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package TWiki::Engine

The engine class is a singleton that implements details about TWiki's execution mode. This is the base class and implements basic behavior.

Each engine should inherit from this and overload methods necessary to achieve correct behavior.

ObjectMethod CRLF () -> \$crlf

Utility constant. Defined as sub thus can be used from children objects.

ClassMethod new () -> \$engine

Constructs an engine object.

ObjectMethod run ()

Start point to TWiki Runtime Engines.

ObjectMethod prepare () -> \$req

Initialize a TWiki::Request object by calling many preparation methods and returns it, or a status code in case of error.

ObjectMethod prepareConnection (\$req)

Abstract method, must be defined by inherited classes.

- \$req - TWiki::Request object to populate

Should fill remoteAddr, method and secure fields of \$req object.

ObjectMethod prepareQueryParameters (\$req, \$queryString)

Should fill \$req's query parameters field.

This method populates \$req as it should if given \$queryString parameter. Subclasses may redefine this method and call SUPER with query string obtained.

ObjectMethod prepareHeaders (\$req)

Abstract method, must be defined by inherited classes.

- \$req - TWiki::Request object to populate

Should fill \$req's headers and remoteUser fields.

ObjectMethod preparePath (\$req)

Abstract method, must be defined by inherited classes.

- \$req - TWiki::Request object to populate

Should fill \$req's uri and pathInfo fields.

ObjectMethod prepareCookies (\$req)

- \$req - TWiki::Request object to populate

Should fill \$req's cookie field. This method take cookie data from previously populated headers field and initializes from it. Maybe doesn't need to overload in children classes.

ObjectMethod prepareBody (\$req)

Abstract method, must be defined by inherited classes.

- \$req - TWiki::Request object to populate

Should perform any initialization tasks related to body processing.

ObjectMethod prepareBodyParameters (\$req)

Abstract method, must be defined by inherited classes.

- \$req - TWiki::Request object to populate

Should fill \$req's body parameters.

ObjectMethod prepareUploads (\$req)

Abstract method, must be defined by inherited classes.

- \$req - TWiki::Request object to populate

Should fill \$req's uploads field. Its a hashref whose keys are parameter names and values TWiki::Request::Upload objects.

ObjectMethod finalize (\$res, \$req)

Finalizes the request by calling many methods to send response to client and take any appropriate finalize actions, such as delete temporary files.

- \$res is the TWiki::Response object
- \$req it the TWiki::Request object. Needed to finalizeUploads

ObjectMethod finalizeUploads (\$res, \$req)

Abstract method, must be defined by inherited classes.

- \$res - TWiki::Response object to get data from
- \$req - TWiki::Request object to get data from

Should delete any temp files created in preparation phase.

ObjectMethod finalizeError (\$res)

Called if some engine specific error happens.

- \$res - TWiki::Response object to get data from

ObjectMethod finalizeHeaders (\$res, \$req)

Base method, must be redefined by inherited classes. For convenience this method deals with HEAD requests related stuff. Children classes should call SUPER.

- \$res - TWiki::Response object to get data from
- \$req - TWiki::Request object to get data from

Should call finalizeCookies and then send \$res' headers to client.

ObjectMethod finalizeCookies (\$res)

- \$res - TWiki::Response object to both get data from and populate

Should populate \$res' headers field with cookies, if any.

ObjectMethod finalizeBody (\$res)

- \$res - TWiki::Response object to get data from

Should send \$res' body to client. This method calls `write()` as needed, sou engines should redefine that method insted of this one.

ObjectMethod prepareWrite (\$res)

Abstract method, must be defined by inherited classes.

- \$res - TWiki::Response object to get data from

Shold perform any task needed before writing. That's ok if none needed 😊

ObjectMethod write (\$buffer)

Abstract method, must be defined by inherited classes.

- \$buffer - chunk of data to be sent

Should send \$buffer to client.

This topic: TWiki > TWikiEngineDotPm

Topic revision: r1 - 2010-05-29 - TWikiContributor



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