Patterns in kernel/classes/requestclassifier

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

Source file: `doc/eng-us/standards/patterns/area-kernel-classes-requestclassifier.md` Last changed 2026-11-04
https://doc.exponential.earth/learninminutes/exphelp/viewer/standards/patterns/area-kernel-classes-requestclassifier.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/requestclassifier` 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 (12)

Class	Kind	Patterns	File	Description
`expRequestClassifier`	class	Singleton / instance()	`kernel/classes/requestclassifier/exprequestclassifier.php:29`	The request classifier: tells a probe, a traversal, an injection, a scanner or a burst of not-found answers from an ordinary request, and writes one...
`expRequestContext`	class	Factory and static factory methods	`kernel/classes/requestclassifier/exprequestcontext.php:20`	What the request classifier looks at: one request, as it came in.
`expRequestPatternRuleSet`	abstract class implements expRequestRuleSetInterface	Template Method / abstract base 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...

Class	Kind	Patterns	File	Description
expRequestRuleSetInjection	class extends expRequestPatternRuleSet	–	kernel/classes/requestclassifier/expRequestrulesetinjection.php:21	Category "injection": signatures of SQL, command, template (SSTI) and script (XSS) injection in the query or the path, decoded once (%3Cscript in the...
expRequestRuleSetInterface	interface	Interface (contract)	kernel/classes/requestclassifier/expRequestrulesetinterface.php:24	A rule set of the request classifier (settings/requestclassifier.ini, RuleSets[] and [RuleSet-] Class=).
expRequestRuleSetProbes	class extends expRequestPatternRuleSet	–	kernel/classes/requestclassifier/expRequestrulesetprobes.php:25	Category "probe": a request for something an Exponential site does not have and a scanner looks for: WordPress, hidden files (.env, .git), database t...
expRequestRuleSetScanner	class extends expRequestPatternRuleSet	–	kernel/classes/requestclassifier/expRequestrulesetscanner.php:18	Category "scanner": the user agent of a known attack or discovery tool (sqlmap, nikto, nuclei ...).
expRequestRuleSetThreshold	class implements expRequestRuleSetInterface	–	kernel/classes/requestclassifier/expRequestrulesetthreshold.php:22	Category "threshold", rule "404-rate": more than Max404PerMinute not-found answers (404 and 410, see settings/requestclassifier.ini [ThresholdSetting...
expRequestRuleSetTraversal	class extends expRequestPatternRuleSet	–	kernel/classes/requestclassifier/expRequestrulesettraversal.php:17	Category "traversal": a path that tries to climb out of the web root (../, ..), encoded (%2e%2e, any case) or double-encoded (%252e), and null bytes...
expRequestThresholdCounter	class	–	kernel/classes/requestclassifier/expRequestthresholdcounter.php:25	Counts events per key in fixed time windows (a minute by default), in small JSON files shared by every process of the installation: the web server's...

Class	Kind	Patterns	File	Description
`expRequestVerdict`	class	–	`kernel/classes/requestclassifier/exprequestverdict.php:16`	What the request classifier found: the category (probe, traversal, injection, scanner, threshold, or one an extension's rule set adds), the rule, how...
`expRequestVerdictListenerInterface`	interface	Interface (contract), Observer / listener / event	`kernel/classes/requestclassifier/expquestverdictlistenerinterface.php:18`	Told about every verdict of the request classifier after its security.log line is written (settings/requestclassifier.ini [ClassifierSettings] Listen...

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