Patterns in extension/expqueue

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

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> **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 `extension/expqueue` 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 (27)

Class	Kind	Patterns	File	Description
expQueue	class	Factory and static factory methods, Utility (static helper)	extension/expqueue/classes/expqueue.php:26	The job queue: what producers call (enqueue, groups, cancel, pause/resume, retry, results) and the state changes the workers and the admin make.
expQueueAdmin	class	Utility (static helper)	extension/expqueue/classes/expqueueadmin.php:14	Helpers of the admin module expqueue: the page result with its path, the rows the templates show (every label and duration prepared here, so the temp...
expQueueAuditBranch	class implements expAuditTaxonomyBranch	INI plugin point (extension point)	extension/expqueue/classes/expqueueauditbranch.php:15	The audit taxonomy branch of expqueue (registered in settings/audit.ini.append.php): system.queue., one event per operator action on the queue and pe...
expQueueCancelledException	class extends expQueueException	Exception hierarchy	extension/expqueue/classes/expqueuecancelledexception.php:9	Thrown by expQueueContext::throwIfCancelled() when the job was cancelled while it ran; the job ends cancelled.

Class	Kind	Patterns	File	Description
expQueueCommand	class	Command (console, scripts, cronjobs), Factory and static factory methods	extension/expqueue/classes/expqueuecommand.php:17	The commands ./console ext:expqueue: (extension/expqueue/bin/php/.php); each file only calls expQueueCommand::main('').
expQueueConfig	class	Singleton / instance()	extension/expqueue/classes/expqueueconfig.php:15	The settings of expqueue (expqueue.ini), with the defaults that apply when a setting is missing.
expQueueContext	class	–	extension/expqueue/classes/expqueuecontext.php:32	What a handler gets with its job: the lease (heartbeat), cooperative cancellation, progress, the result checkpoint and the rate-limit hand-off of its...
expQueueEvent	class extends eZPersistentObject	Active Record (eZPersistentObject), Factory and static factory methods	extension/expqueue/classes/expqueueevent.php:15	The history of a job (table expqueue_event), append-only, removed with the job.
expQueueException	class extends RuntimeException	Exception hierarchy	extension/expqueue/classes/expqueueexception.php:9	An error of the queue itself: an unknown class or type, a quota reached, a job that cannot change state.
expQueueFailHandler	class extends expQueueHandlerBase	INI plugin point (extension point), Strategy / handler	extension/expqueue/classes/handlers/expqueuefailhandler.php:16	expqueue.fail: fails on purpose, to try retries, backoff, the dead letter and the rate-limit adaptation.
expQueueGroup	class extends eZPersistentObject	Active Record (eZPersistentObject)	extension/expqueue/classes/expqueuegroup.php:15	A set of jobs that belong together (table expqueue_group): "translate subtree X into ten languages", a package import, a chain run.
expQueueHandler	interface	INI plugin point (extension point), Interface (contract), Strategy / handler	extension/expqueue/classes/expqueuehandler.php:27	A job handler: the code that runs the jobs of one type.

Class	Kind	Patterns	File	Description
expQueueHandlerBase	abstract class implements expQueueHandler	Strategy / handler, Template Method / abstract base 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.
expqueueInfo	class	Value object / struct	extension/expqueue/ezinfo.php:7	–
expQueueJob	class extends eZPersistentObject	Active Record (eZPersistentObject)	extension/expqueue/classes/expqueuejob.php:25	One job (table expqueue_job).
expQueueLock	class	Utility (static helper)	extension/expqueue/classes/expqueuelock.php:25	The dispatcher lock and the queue's directory.
expQueueNoopHandler	class extends expQueueHandlerBase	INI plugin point (extension point), Strategy / handler	extension/expqueue/classes/handlers/expqueuenoophandler.php:12	expqueue.noop: does nothing and is done.
expQueuePermanentException	class extends expQueueException	Exception hierarchy	extension/expqueue/classes/expqueuepermanentexception.php:12	Thrown by a handler for an error that another attempt cannot fix (invalid input, a refusal, a missing object): the job goes to the dead letter at onc...
expQueueResource	class	Utility (static helper)	extension/expqueue/classes/expqueueresource.php:22	The concurrency limiter of a resource (table expqueue_resource): a key such as "anthropic:standard" or "imaging" that jobs name with the option resou...
expQueueResult	class	Factory and static factory methods	extension/expqueue/classes/expqueueresult.php:18	What a handler's run() returns when an array (done) is not enough.
expQueueRetryableException	class extends expQueueException	Exception hierarchy	extension/expqueue/classes/expqueueretryableexception.php:13	Thrown by a handler for an error that may go away: a timeout, a 429 or 5xx answer, a resource that is busy.
expQueueScheduler	class	–	extension/expqueue/classes/expqueuescheduler.php:38	Chooses the next job for a worker and leases it to that worker; keeps the queue moving (maintenance).

Class	Kind	Patterns	File	Description
expQueueSchema	class	Utility (static helper)	extension/expqueue/classes/expqueueschema.php:28	The tables of expqueue, defined once here in the kernel's generic schema format.
expQueueService	class	Facade / service, Utility (static helper)	extension/expqueue/classes/expqueueservice.php:22	The systemd service of the queue's workers: ./console ext:expqueue:service install|start|stop|status|uninstall.
expQueueSleepHandler	class extends expQueueHandlerBase	INI plugin point (extension point), Strategy / handler	extension/expqueue/classes/handlers/expqueuesleephandler.php:16	expqueue.sleep: waits, in steps, reporting progress and honouring a cancel between the steps.
expQueueStats	class	Utility (static helper)	extension/expqueue/classes/expqueuestats.php:15	The figures of the queue for the dashboard (expqueue/dashboard) and ./console ext:expqueue:status: counts per state, per class and per resource, the...
expQueueWorker	class	–	extension/expqueue/classes/expqueueworker.php:24	Runs jobs one after another until a limit is reached: the loop of ./console ext:expqueue:work, of the cron part expqueue and of the systemd service.

Module views (5)

View	Script	Policy functions	Defined in
/expqueue/dashboard	dashboard.php	view	extension/expqueue/modules/expqueue/module.php:14
/expqueue/list	list.php	view	extension/expqueue/modules/expqueue/module.php:20
/expqueue/job	job.php	view	extension/expqueue/modules/expqueue/module.php:28
/expqueue/group	group.php	view	extension/expqueue/modules/expqueue/module.php:34
/expqueue/action	action.php	manage	extension/expqueue/modules/expqueue/module.php:41

Policy functions (2)

Function	Limitations	Defined in
expqueue/view	–	extension/expqueue/modules/expqueue/module.php:48
expqueue/manage	–	extension/expqueue/modules/expqueue/module.php:49

Cronjob parts (1)

Cronjob	File	Description
expqueue	extension/expqueue/cronjobs/expqueue.php	The cron part "expqueue" (php runcronjobs.php -q expqueue, every minute): the default worker of the queue and the safety net next to a systemd servic...

INI plugin points (5)

Setting	Class	Set in
[AuditEventSettings] Branches[expqueue]	expQueueAuditBranch	extension/expqueue/settings/audit.ini.append.php:5
[JobType_expqueue.noop] Handler	expQueueNoopHandler	extension/expqueue/settings/expqueue.ini.append.php:167
[JobType_expqueue.sleep] Handler	expQueueSleepHandler	extension/expqueue/settings/expqueue.ini.append.php:173
[JobType_expqueue.fail] Handler	expQueueFailHandler	extension/expqueue/settings/expqueue.ini.append.php:178
[Registry_expqueue_job_types] Entries[Handler]	expQueueHandler	extension/expqueue/settings/rad.ini.append.php:21

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