety net that starts the default engine again when it is down and nobody meant it to be: exp:velocity watchdog.

Class	Kind	Patterns	File	Description
expViewAccess	class	Utility (static helper)	kernel/classes/expviewaccess.php:25	Whether a user can open an address of this siteaccess, decided the way the kernel decides a request (ezpKernelWeb): the URL alias (and wildcard) tran...
expViewParameters	class	Utility (static helper)	kernel/classes/expviewparameters.php:25	The options of an administration view or endpoint are view parameters, /(name)/value, never GET query parameters (as the help center's, doc/eng-us/fe...
expWeakPasswordList	class	Singleton / instance()	kernel/classes/expweakpasswordlist.php:35	The one list of well-known and common passwords, and the check every place that sets a new password uses: the setup wizard, the kickstarter and exp:i...
eZAudit	class	Utility (static helper)	kernel/classes/ezaudit.php:20	The 4.x audit API, kept so every existing call keeps working: eZAudit::writeAudit($name, $attributes) is recorded by expAudit (kernel/classes/audit ...
eZBasket	class extends eZPersistentObject	Active Record (eZPersistentObject)	kernel/classes/ezbasket.php:20	–
eZBinaryFileHandler	class	Singleton / instance(), Strategy / handler	kernel/classes/ezbinaryfilehandler.php:23	–
eZCache	class	Utility (static helper)	kernel/classes/ezcache.php:22	eZCache ezcache.php
eZCacheTrash	class	Registry, Utility (static helper)	kernel/classes/ezcachetrash.php:38	Removes a cache directory by renaming it out of the way first.

Class	Kind	Patterns	File	Description
eZClusterFileFailure	class	–	kernel/classes/ezclusterfilefailure.php:20	–
eZClusterFileHandler	class	Singleton / instance(), Strategy / handler, Utility (static helper)	kernel/classes/ezclusterfilehandler.php:11	–
eZCodeTemplate	class	–	kernel/classes/ezcodetemplate.php:18	–
eZCollaborationGroup	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationgroup.php:18	–
eZCollaborationItem	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationitem.php:18	–
eZCollaborationItemGroupLink	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationitemgrouplink.php:18	–
eZCollaborationItemHandler	class	Strategy / handler	kernel/classes/ezcollaborationitemhandler.php:18	–
eZCollaborationItemMessageLink	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationitemmessagelink.php:18	–
eZCollaborationItemParticipantLink	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationitemparticipantlink.php:18	–
eZCollaborationItemStatus	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationitemstatus.php:18	–

Class	Kind	Patterns	File	Description
eZCollaborationProfile	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Singleton / instance(), Utility (static helper)	kernel/classes/ezcollaborationprofile.php:18	–
eZCollaborationSimpleMessage	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcollaborationsimplemessage.php:18	–
eZCollaborationViewHandler	class	Singleton / instance(), Strategy / handler	kernel/classes/ezcollaborationviewhandler.php:18	–
eZConfirmOrderHandler	class	Singleton / instance(), Strategy / handler	kernel/classes/ezconfirmorderhandler.php:18	–
eZContentBrowse	class	–	kernel/classes/ezcontentbrowse.php:33	–
eZContentBrowseBookmark	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentbrowsebookmark.php:35	–
eZContentBrowseBookmarkFolder	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcontentbrowsebookmarkfolder.php:32	–
eZContentBrowseRecent	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcontentbrowserecent.php:34	–
eZContentCache	class	Utility (static helper)	kernel/classes/ezcontentcache.php:18	–

Class	Kind	Patterns	File	Description
eZContentCacheManager	class	Facade / service, Utility (static helper)	kernel/classes/ezcontentcachemanager.php:26	–
eZContentClass	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentclass.php:20	–
eZContentClassAttribute	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentclassattribute.php:19	–
eZContentClassClassGroup	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcontentclassclassgroup.php:18	–
eZContentClassEditHandler	class	INI plugin point (extension point), Strategy / handler	kernel/classes/ezcontentclassedithandler.php:15	Handler for content class editing.
eZContentClassGroup	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcontentclassgroup.php:18	–
eZContentClassName	class extends eZPersistentObject	Active Record (eZPersistentObject), Utility (static helper)	kernel/classes/ezcontentclassname.php:12	–
eZContentClassNameList	class extends eZSerializedObjectNameList	–	kernel/classes/ezcontentclassnamelist.php:12	–
eZContentClassOperations	class	–	kernel/classes/ezcontentclassoperations.php:20	–
eZContentFunctions	class	Factory and static factory methods, Utility (static helper)	kernel/classes/ezcontentfunctions.php:12	–

Class	Kind	Patterns	File	Description
eZContentLanguage	class extends eZPersistentObject	Active Record (eZPersistentObject), INI plugin point (extension point)	kernel/classes/ezcontentlanguage.php:12	–
eZContentObject	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentobject.php:17	Encapsulates data about and methods to work with content objects
eZContentObjectAssignmentHandler	class	Strategy / handler	kernel/classes/ezcontentobjectassignmenthandler.php:18	–
eZContentObjectAttribute	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentobjectattribute.php:20	–
eZContentObjectEditHandler	class	Strategy / handler	kernel/classes/ezcontentobjecteditHandler.php:19	–
eZContentObjectOperations	class	–	kernel/classes/ezcontentobjectoperations.php:20	–
eZContentObjectTranslation	class	–	kernel/classes/ezcontentobjecttranslation.php:20	–
eZContentObjectTrashNode	class extends eZContentObjectTreeNode	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezcontentobjecttrashnode.php:15	Encapsulates data about and methods to work with content objects which reside in the trash
eZContentObjectTreeNode	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentobjecttreenode.php:17	Encapsulates data about and methods to work with content objects inside the content object tree

Class	Kind	Patterns	File	Description
eZContentObjectTreeNodeOperations	class	Utility (static helper)	kernel/classes/ezcontentobjecttreenodeoperations.php:22	–
eZContentObjectVersion	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezcontentobjectversion.php:19	–
eZContentUpload	class	–	kernel/classes/ezcontentupload.php:51	–
eZContentUploadHandler	class	Strategy / handler	kernel/classes/ezcontentuploadhandler.php:28	–
eZDataType	class	Factory and static factory methods, Registry	kernel/classes/ezdatatype.php:46	–
eZDBGarbageCollector	class	Utility (static helper)	kernel/classes/ezdbgarbagecollector.php:33	–
eZDiscount	class	–	kernel/classes/ezdiscount.php:12	–
eZDiscountRule	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezdiscountrule.php:18	–
eZDiscountSubRule	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezdiscountsubrule.php:18	–
eZDiscountSubRuleValue	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/ezdiscountsubrulevalue.php:17	–
eZError	class	–	kernel/classes/ezerror.php:16	–

Class	Kind	Patterns	File	Description
eZHTTPHeader	class	Utility (static helper)	kernel/classes/ezhttpheader.php:18	–
eZInformationCollection	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezinformationcollection.php:22	–
eZInformationCollectionAttribute	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezinformationcollectionattribute.php:19	–
eZNamePatternResolver	class	Factory and static factory methods, Strategy / handler	kernel/classes/eznamepatternresolver.php:40	eZNamePatternResolver is a utility class for resolving object name and url alias patterns.
eZNavigationPart	class	Utility (static helper)	kernel/classes/eznavigationpart.php:32	–
eZNodeAssignment	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/eznodeassignment.php:17	–
eZNodeviewfunctions	class	Utility (static helper)	kernel/classes/eznodeviewfunctions.php:18	–
eZOrder	class extends eZPersistentObject	Active Record (eZPersistentObject)	kernel/classes/ezorder.php:20	–
eZOrderItem	class extends eZPersistentObject	Active Record (eZPersistentObject)	kernel/classes/ezorderitem.php:27	–
eZOrderStatus	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezorderstatus.php:47	–

Class	Kind	Patterns	File	Description
eZOrderStatusHistory	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezorderstatushistory.php:35	–
eZPackage	class	Factory and static factory methods	kernel/classes/ezpackage.php:20	–
eZPackageCatalog	class	Utility (static helper)	kernel/classes/ezpackagecatalog.php:23	What the package pages say about the packages on disk: every repository with its counts, one card per package (name, version, type, summary, maintain...
eZPackageComparison	class	Factory and static factory methods, Utility (static helper)	kernel/classes/ezpackagecomparison.php:36	Compares what a package carries with what the site has, for package/compare/.
eZPackageComparisonDiff	class	Utility (static helper)	kernel/classes/ezpackagecomparisondiff.php:20	A word level difference of two texts, for the package comparison viewer (package/compare, eZPackageComparison): which words were removed from the fir...
eZPackageComparisonFileCollector	class	–	kernel/classes/ezpackagecomparisonfilecollector.php:18	Stands in for an eZPackage when eZPackageComparison asks a datatype to serialize one of the site's own attributes, so that the site's value comes out...
eZPackageComparisonImport	class	Utility (static helper)	kernel/classes/ezpackagecomparisonimport.php:34	Imports what a package brings for single items of its comparison with the site (eZPackageComparison, package/compare): a new object is created where...
eZPackageCreationHandler	class	Singleton / instance(), Strategy / handler	kernel/classes/ezpackagecreationhandler.php:21	–

Class	Kind	Patterns	File	Description
eZPackageDownload	class	Utility (static helper)	kernel/classes/ezpackagedownload.php:25	Sends a file of the package module (an exported archive, a file out of a package) to the browser in pieces.
eZPackageFileBrowser	class	Utility (static helper)	kernel/classes/ezpackagefilebrowser.php:17	Read-only support for the package contents browser on package/view/full/: every file a package's own directory carries, paginated and filtered, and o…
eZPackageHandler	class	Strategy / handler	kernel/classes/ezpackagehandler.php:18	–
eZPackageInstallationHandler	class	Singleton / instance(), Strategy / handler	kernel/classes/ezpackageinstallationhandler.php:19	–
eZPackageLicense	class	Utility (static helper)	kernel/classes/ezpackagelicense.php:28	–
eZPackageRemovalPlan	class	Factory and static factory methods, Utility (static helper)	kernel/classes/ezpackageremovalplan.php:20	What removing a selection of packages would do, before it is done: per package its directory, files and size, whether it is installed (its install re…
eZPackageRequestGuard	class	Utility (static helper)	kernel/classes/ezpackagerequestguard.php:16	The checks every package view applies to what a request names before anything is read from disk: a package name, a repository, a view mode and a file…
eZPackageUploadInspector	class	Utility (static helper)	kernel/classes/ezpackageuploadinspector.php:33	Looks at a package archive before anything of it is written into a repository.
eZPackageVersion	class	Utility (static helper)	kernel/classes/ezpackageversion.php:55	–
eZPathElement	class extends eZPersistentObject	Active Record (eZPersistentObject)	kernel/classes/ezpathelement.php:23	–

Class	Kind	Patterns	File	Description
eZPDFExport	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezpdfexport.php:19	–
eZPendingActions	class extends eZPersistentObject	Active Record (eZPersistentObject), Utility (static helper)	kernel/classes/ezpendingactions.php:12	–
eZPersistentObject	class	–	kernel/classes/ezpersistentobject.php:38	Allows for object persistence in a database
eZPolicy	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezpolicy.php:19	–
eZPolicyLimitation	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezpolicylimitation.php:18	–
eZPolicyLimitationValue	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezpolicylimitationvalue.php:18	–
eZPreferences	class	Utility (static helper)	kernel/classes/ezpreferences.php:22	–
eZProductCategory	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/ezproductcategory.php:18	–
eZProductCollection	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezproductcollection.php:16	eZProductCollection is a container class which handles groups of products
eZProductCollectionItem	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezproductcollectionitem.php:20	–

Class	Kind	Patterns	File	Description
eZProductCollectionItemOption	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezproductcollectionitemoption.php:12	–
eZRedirectManager	class	Facade / service, Utility (static helper)	kernel/classes/ezredirectmanager.php:22	–
eZRole	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezrole.php:35	–
eZRSSExport	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezrssexport.php:19	–
eZRSSExportItem	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/ezrssexportitem.php:19	–
eZRSSExportOPMLItem	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezrssexportopmlitem.php:26	One line of an OPML export: a feed that the export lists.
eZRSSImport	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezrssimport.php:19	–
eZRunCronjobs	class	Utility (static helper)	kernel/classes/ezruncronjobs.php:15	–
eZScript	class	Singleton / instance()	kernel/classes/ezscript.php:49	–
eZSearch	class	Factory and static factory methods, Utility (static helper)	kernel/classes/ezsearch.php:19	–
eZSearchLog	class	Utility (static helper)	kernel/classes/ezsearchlog.php:18	–

Class	Kind	Patterns	File	Description
eZSection	class extends eZPersistentObject	Active Record (eZPersistentObject)	kernel/classes/ezsection.php:18	–
eZSerializedObjectNameList	class	–	kernel/classes/ezserializedobjectnamelist.php:12	–
eZShippingManager	class	Facade / service, Utility (static helper)	kernel/classes/ezshippingmanager.php:17	–
eZShopAccountHandler	class	Singleton / instance(), Strategy / handler	kernel/classes/ezshopaccounthandler.php:12	–
eZSiteAccess	class	Front Controller, Utility (static helper)	kernel/classes/ezsiteaccess.php:17	Provides functions for siteaccess handling
eZSiteData	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/ezsitedata.php:21	eZPersistentObject implementation for ezsite_data table.
eZSiteInstaller	class	Factory and static factory methods	kernel/classes/ezsiteinstaller.php:23	–
eZSSLZone	class	Utility (static helper)	kernel/classes/ezsslzone.php:27	–
eZStaticCache	class implements ezpStaticCache	INI plugin point (extension point)	kernel/classes/ezstaticcache.php:30	The eZStaticCache class manages the static cache system.
eZSubtreeCache	class	Utility (static helper)	kernel/classes/ezsubtreecache.php:18	–
eZTextInputParser	class	–	kernel/classes/eztextinputparser.php:17	–
eZTipafriendCounter	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/eztipafriendcounter.php:18	–
eZTipafriendRequest	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/eztipafriendrequest.php:17	–

Class	Kind	Patterns	File	Description
eZTrigger	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/eztrigger.php:17	–
eZURLAliasFilter	abstract class	Decorator / filter, Template Method / abstract base class	kernel/classes/ezurlaliasfilter.php:22	The eZURLAliasFilter class the interface for all url alias filters, the filter implementation must implement the process method.
eZURLAliasML	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezurlaliasml.php:58	–
eZURLAliasQuery	class	Factory and static factory methods	kernel/classes/ezurlaliasquery.php:34	–
eZURLWildcard	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezurlwildcard.php:19	–
eZUserDiscountRule	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezuserdiscountrule.php:18	–
eZVATManager	class	Facade / service, Utility (static helper)	kernel/classes/ezvatmanager.php:18	–
eZVatRule	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezvatrule.php:18	–
eZVatType	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezvattype.php:19	–

Class	Kind	Patterns	File	Description
eZViewCounter	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezviewcounter.php:12	–
eZWishList	class extends eZPersistentObject	Active Record (eZPersistentObject)	kernel/classes/ezwishlist.php:20	–
eZWorkflow	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, INI plugin point (extension point)	kernel/classes/ezworkflow.php:18	–
eZWorkflowEvent	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezworkflowevent.php:18	–
eZWorkflowEventType	class extends eZWorkflowType	Registry	kernel/classes/ezworkfloweventtype.php:18	–
eZWorkflowGroup	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezworkflowgroup.php:18	–
eZWorkflowGroupLink	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods, Utility (static helper)	kernel/classes/ezworkflowgrouplink.php:18	–
eZWorkflowGroupType	class extends eZWorkflowType	Registry	kernel/classes/ezworkflowgrouptype.php:18	–
eZWorkflowProcess	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	kernel/classes/ezworkflowprocess.php:19	–

Class	Kind	Patterns	File	Description
eZWorkflowType	class	Factory and static factory methods, Registry	kernel/classes/ezworkflowtype.php:18	–

Event hooks (11)

Event	Kind	Called in
image/invalidateAliases	notify	kernel/classes/ezcache.php:715
content/class/cache/all	notify	kernel/classes/ezcache.php:862
user/cache/all	notify	kernel/classes/ezcache.php:885
content/cache/all	notify	kernel/classes/ezcache.php:898
content/state/cache/all	notify	kernel/classes/ezcache.php:968
content/cache	notify	kernel/classes/ezcontentcachemanager.php:818
content/cache/all	notify	kernel/classes/ezcontentcachemanager.php:826
content/cache/all	notify	kernel/classes/ezcontentcachemanager.php:1182
content/edit/access	filter	kernel/classes/ezcontentobject.php:6375
content/move	notify	kernel/classes/ezcontentobjecttreenode.php:5415
content/view/cachekeys	filter	kernel/classes/eznodeviewfunctions.php:414

Exponential Copyright © 1998-2026 Exponential Foundation and 7x
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".
This documentation is free documentation, licensed under the GNU Free Documentation License 1.3 or later:
https://www.gnu.org/licenses/fdl-1.3.html.