



Stick 0.4 API

Modules: Stick 0.4 API

stick

The **stick** module provides the **Application** class which is the centerpiece of the Stick framework.

A Stick Application is a JSGI application which provides means to compose complex applications out of modular middleware components.

stick/helpers

A collection of helper functions that makes working with Stick middleware easier.

stick/middleware

Convenience module that provides access to all Stick middleware using a single **require()** call.

stick/middleware/accept

This module provides middleware to check if a HTTP request accepts the possible response and makes content negotiation more convenient.

stick/middleware/basicauth

Basic Authentication middleware.

To apply authentication to parts of your website configure this middleware and call the app's **basicauth** method with the URI path, user name, and SHA1 digest of the user's password as arguments for each path you want to protect:

stick/middleware/continuation

Provide support for JavaScript 1.7 generator actions.

This middleware supports two types of yield values from generators: Promises and JSGI response objects.

If a generator action yields a promise, this middleware adds a listener to that promise that will feed the value back to the

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generator once the promise is resolved. If the promise resolves to an error, the error is thrown in the generator.

For example, if `promise` is a promise, the `yield` statement will interrupt execution of the action until the promise is resolved, at which point the generator is resumed with the value of the promise being assigned to the `resolved` variable.

```
var resolved = yield promise;
```

If a generator action yields a JSJI response, the response is sent to the client. To be able to yield more than one response from the same generator, the generator has to be associated with a continuation id and stored in the user's session. This is done by calling `continuation.activate()` before yielding the first response. The `activate()` method tells the middleware to store the generator in the user's session and returns a continuation id.

For subsequent invocations of the generator, the continuation id has to be set as query string parameter with name `_c`. When suspended generator is resumed, the new request object is passed in as value for the last yield statement.

```
function continuation(request) {
  var c = app.continuation.activate();
  while(true) {
    request = yield response.html(linkTo(app, {_c: c}));
  }
}
```

See <http://blog.ometer.com/2010/11/28/a-sequential-actor-like-api-for-server-side-javascript/> for background.

[stick/middleware/cookies](#)

This module provides middleware for reading cookies from the request.

[stick/middleware/cors](#)

Cross-site HTTP Request headers

Ability to configure all CORS headers. For a detailed explanation on what the different headers do see [MDN on CORS](#)

Even if `allowOrigin` is defined as `"*"` (`allowOrigin: ['*']`) this

middleware will always respond with an "Access-Control-Allow-Origin" header with the value of the "Origin" header.

stick/middleware/csrf

A middleware for CSRF mitigation, using either the synchronizer token or the double submission cookie pattern (see [OWASP CSRF Prevention Cheat Sheet](#) for a detailed explanation).

This middleware extends the request object by adding two methods:

- `getCsrfToken()` returns the CSRF token value for the current request, creating and storing it in the current session if necessary
- `rotateCsrfToken()` creates a new CSRF token and stores it in the current session

Use `getCsrfToken()` of the request object to add the token value as hidden input to all forms generated by the application, and make sure the name of the form input is configured accordingly (defaults to "csrftoken").

The token value returned by `getCsrfToken()` is additionally stored either in the current session (default) or in a cookie. The POST parameter and the token value stored are compared, and in case of a mismatch this middleware returns a 403 "Forbidden" response.

For non-POST requests this middleware accepts the token sent as query parameter or custom header field.

Configuration options:

`app.csrf()` accepts an object as parameter containing the following properties (default values in brackets):

- `tokenLength`: The length of the CSRF token (32)
- `checkReferrer`: Enable strict referrer checking for HTTPS requests (true)
- `rotate`: If true tokens are only used once and modified after each validation (false)
- `getToken`: By default the middleware expects the submitted

CSRF token in either a post or query parameter `csrftoken` or in a custom request header `x-csrf-token` (in this order). To customize this define a function that will receive the request object as single argument and is expected to return the CSRF token (or null).

- `getFailureResponse`: An optional function receiving the request as single argument. This method is called if the CSRF validation failed, and is expected to return a valid JSGI response (default: 403 forbidden).
- `safeMethods`: An array containing request method names that are considered safe, so no token validation is done (`["GET", "HEAD", "OPTIONS", "TRACE"]`)

Cookie mode

The following options switch the middleware into "double submission cookie" mode, and allow detailed configuration of the cookie:

- `useCookie`: If true the CSRF token is stored in a cookie
- `cookieName`: The name of the cookie to set (`"csrftoken"`)
- `cookieHttpOnly`: If true the `httpOnly` flag of the cookie is set (true)
- `cookieSecure`: If true the `secure` flag of the cookie is set (false)

`stick/middleware/error`

Middleware to catch errors and generate simple error pages.

By default, resource `stick/middleware/error.html` is used as page template. This can be set through the `app.error.template` property. This is the complete list of properties that influence the behaviour of this middleware:

- **template** the error page template (*string*)
- **message** static error message to use instead of actual message (*string*)

- **location** whether to report any information about the code location of the error (*boolean*)
- **stack** whether to include a JavaScript stack trace (*boolean*)
- **javaStack** whether to include a Java stack trace (*boolean*)

stick/middleware/etag

Middleware for conditional HTTP GET request based on response body message digests.

The response body must implement a `digest()` method for this middleware to work.

stick/middleware/gzip

Middleware for on-the-fly GZip compression of response bodies.

By default only text content types are compressed. This can be controlled using the `gzip.contentTypes` property:

stick/middleware/method

JSJI middleware for HTTP method override.

Since older browsers are not able to send XMLHttpRequest with methods other than `GET` and `POST`, this middleware allows the method of `POST` requests to be overridden based on the value of a HTTP form parameter. The default name for the override parameter is `_method`. This can be configured through the `method.key` property.

stick/middleware/mount

This module provides middleware for mounting other applications on a specific URI path or virtual host.

Applying this middleware adds a `mount` method to the application. The `mount` method takes a path or virtual host specification and an application as arguments. If the spec is a string, it is interpreted as the URI path on which the app will be mounted. If it is an object, it may contain `path` or `host` properties that will be matched against the URI path and `Host` header of incoming requests. *Note that virtual host based mounting has not been tested so far.*

The `mount` method accepts an optional third boolean `noRedirect` argument. If set to `true` it will disable redirecting GET requests to the mount base URL without a trailing slash to the same URL with trailing slash. By default, mount middleware will send a redirect to the mount URL with trailing slash.

Mounting one application within another causes the `scriptName` and `pathInfo` properties in the request object to be adjusted so that the mounted application receives the same `pathInfo` as if it was the main application. This means that forward and reverse request routing will usually work as expected.

This middleware maintains an index mapping applications to mount points which can be accessed using the `lookup` function. The `[stick/helpers][helpers]` module provides higher level functions for this which include support for the route middleware.

`stick/middleware/notfound`

Middleware for simple Not-Found pages.

By default, resource `stick/middleware/notfound.html` is used as page template. This can be set through the `app.notfound.template` property.

- **template** the notfound page template (*string*)

`stick/middleware/params`

This module provides middleware for parsing HTTP parameters from the query string and request body.

It does not parse multipart MIME data such as file uploads which are handled by the `[upload][middleware/upload]` module.

`stick/middleware/profiler`

This module provides profiling middleware to measure the application's runtime behaviour.

Profiler data is written to the module's logger. You have to run the application in interpreted mode (passing `-o -1` on the command line) to get meaningful results.

`stick/middleware/render`

This module provides middleware for rendering responses using ringo/mustache.

This middleware installs a `render` function in the application object which is used to render HTTP responses. The behaviour of `app.render` can be tweaked by setting the following properties:

- `render.base` – the base path or repository to look for templates
- `render.helpers` – helper functions that will be merged in the context
- `render.master` – master template which is applied on the top of processing the page with template given in the `.render` function.
- `render.contentType` – MIME type to use for HTTP response
- `render.charset` – charset name to use for HTTP response

stick/middleware/requestlog

Middleware for collecting log messages issued during execution of the current request.

This adds a `requestlog` property to the application object with an `items` property. During execution of a request `items` contains an array containing all the log messages issued for the request. Log messages are represented as arrays in the format `[time, level, name, message]`.

During request execution, the `requestlog` property also defines a property called `start` containing the time the execution started.

By default, messages are appended to the response if its Content-Type is `text/html`. This can be controlled using the `app.requestlog.append` boolean flag.

stick/middleware/route

Middleware for HTTP method based local request routing.

This installs `get`, `post`, `put`, `del` and `options` methods in the

application object for routing requests with the corresponding HTTP methods. These methods take a path spec as first argument and a function as second argument.

Paths and Placeholders

The path spec can consist of static parts and placeholders. Named placeholders are prefixed by `:` (colon) and match all characters except for `/` (slash) and `.` (dot). A named placeholder can be marked as optional by appending `?` (question mark). Unnamed placeholders are denoted by the asterisk character `*` and match all characters including slashes and dots.

In the following example, `":id"` is a named placeholder:

```
"/post/:id"
```

All placeholders are passed to the action function as positional arguments following the request object in the order in which they appear in the path spec. Unmatched optional placeholders will be **undefined**.

```
app.get("/post/:id", function(req, id) {...});
```

Reverse Routing

The route middleware supports generating URLs from route names and parameters required by the route.

Routes names can either be defined explicitly by passing the route name as third argument, or are derived from the route's path spec by stripping out all placeholders and removing a leading slash. For example, a path spec `/post/:id.html` results in route name `"post.html"`. If a path spec does not contain any static part, its route name is `"index"`.

Passing a valid route name and the parameters required by the route to the `route.reverse` method will return the URI path for the corresponding action. For example, with a route spec `/post/:id.html`, calling `app.route.reverse({action: "post.html", id: 5})` will return the string `"/post/5.html"`.

The `[stick/helpers][helpers]` module provides higher level helpers for reverse routing including support for mounted applications.

stick/middleware/session

This module provides middleware for HTTP sessions.

It adds a **session** property to the request object that allows to store arbitrary data on a per-visitor basis.

The default session implementation is based on Java Servlet sessions. This can be overridden by setting the **app.session.impl** property to an alternative session constructor.

```
app.session.impl = MySession;
```

The session constructor will be called with the request object as only argument when the session is first accessed.

stick/middleware/static

Middleware for serving static resources.

This installs a **static()** method in the application that accepts the following arguments:

- **base**: the base resource directory (required)
- **index**: the name of a file to serve if the path matches a directory (e.g. "index.html")
- **baseURI**: a common prefix for a resource URI (e.g. "/static")

You can call **static()** multiple times to register multiple resources to be served.

stick/middleware/upload

This module provides support for parsing multipart MIME messages used for file uploads.

This module behaves analogous and can be used in combination with the [params][middleware/params] middleware.

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Module stick

The `stick` module provides the `Application` class which is the centerpiece of the Stick framework.

A Stick Application is a JSJI application which provides means to compose complex applications out of modular middleware components.

Class `Application`

Instance Methods

`configure` (middleware...)
`env` (name)

Instance Properties

`base`
`request`

`Application` (nested)

The application object is a JSJI application that wraps a middleware chain.

When invoked without arguments, the `Application` constructor returns an application that wraps an `unhandled` middleware that throws an Error when called. Use `configure` to add middleware modules to the application.

When invoked with an argument, it is used as initial value for the application's middleware chain.

Parameters

function **nested** the nested application (optional)

`Application.prototype.base`

This application's base URI path as used by the current request, or null if unknown.

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Application.prototype.configure (middleware...)

Apply one or more middleware factories to this Application. Middleware will be wrapped around the existing middleware chain, starting with the rightmost argument. For example, the following invocation of configure on a newly created Application object:

```
app.configure("error", "route");
```

will result in `error(route(unhandled()))` as middleware chain.

Parameters

middleware... one or middleware factories. These can be defined as module names, imported modules, or middleware factories. For the middleware that is part of Stick it is sufficient to use the last part of the module id. e.g. "error" or "route".

Application.prototype.env (name)

Returns an Application object that shares the middleware chain of the original application, but can be configured to contain additional middleware that is not shared with the parent application.

Repeated calls of the env method with the same argument return the same application object.

Parameters

string **name** the environment name

Application.prototype.request

The request object associated with the current thread, or null.

Module stick/helpers

A collection of helper functions that makes working with Stick middleware easier.

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[linkTo](#) (app, bindings, text)

Return a link to an action configured using the [route](#) middleware.

The link's URL is generated from the bindings argument as described for the [urlFor helper](#).

Parameters

object string	app	the application to link to
object	bindings	an object containing the bindings for the target URL.
string	text	the link text.

[redirectTo](#) (app, bindings)

Create a response that redirects the client to a different URL.

Parameters

string object	app	either the URL as string or an app to be passed to <code>`urlFor`</code>
bindings	bindings	to pass to <code>`urlFor`</code> if first argument is an app.

Returns

object	a JSOI response that will redirect the client to the specified target
--------	---

resolveApp (app)

Resolve a module name or module object to a JSJI application.

Parameters

app

urlFor (app, bindings)

Return a URL for an action configured using the **mount** and **route** middlewares.

The **app** argument specifies the Stick application to link to, either as reference to the app itself or as module id of a module exporting the app as **app**. The **bindings** argument contains information needed to determine the target action within that application. Properties in the bindings argument are interpreted as follows:

- The **action** property, if present, identifies the name of the action to link to. Action names are determined from the path arguments provided to the **route** middleware by removing all placeholders and the leading slash. For example, the name for an action routed with `/edit/:id` is "edit".
- Properties in the bindings object that have a placeholder with the same name in the target route are used to provide the value for this placeholder. For example, to URI path to an action in application **app** routed with `"/edit/:id"` with id **5** can be generated as follows:

```
urlFor(app, {action: "edit", id: 5})
```

- All other properties in the bindings object are set as query parameters in the generated URL. For example, if "index" is a route with no placeholders then calling `urlFor("index", {do: "search"})` will generate the URL `"/?do=search"`.

Note that the values for the current request are used as default values for **action** and route placeholders, so if you want to use to a different action or placeholder value you need to make that explicit.

Parameters

object string object	app bindings	the application to link to an object containing the bindings for the target URL.
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Module stick/middleware

Convenience module that provides access to all Stick middleware using a single `require()` call.

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Module `stick/middleware/accept`

This module provides middleware to check if a HTTP request accepts the possible response and makes content negotiation more convenient.

Functions

`middleware` (next, app)

`middleware` (next, app)

This middleware installs a `accept` function in the application object. If the client request does not accept one of the specified content types, the middleware returns a `406 – Not Acceptable` response.

Applying this middleware adds an `accepted` property to the request object. This contains an array with the client's accepted media types sorted from highest to the lowest quality.

Example

```
app.configure("accept", "route");
app.accept(["text/plain", "text/html"]);
app.get("/", function(req) {
  if (req.accepted[0].subType === "html") {
    return response.html("");
  } else {
    return response.text("foo");
  }
});
```

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
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Module `stick/middleware/basicauth`

Basic Authentication middleware.

To apply authentication to parts of your website configure this middleware and call the app's `basicauth` method with the URI path, user name, and SHA1 digest of the user's password as arguments for each path you want to protect:

Example

```
app.configure("basicauth");
app.basicauth('/protected/path', 'admin',
  '30B93F320076DE1304C34673F9F524F7EA7DB709');
```

Functions

`middleware` (next, app)

`middleware` (next, app)

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
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Module stick/middleware/continuation

Provide support for JavaScript 1.7 generator actions.

This middleware supports two types of yield values from generators: Promises and JSJI response objects.

If a generator action yields a promise, this middleware adds a listener to that promise that will feed the value back to the generator once the promise is resolved. If the promise resolves to an error, the error is thrown in the generator.

For example, if `promise` is a promise, the `yield` statement will interrupt execution of the action until the promise is resolved, at which point the generator is resumed with the value of the promise being assigned to the `resolved` variable.

```
var resolved = yield promise;
```

If a generator action yields a JSJI response, the response is sent to the client. To be able to yield more than one response from the same generator, the generator has to be associated with a continuation id and stored in the user's session. This is done by calling `continuation.activate()` before yielding the first response. The `activate()` method tells the middleware to store the generator in the user's session and returns a continuation id.

For subsequent invocations of the generator, the continuation id has to be set as query string parameter with name `_c`. When suspended generator is resumed, the new request object is passed in as value for the last yield statement.

```
function continuation(request) {  
  var c = app.continuation.activate();  
  while(true) {  
    request = yield response.html(linkTo(app, {_c: c}));  
  }  
}
```

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See <http://blog.ometer.com/2010/11/28/a-sequential-actor-like-api-for-server-side-javascript/> for background.

Functions

`middleware` (next, app)

`middleware` (next, app)

Parameters

next

app

Module `stick/middleware/cookies`

This module provides middleware for reading cookies from the request.

Functions

[middleware](#) (next, app)

Properties

[request.cookies](#)

[middleware](#) (next, app)

This middleware provides support for cookie access.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSGI middleware function
----------	----------------------------

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[request.cookies](#)

A cookies object for the current request.

See

[servletRequest](#)

Module `stick/middleware/cors`

Cross-site HTTP Request headers

Ability to configure all CORS headers. For a detailed explanation on what the different headers do see [MDN on CORS](#)

Even if `allowOrigin` is defined as "*" (`allowOrigin: ['*']`) this middleware will always respond with an "Access-Control-Allow-Origin" header with the value of the "Origin" header.

Example

```
app.configure("cors");
app.cors({
  allowOrigin: ['http://example.com', 'https://example.com'],
  allowMethods: ['POST', 'GET'],
  allowHeaders: ['X-PingOther'],
  exposeHeaders: [],
  maxAge: 1728000,
  allowCredentials: true
})
```

Functions

`middleware` (next, app)

`middleware` (next, app)

Example

```
app.configure("cors");
app.cors({
  allowOrigin: ['http://example.com', 'https://example.com'],
  allowMethods: ['POST', 'GET'],
  allowHeaders: ['X-PingOther'],
  exposeHeaders: [],
  maxAge: 1728000,
  allowCredentials: true
})
```

Parameters

next
app

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Module `stick/middleware/csrf`

A middleware for CSRF mitigation, using either the synchronizer token or the double submission cookie pattern (see [OWASP CSRF Prevention Cheat Sheet](#) for a detailed explanation).

This middleware extends the request object by adding two methods:

- `getCsrfToken()` returns the CSRF token value for the current request, creating and storing it in the current session if necessary
- `rotateCsrfToken()` creates a new CSRF token and stores it in the current session

Use `getCsrfToken()` of the request object to add the token value as hidden input to all forms generated by the application, and make sure the name of the form input is configured accordingly (defaults to "csrftoken").

The token value returned by `getCsrfToken()` is additionally stored either in the current session (default) or in a cookie. The POST parameter and the token value stored are compared, and in case of a mismatch this middleware returns a 403 "Forbidden" response.

For non-POST requests this middleware accepts the token sent as query parameter or custom header field.

Configuration options:

`app.csrf()` accepts an object as parameter containing the following properties (default values in brackets):

- `tokenLength`: The length of the CSRF token (32)
- `checkReferrer`: Enable strict referrer checking for HTTPS requests (true)
- `rotate`: If true tokens are only used once and modified after each validation (false)
- `getToken`: By default the middleware expects the submitted CSRF token in either a post or query parameter `csrftoken` or in a custom request header `x-csrf-token` (in this order). To customize this define a function that will receive the request object as single argument and is expected to return the CSRF token (or null).

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- **getFailureResponse**: An optional function receiving the request as single argument. This method is called if the CSRF validation failed, and is expected to return a valid JSJI response (default: 403 forbidden).
- **safeMethods**: An array containing request method names that are considered safe, so no token validation is done (["GET", "HEAD", "OPTIONS", "TRACE"])

Cookie mode

The following options switch the middleware into "double submission cookie" mode, and allow detailed configuration of the cookie:

- **useCookie**: If true the CSRF token is stored in a cookie
- **cookieName**: The name of the cookie to set ("csrftoken")
- **cookieHttpOnly**: If true the **httpOnly** flag of the cookie is set (true)
- **cookieSecure**: If true the **secure** flag of the cookie is set (false)

Example

```
app.configure("csrf");
app.csrf({
  "tokenLength": 64,
  "rotate": true,
  "getToken": function(req) {
    return req.headers["x-custom-field"];
  }
});
```

Functions

middleware (next, app)

middleware (next, app)

Stick middleware factory for CSRF mitigation

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
----------	----------------------------

Module `stick/middleware/error`

Middleware to catch errors and generate simple error pages.

By default, resource `stick/middleware/error.html` is used as page template. This can be set through the `app.error.template` property. This is the complete list of properties that influence the behaviour of this middleware:

- **template** the error page template (*string*)
- **message** static error message to use instead of actual message (*string*)
- **location** whether to report any information about the code location of the error (*boolean*)
- **stack** whether to include a JavaScript stack trace (*boolean*)
- **javaStack** whether to include a Java stack trace (*boolean*)

Example

```
app.configure("error");
app.error.template = module.resolve("500.html");
app.error.location = true;
```

Functions

`middleware` (next, app)

`middleware` (next, app)

Stick middleware factory to display error messages and stack traces.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
----------	----------------------------

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Module stick/middleware/etag

Middleware for conditional HTTP GET request based on response body message digests.

The response body must implement a digest() method for this middleware to work.

Functions

[middleware](#) (next, app)

[middleware](#) (next, app)

Middleware for conditional HTTP GET request based on response body message digests.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSGL middleware function
----------	----------------------------

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Module stick/middleware/gzip

Middleware for on-the-fly GZip compression of response bodies.

By default only text content types are compressed. This can be controlled using the `gzip.contentTypes` property:

Example

```
app.configure("gzip");
app.gzip.contentTypes = /^text|xml|json|javascript/;
```

Functions

`middleware` (next, app)

`middleware` (next, app)

JSJI middleware for GZIP compression.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
----------	----------------------------

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Module `stick/middleware/method`

JSJI middleware for HTTP method override.

Since older browsers are not able to send XMLHttpRequest with methods other than `GET` and `POST`, this middleware allows the method of `POST` requests to be overridden based on the value of a HTTP form parameter. The default name for the override parameter is `__method`. This can be configured through the `method.key` property.

Example

```
app.configure("method");
app.method.key = "__method";
```

Functions

`middleware` (next, app)

`middleware` (next, app)

JSJI middleware for HTTP method override.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
----------	----------------------------

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Module `stick/middleware/mount`

This module provides middleware for mounting other applications on a specific URI path or virtual host.

Applying this middleware adds a `mount` method to the application. The `mount` method takes a path or virtual host specification and an application as arguments. If the spec is a string, it is interpreted as the URI path on which the app will be mounted. If it is an object, it may contain `path` or `host` properties that will be matched against the URI path and `Host` header of incoming requests. *Note that virtual host based mounting has not been tested so far.*

The `mount` method accepts an optional third boolean `noRedirect` argument. If set to `true` it will disable redirecting GET requests to the mount base URL without a trailing slash to the same URL with trailing slash. By default, `mount` middleware will send a redirect to the mount URL with trailing slash.

Mounting one application within another causes the `scriptName` and `pathInfo` properties in the request object to be adjusted so that the mounted application receives the same `pathInfo` as if it was the main application. This means that forward and reverse request routing will usually work as expected.

This middleware maintains an index mapping applications to mount points which can be accessed using the `lookup` function. The `stick/helpers` module provides higher level functions for this which include support for the `route` middleware.

Example

```
app.configure("mount");
app.mount("/wiki", module.resolve("vendor/ringowiki"));
```

Functions

`lookup` (target)

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`middleware` (next, app)

`lookup` (target)

Return the URI path of a mounted application

Parameters

target a mounted JSGI application

Returns

the URI path of the application, or ""

`middleware` (next, app)

Middleware to mount other application on specific URI paths or virtual hosts.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function a JSGI middleware function

Module `stick/middleware/notfound`

Middleware for simple Not-Found pages.

By default, resource `stick/middleware/notfound.html` is used as page template. This can be set through the `app.notfound.template` property.

- **template** the notfound page template (*string*)

Example

```
app.configure("notfound");
app.notfound.template = "templates/404.html";
```

Functions

`middleware` (next, app)

`middleware` (next, app)

Parameters

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app

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Module `stick/middleware/params`

This module provides middleware for parsing HTTP parameters from the query string and request body.

It does not parse multipart MIME data such as file uploads which are handled by the [upload](#) module.

Functions

[middleware](#) (next, app)

Properties

[request.params](#)

[request.postParams](#)

[request.queryParams](#)

[middleware](#) (next, app)

Middleware for parsing HTTP parameters. This module handles URL-encoded form data transmitted in the query string and request body as well as JSON encoded data in the request body.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
----------	----------------------------

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[request.params](#)

An object containing the parsed HTTP parameters sent with this request.

[request.postParams](#)

An object containing the parsed HTTP POST parameters sent with

this request. If the content type of the request is `application/json`, the middleware parses the body and stores the in `request.postParams`.

`request.queryParams`

An object containing the parsed HTTP query string parameters sent with this request.

Module `stick/middleware/profiler`

This module provides profiling middleware to measure the application's runtime behaviour.

Profiler data is written to the module's logger. You have to run the application in interpreted mode (passing `-o -1` on the command line) to get meaningful results.

Functions

`middleware` (next, app)

`middleware` (next, app)

A middleware factory that runs the nested app with a runtime profiler.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSGL middleware function
----------	----------------------------

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Module `stick/middleware/render`

This module provides middleware for rendering responses using `ringo/mustache`.

This middleware installs a `render` function in the application object which is used to render HTTP responses. The behaviour of `app.render` can be tweaked by setting the following properties:

- `render.base` – the base path or repository to look for templates
- `render.helpers` – helper functions that will be merged in the context
- `render.master` – master template which is applied on the top of processing the page with template given in the `.render` function.
- `render.contentType` – MIME type to use for HTTP response
- `render.charset` – charset name to use for HTTP response

Example

```
app.configure("render");
app.render.base = module.resolve("templates");
app.render("index.tmpl", {data: "Hello World!"});
```

Functions

`middleware` (next, app)

`middleware` (next, app)

Middleware for template based response generation.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
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Module `stick/middleware/requestlog`

Middleware for collecting log messages issued during execution of the current request.

This adds a `requestlog` property to the application object with an `items` property. During execution of a request `items` contains an array containing all the log messages issued for the request. Log messages are represented as arrays in the format `[time, level, name, message]`.

During request execution, the `requestlog` property also defines a property called `start` containing the time the execution started.

By default, messages are appended to the response if its Content-Type is `text/html`. This can be controlled using the `app.requestlog.append` boolean flag.

Functions

`middleware` (next, app)

`middleware` (next, app)

Middleware for collecting log messages issued during execution of the current request.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSJI middleware function
----------	----------------------------

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Module `stick/middleware/route`

Middleware for HTTP method based local request routing.

This installs `get`, `post`, `put`, `del` and `options` methods in the application object for routing requests with the corresponding HTTP methods. These methods take a path spec as first argument and a function as second argument.

Paths and Placeholders

The path spec can consist of static parts and placeholders. Named placeholders are prefixed by `:` (colon) and match all characters except for `/` (slash) and `.` (dot). A named placeholder can be marked as optional by appending `?` (question mark). Unnamed placeholders are denoted by the asterisk character `*` and match all characters including slashes and dots.

In the following example, `":id"` is a named placeholder:

```
"/post/:id"
```

All placeholders are passed to the action function as positional arguments following the request object in the order in which they appear in the path spec. Unmatched optional placeholders will be `undefined`.

```
app.get("/post/:id", function(req, id) {...});
```

Reverse Routing

The route middleware supports generating URLs from route names and parameters required by the route.

Routes names can either be defined explicitly by passing the route name as third argument, or are derived from the route's path spec by stripping out all placeholders and removing a leading slash. For example, a path spec `/post/:id.html` results in route name `"post.html"`. If a path spec does not contain any static part, its route name is `"index"`.

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Passing a valid route name and the parameters required by the route to the `route.reverse` method will return the URI path for the corresponding action. For example, with a route spec `/post/:id.html`, calling `app.route.reverse({action: "post.html", id: 5})` will return the string `"/post/5.html"`.

The `stick/helpers` module provides higher level helpers for reverse routing including support for mounted applications.

Example

```
app.configure("route")
app.get("/", function() {...})
app.get("/", function() {...}, "index")
app.post("/", function(req) {...})
app.get("/:id.:format?", function(req, id, format) {...})
app.del("/:id", function(req, id) {...})
app.put("/:id", function(req, id) {...})
```

Functions

`middleware` (next, app)

`middleware` (next, app)

Middleware for HTTP method based local request routing.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSGL middleware function
----------	----------------------------

Module `stick/middleware/session`

This module provides middleware for HTTP sessions.

It adds a `session` property to the request object that allows to store arbitrary data on a per-visitor basis.

The default session implementation is based on Java Servlet sessions. This can be overridden by setting the `app.session.impl` property to an alternative session constructor.

```
app.session.impl = MySession;
```

The session constructor will be called with the request object as only argument when the session is first accessed.

Functions

`middleware` (next, app)

Properties

`request.session`

Class `ServletSession`

Instance Methods

`invalidate ()`

Instance Properties

`creationTime`

`data`

`isNew`

`lastAccessedTime`

`maxInactiveInterval`

`volatile`

`ServletSession` (request)

An HTTP session object based on top of servlet sessions. Properties of the session's data object are persisted between requests of the

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same client.

Parameters

request a JSI or servlet request object

ServletSession.prototype.creationTime

Creation time of the current session.

ServletSession.prototype.data

A container for things to store in this session between requests.

ServletSession.prototype.invalidate ()

Destroys the current session and any data bound to it.

ServletSession.prototype.isNew

True if this session was created in the current request. This can be useful to find out if the client has cookies disabled for cookie-based sessions.

ServletSession.prototype.lastAccessedTime

Time in Unix epoch milliseconds since the last client access.

ServletSession.prototype.maxInactiveInterval

A time interval in seconds, which the session will be open. If the interval is exceeded, the session gets invalidated.

ServletSession.prototype.volatile

A volatile property which survives a HTTP redirect and can be used

for warnings or error messages in forms. After a requests was handled, the property is reset to null.

[middleware](#) (next, app)

This middleware provides support for anonymous user sessions.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSGI middleware function
----------	----------------------------

[request.session](#)

A session object for the current request. If no session exists a new one will be created.

See

[ServletSession](#)

Module `stick/middleware/static`

Middleware for serving static resources.

This installs a `static()` method in the application that accepts the following arguments:

- **base**: the base resource directory (required)
- **index**: the name of a file to serve if the path matches a directory (e.g. "index.html")
- **baseURI**: a common prefix for a resource URI (e.g. "/static")

You can call `static()` multiple times to register multiple resources to be served.

Functions

`middleware` (next, app)

`middleware` (next, app)

Middleware for serving static resources.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function	a JSGI middleware function
----------	----------------------------

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Module `stick/middleware/upload`

This module provides support for parsing multipart MIME messages used for file uploads.

This module behaves analogous and can be used in combination with the [params](#) middleware.

Example

```
var fileUpload = request.postParams['fooUpload'];
var name = fileUpload.filename;
// `filename` and `value` are user input and must be sanitized for security reasons
// Be strict about what you allow as `filename` (e.g.: only `A-Za-z\.\` or similar)
fs.write(join(fooPath, name), fileUpload.value);
```

Functions

[middleware](#) (next, app)

Properties

[request.postParams](#)

[middleware](#) (next, app)

Middleware factory to enable support for parsing file uploads.

Parameters

Function	next	the wrapped middleware chain
Object	app	the Stick Application object

Returns

Function a JSJI middleware function

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[request.postParams](#)

An object containing the parsed HTTP POST parameters sent with this request.

