Template Method / abstract base class

An abstract class that fixes the steps of an algorithm and leaves some of them to its subclasses. 69 instances in Exponential.

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> **Note**
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An abstract class that fixes the steps of an algorithm and leaves some of them to its subclasses.

Group	Behavior
Instances	69
Recognized by	An abstract class with both abstract and concrete methods.
Extension point	Extend the base class and implement its abstract methods.

Classes by area

extension/cjw_newsletter (1)

All patterns of extension/cjw_newsletter

Class	Kind	File	Description	Extension point
`CjwNewsletterSmsTransportBase`	abstract class	`extension/cjw_newsletter/classes/sms/cjwnewslettersmstransportbase.php:29`	What the shipped SMS transports share: the settings with their preset, the generic check of an inbound request (an HMAC of the body with a shared sec…	–

extension/expai (6)

All patterns of extension/expai

Class	Kind	File	Description	Extension point
`expAiBatchApi`	abstract class	`extension/expai/classes/lanes/expaibatchapi.php:27`	A provider's batch API: submit many requests at once, poll the batch, fetch the results, cancel, delete.	extension/expai/settings/rad.ini [Registry_expai_batch_apis] Implements

Class	Kind	File	Description	Extension point
expAiProviderBase	abstract class	extension/expai/classes/expaiproviderbase.php:16	What every built-in provider shares: its settings (the [Provider_] values merged with the [Model_] values, see expAiProviderRegistry::settingsFor()),...	–
expAiSegmenterBase	abstract class	extension/expai/classes/diff/expaisegmenterbase.php:14	The plain-text segmenters' common part: blocks are pieces of text joined with a separator; merge() and compose() build the list of pieces and join it.	–
expAiTool	abstract class	extension/expai/classes/expaitool.php:16	A tool the assistant can call.	extension/expai/settings/rad.ini [Registry_expai_tools] Entries[Class]
expAiWebSearchProvider	abstract class	extension/expai/classes/web/expaiwebsearchprovider.php:16	A web search service for web_search.	extension/expai/settings/rad.ini [Registry_expai_search_providers] Entries[Class]
expAiWebTool	abstract class extends expAiTool	extension/expai/classes/web/expaiwebtool.php:19	The base of the tools that read outside the content tree (web_fetch, web_search, project_history): - available(): offered only to a user with the pol...	–

extension/explayouts (1)

All patterns of extension/explayouts

Class	Kind	File	Description	Extension point
expLayoutsAbstractContentBlockHandler	abstract class	extension/explayouts/classes/explayoutsabstractcontentblockhandler.php:3	–	–

extension/expquery_translator (2)

All patterns of extension/expquery_translator

Class	Kind	File	Description	Extension point
QueryTranslator\Languages\Galach\Generators\Lucene\Common\WordBase	abstract class extends Visitor	extension/expquery_translator/lib/Languages/Galach/Generators/Lucene/Common/WordBase.php:14	Base Word Node Visitor implementation.	–

Class	Kind	File	Description	Extension point
QueryTranslator\Languages\Galach\TokenExtractor	abstract class	extension/expquery_translator/lib/Languages/Galach/TokenExtractor.php:14	Token extractor is used by Tokenizer to extract tokens from the input string.	–

extension/expqueue (1)

All patterns of extension/expqueue

Class	Kind	File	Description	Extension point
expQueueHandlerBase	abstract class	extension/expqueue/classes/expqueuehandlerbase.php:12	A base for handlers with the optional parts: validate() is called when a job is queued (a wrong payload is refused there and then, not at 3 a.m.	–

extension/expservices (5)

All patterns of extension/expservices

Class	Kind	File	Description	Extension point
expAttrServiceBase	abstract class extends expServiceBase	extension/expservices/classes/media/expattrservicebase.php:11	Shared helpers of the media services (images, files, media): finding a node's attribute of one datatype, absolute URLs, and the paged listing of the...	–
expCommunityBase	abstract class extends expServiceBase	extension/expservices/classes/community/expcommunitybase.php:12	The shared work of the forum, topic, reply and comment services: they are content services over configurable content classes ([Community] in expservi...	–

Class	Kind	File	Description	Extension point
expContentServiceBase	abstract class extends expServiceBase	extension/expservices/classes/content/expcontentbase.php:12	The shared part of the content domains of expservices: fetch helpers with the access checks, the exporters that turn content objects into plain array...	–
expServiceBase	abstract class extends ezjscServerFunctions	extension/expservices/classes/expservicebase.php:38	–	–
expUsersBase	abstract class extends expServiceBase	extension/expservices/classes/users/expusersbase.php:21	The shared part of the users and access domains of expservices: the compact declaration format and the helpers that encode users and groups without e...	–

extension/ezoe (1)

All patterns of extension/ezoe

Class	Kind	File	Description	Extension point
expOEEditorEngineBase	abstract class	extension/ezoe/classes/expoeeditorenginebase.php:14	Convenience base of editor engines: reads the engine's own ezoe.ini block [Engine_] (ToolbarMap[]=, ExternalPlugins[]=, Scripts[], Styles[], Version,...	–

extension/sevenx_authentication_2fa (1)

All patterns of extension/sevenx_authentication_2fa

Class	Kind	File	Description	Extension point
eZOAuthUser	abstract class extends eZUser	extension/sevenx_authentication_2fa/classes/ezoauthuser.php:26	–	–

extension/sevenx_dse (8)

All patterns of extension/sevenx_dse

Class	Kind	File	Description	Extension point
AdminNeo\Connection	abstract class	extension/sevenx_dse/adminneo/core/Connection.php:5	–	–
AdminNeo\Driver	abstract class	extension/sevenx_dse/adminneo/core/Driver.php:5	–	–
AdminNeo\MsSqlPdoConnection	abstract class extends PdoConnection	extension/sevenx_dse/adminneo/drivers/mssql.inc.php:236	–	–
AdminNeo\Origin	abstract class extends Plugin	extension/sevenx_dse/adminneo/core/Origin.php:7	–	–
AdminNeo\PdoConnection	abstract class extends Connection	extension/sevenx_dse/adminneo/include/pdo.inc.php:11	–	–
AdminNeo\Plugin	abstract class	extension/sevenx_dse/adminneo/core/Plugin.php:13	Plugin parent class.	–
AdminNeo\Result	abstract class	extension/sevenx_dse/adminneo/core/Result.php:7	–	–
AdminNeo\SqLiteConnectionBase	abstract class extends Connection	extension/sevenx_dse/adminneo/drivers/sqlite.inc.php:18	–	–

extension/sqliimport (8)

All patterns of extension/sqliimport

Class	Kind	File	Description	Extension point
expImportAbstractSource	abstract class	extension/sqliimport/classes/exp/expimportabstractsource.php:14	The common part of the file sources: the configuration, the record reference from a key field, the sample and the text encoding.	–
expImportContentLineSource	abstract class extends expImportAbstractSource	extension/sqliimport/classes/exp/sources/expimportcontentlinesource.php:21	The common part of the text formats made of "content lines" (iCalendar, RFC 5545, and vCard, RFC 6350 and 2426):	–

Class	Kind	File	Description	Extension point
expImportCrawlSource	abstract class extends expImportJsonSource	extension/sqliimport/classes/exp/sources/expimportcrawlsource.php:16	The common part of the formats that read public web pages (sitemap, webpage).	–
expImportDataTableFieldSourceBase	abstract class	extension/sqliimport/classes/exp/expimportdatatablefieldsourcebase.php:17	The fields of an import's source for the kernel's "Module table" wizard (Exponential 6.0.15, the data table layer): the card "Create a new table from...	–
expImportHttpQuerySource	abstract class extends expImportJsonSource	extension/sqliimport/classes/exp/sources/expimporthttpquerysource.php:19	What the sources have in common that send a query in a database's own language to its HTTP API (Neo4j, ArangoDB, ClickHouse, Snowflake, InfluxDB): th...	–
expImportShopCsvSource	abstract class extends expImportCsvSource	extension/sqliimport/classes/exp/sources/expimportshopcsvsource.php:18	The product exports of shop systems as CSV, where one product may span several rows (its variants, its images): the file is read as the CSV source re...	–
SQLIImportAbstractHandler	abstract class	extension/sqliimport/classes/sourcehandlers/sqliimportabstracthandler.php:13	Abstract class for all import handlers All import handlers must inherit from this class	–

Class	Kind	File	Description	Extension point
SQLIImportOptions	abstract class extends ezcBaseOptions	extension/sqliimport/classes/options/sqliimportoptions.php:18	Base of all options classes for SQLIImport Simple override of ezcBaseOptions from eZComponents, implementing Iterator interface	–

extension/xrowextract (1)

All patterns of extension/xrowextract

Class	Kind	File	Description	Extension point
XrowExtractTransport	abstract class	extension/xrowextract/classes/transports/xrowextracttransport.php:10	One way of delivering a file to (or, for a scheduled import, fetching one from) a destination.	–

extension/xrowmetadata (1)

All patterns of extension/xrowmetadata

Class	Kind	File	Description	Extension point
xrowSitemapItem	abstract class extends ezcBaseStruct	extension/xrowmetadata/classes/structs/xrowsitemapitem.php:3	–	–

kernel/classes (1)

All patterns of kernel/classes

Class	Kind	File	Description	Extension point
eZURLAliasFilter	abstract class	kernel/classes/ezurlaliasfilter.php:22	The eZURLAliasFilter class the interface for all url alias filters, the filter implementation must implement the process method.	–

kernel/classes/audit (4)

All patterns of kernel/classes/audit

Class	Kind	File	Description	Extension point
expAuditAlertRuleBase	abstract class	kernel/classes/audit/alerts/expauditalertrulebase.php:13	Shared code of the built-in alert rule classes: the record fields a rule groups by, the time of a record, and the de-duplication (doc/eng-us/bc/6.0/a…	–
expAuditFormatBase	abstract class	kernel/classes/audit/format/expauditformatbase.php:14	Shared code of the archive format handlers (doc/eng-us/bc/6.0/audit.md, "Rotation, archives and retention"): streaming compression through a PHP stre…	–
expAuditSinkBase	abstract class	kernel/classes/audit/sinks/expauditsinkbase.php:14	Shared code of the audit sinks: the sink's settings block ([AuditSink_]), which records it wants (Events[] patterns and MinSeverity) and whether it d…	–
expAuditSourceBase	abstract class	kernel/classes/audit/console/expauditsourcebase.php:11	The base of an audit console source (expAuditSource): every method answers "nothing", so a source implements only what it shows.	–

kernel/classes/contentjob (1)

All patterns of kernel/classes/contentjob

Class	Kind	File	Description	Extension point
expContentJobBatchType	abstract class	kernel/classes/contentjob/expcontentjobbatchtype.php:28	The common ground of the content job types that work on a list of nodes: move, hide, reveal, section, state, addlocation and removelocation.	–

kernel/classes/ini (1)

All patterns of kernel/classes/ini

Class	Kind	File	Description	Extension point
expIniActionBase	abstract class	kernel/classes/ini/actions/expiniactionbase.php:15	What the built-in exp:ini actions share: the three describing methods from class constants, the printing of a value as INI lines, and the small check…	–

kernel/classes/requestclassifier (1)

All patterns of kernel/classes/requestclassifier

Class	Kind	File	Description	Extension point
expRequestPatternRuleSet	abstract class	kernel/classes/requestclassifier/exprequestpatternruleset.php:29	A rule set made of regular expressions: one per rule, all of them compiled into one combined expression, so a request costs one preg_match() per subj…	–

kernel/classes/subitems (2)

All patterns of kernel/classes/subitems

Class	Kind	File	Description	Extension point
expSubitemsColumn	abstract class	kernel/classes/subitems/expsubitemscolumn.php:19	The base class of a column of the admin subitems list ("Table options").	–
expSubitemsFieldColumn	abstract class extends expSubitemsColumn	kernel/classes/subitems/columns/expsubitemsfieldcolumn.php:22	The common base of the shipped column families of the admin subitems list.	–

kernel/classes/syscard (1)

All patterns of kernel/classes/syscard

Class	Kind	File	Description	Extension point
expSysCardBaseProvider	abstract class	kernel/classes/syscard/expsyscardbaseprovider.php:23	The usual provider: set the properties, write collect(), and use fact() and the helpers.	–

kernel/classes/uiswitch (1)

All patterns of kernel/classes/uiswitch

Class	Kind	File	Description	Extension point

Class	Kind	File	Description	Extension point
expUISwitchProvider	abstract class	kernel/classes/uiswitch/expuiswitchprovider.php:18	The common part of a UI switch provider: its settings group uiswitch.ini [UISwitch_], the allow-list from AllowedValues[] (each value checked by the…	–

kernel/modules (2)

All patterns of kernel/modules

Class	Kind	File	Description	Extension point
expExtensionWizard	abstract class	kernel/setup/expextensionwizard.php:20	What every extension wizard needs, whatever kind of extension it builds.	–
ezpClusterGateway	abstract class	kernel/clustering/gateway.php:15	Basis for a cluster gateway.	–

kernel/private (12)

All patterns of kernel/private

Class	Kind	File	Description	Extension point
ezpAsynchronousPublishingFilter	abstract class	kernel/private/classes/ezpasynchronouspublishingfilter.php:24	This interface is to be used to create accept/reject filters for the Asynchronous Publishing feature Each filter class must implement the accept() me…	–
ezpContentException	abstract class extends ezcBaseException	kernel/private/api/content/exceptions/content_exception.php:17	This is the base exception for the Exponential content API	–
ezpOauthBadRequestException	abstract class extends ezpOauthException	kernel/private/rest/classes/exceptions/bad_request.php:17	This is the base exception for triggering BAD REQUEST response.	–

Class	Kind	File	Description	Extension point
ezpOauthException	abstract class extends ezcBaseException	kernel/private/rest/classes/exceptions/oauth.php:17	This is the base exception for the Exponential oauth library.	–
ezpOauthRequiredException	abstract class extends ezpOauthException	kernel/private/rest/classes/exceptions/auth.php:17	This is the base exception for responsenses need authentication.	–
ezpRestAuthenticationStyle	abstract class	kernel/private/rest/classes/auth/styles/abstract_auth_style.php:11	–	–
ezpRestCacheStorageCluster	abstract class extends ezpRestCacheStorageFile	kernel/private/rest/classes/cache/cluster.php:11	–	–
ezpRestException	abstract class extends ezcBaseException	kernel/private/rest/classes/exceptions/rest_exception.php:17	This is the base exception for the Exponential REST layer	–
ezpRestMvcController	abstract class extends ezcMvcController	kernel/private/rest/classes/controllers/rest_controller.php:15	Abstract class that must be extended by every REST controller	–
ezpRestPrefixFilterInterface	abstract class	kernel/private/rest/classes/prefix_filter.php:12	–	–
ezpRestRouteFilterInterface	abstract class	kernel/private/rest/classes/interfaces/route_filter.php:11	–	–
ezpUpdatedContent	abstract class	kernel/private/rest/classes/sync/updates.php:23	This class provides API through which one can query for updated content items.	–

kernel/private/classes/runnable (4)

All patterns of kernel/private/classes/runnable

Class	Kind	File	Description	Extension point

Class	Kind	File	Description	Extension point
Exponential\Runnable\Command	abstract class extends Runnable	kernel/private/classes/runnable/command.php:36	A CLI command.	–
Exponential\Runnable\CronjobPart	abstract class extends Runnable	kernel/private/classes/runnable/cronjobpart.php:21	A cronjob part.	–
Exponential\Runnable\ModuleView	abstract class extends Runnable	kernel/private/classes/runnable/moduleview.php:23	A module view.	–
Exponential\Runnable\Runnable	abstract class	kernel/private/classes/runnable/runnable.php:30	The base of everything Exponential runs from a file: CLI commands (bin/), cronjob parts (cronjobs/) and module views (kernel//.php, extension//module...	–

kernel/private/classes/views (1)

All patterns of kernel/private/classes/views

Class	Kind	File	Description	Extension point
Exponential\View\Kernel\Mailpreferences\Page	abstract class extends ModuleView	kernel/private/classes/views/mailpreferences/page.php:19	What the views of the mailpreferences module share: the variables of the including function, rendering a page of design:mailpreferences/, the answer...	–

lib/ezdb (1)

All patterns of lib/ezdb

Class	Kind	File	Description	Extension point
eZMySQLCharset	abstract class	lib/ezdb/classes/ezmysqlcharset.php:13	–	–

lib/ezsession (1)

All patterns of lib/ezsession

Class	Kind	File	Description	Extension point

Class	Kind	File	Description	Extension point
`ezpSessionHandler`	abstract class	`lib/ezsession/classes/ezpsessionhandler.php:27`	Abstract session handler class to extend	–

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