
lawwenda - Plugin API Documentation

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Lawwenda has a plugin interface which allows to add functionality to the core from outside.

TODO not yet available

API REFERENCE

1.1 lawwenda package

1.1.1 Subpackages

lawwenda._aux package

Submodules

lawwenda._aux.projectinformations module

Module contents

lawwenda.preview package

Submodules

lawwenda.preview.commonimages module

```
class lawwenda.preview.commonimages.CommonImagesPreviewer
    Bases: lawwenda.preview.Previewer
    _abc_impl = <_abc_data object>
    is_previewable(iar)
    is_thumbnailable(iar)
    preview_html(node)
    thumbnail(node)
```

lawwenda.preview.commonvideos module

class lawwenda.preview.commonvideos.CommonVideosPreviewer

Bases: *lawwenda.preview.Previewer*

__ffmpeg_thumb (*inputpath*, *stdin=-3*)

Parameters

- **inputpath** (*str*) –
- **stdin** (*Any*) –

Return type bytes

_abc_impl = *<_abc_data object>*

is_previewable (*iar*)

is_thumbnailable (*iar*)

preview_html (*node*)

thumbnail (*node*)

Module contents

class lawwenda.preview.IsAbleRequest (*name: str, mimetype: str*)

Bases: object

Parameters

- **name** (*str*) –
- **mimetype** (*str*) –

Return type None

mimetype: str

name: str

class lawwenda.preview.Previewer

Bases: *abc.ABC*

_abc_impl = *<_abc_data object>*

_image_scale_to_thumbnail_size (*imgdata*)

Parameters *imgdata* (*BinaryIO*) –

Return type *_io.BytesIO*

abstract is_previewable (*iar*)

Parameters *iar* (*lawwenda.preview.IsAbleRequest*) –

Return type bool

abstract is_thumbnailable (*iar*)

Parameters *iar* (*lawwenda.preview.IsAbleRequest*) –

Return type bool

abstract preview_html (*node*)

Parameters `node` (`lawwenda.fs.Filesystem.Node`) –

Return type `str`

`thumbheight = 300`

`abstract thumbnail` (`node`)

Parameters `node` (`lawwenda.fs.Filesystem.Node`) –

Return type `bytes`

`thumbsize = (300, 300)`

`thumbwidth = 300`

lawwenda.search package

Module contents

class `lawwenda.search.ByGeoSearch` (`position`, `radius`)

Bases: `lawwenda.search.Search`

Parameters

- `position` (`str`) –
- `radius` (`str`) –

`__decide` (`node`)

Parameters `node` (`FilesystemNode`) –

Return type `bool`

`query` (`node`)

class `lawwenda.search.ByNameSearch` (`term`)

Bases: `lawwenda.search.Search`

Parameters `term` (`str`) –

`__decide` (`node`)

Parameters `node` (`FilesystemNode`) –

Return type `bool`

`query` (`node`)

class `lawwenda.search.ByTagSearch` (`term`)

Bases: `lawwenda.search.Search`

Parameters `term` (`str`) –

`__decide` (`node`)

Parameters `node` (`FilesystemNode`) –

Return type `bool`

`query` (`node`)

class `lawwenda.search.DeeplySearch` (`term`)

Bases: `lawwenda.search.Search`

Parameters `term` (`str`) –

__decide_unindexed (*node*)

Parameters **node** (*FileSystemNode*) –

Return type `bool`

__query_indexed (*node, idxdata*)

Parameters

- **node** (*FileSystemNode*) –
- **idxdata** (*object*) –

Return type `FileSystemNodes`

__query_unindexed (*node*)

Parameters **node** (*FileSystemNode*) –

Return type `FileSystemNodes`

__try_get_index (*node*)

Parameters **node** (*FileSystemNode*) –

Return type `object`

query (*node*)

class `lawwenda.search.Search`

Bases: `object`

query (*node*)

Parameters **node** (*FileSystemNode*) –

Return type `FileSystemNodes`

`lawwenda.search.__query_by_tree_traversal` (*node, decidefct*)

Parameters

- **node** (*FileSystemNode*) –
- **decidefct** (*Callable[[FileSystemNode], bool]*) –

Return type `FileSystemNodes`

`lawwenda.search.__termstring_to_termlist` (*term*)

Parameters **term** (*str*) –

Return type `List[str]`

`lawwenda.search.create_search` (*mode, **kwargs*)

Parameters **mode** (*str*) –

Return type `lawwenda.search.Search`

lawwenda.sharehttpapp package

Submodules

lawwenda.sharehttpapp.davprop module

```
class lawwenda.sharehttpapp.davprop.CommentDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp
    get_for_node (fsnode)

class lawwenda.sharehttpapp.davprop.DavProp (davname, *, is_writable)
    Bases: object

    Parameters
        • davname (str) –
        • is_writable (bool) –

    property davname
        Return type str
        Return type str
        Return type str
        Return type str

    get_for_node (fsnode)
        Parameters fsnode (lawwenda.fs.Filesystem.Node) –
        Return type Optional[str]

    property is_writable
        Return type bool
        Return type bool
        Return type bool
        Return type bool

class lawwenda.sharehttpapp.davprop.GeoDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp
    get_for_node (fsnode)

class lawwenda.sharehttpapp.davprop.MtimeDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp
    get_for_node (fsnode)

class lawwenda.sharehttpapp.davprop.RatingDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp
    get_for_node (fsnode)

class lawwenda.sharehttpapp.davprop.ResourceTypeDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp
    get_for_node (fsnode)
```

```
class lawwenda.sharehttpapp.davprop.SizeDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp

    get_for_node (fsnode)

class lawwenda.sharehttpapp.davprop.TagsDavProp
    Bases: lawwenda.sharehttpapp.davprop.DavProp

    get_for_node (fsnode)

lawwenda.sharehttpapp.davprop.get_prop_by_davname (davname)

    Parameters davname (str) –

    Return type Optional[lawwenda.sharehttpapp.davprop.DavProp]

lawwenda.sharehttpapp.davprop.register_prop (prop)

    Parameters prop (Type [DavProp]) –
```

Module contents

```
class lawwenda.sharehttpapp.JsonSerializedResponse (data, **kwargs)
    Bases: werkzeug.wrappers.response.Response

    Parameters data (Optional [Any]) –

class lawwenda.sharehttpapp.Request (environ, populate_request=True, shallow=False)
    Bases: werkzeug.wrappers.request.Request, werkzeug.wrappers.json.JSONMixin

class lawwenda.sharehttpapp.ShareHttpApp (filesystem)
    Bases: object

    Parameters filesystem (lawwenda.fs.Filesystem) –

    _method_copy (request, fsnode, *, xfermethod='copy_to')

        Parameters

        • request (lawwenda.sharehttpapp.Request) –

        • fsnode (lawwenda.fs.Filesystem.Node) –

        • xfermethod (str) –

    _method_delete (request, fsnode)

        Parameters

        • request (lawwenda.sharehttpapp.Request) –

        • fsnode (lawwenda.fs.Filesystem.Node) –

    _method_get (request, fsnode, is_head_request=False)

        Parameters

        • request (lawwenda.sharehttpapp.Request) –

        • fsnode (lawwenda.fs.Filesystem.Node) –

        • is_head_request (bool) –

    _method_head (request, fsnode)

        Parameters
```

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

_method_mkcol (*request, fsnode*)

Parameters

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

_method_move (*request, fsnode*)

Parameters

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

_method_options (*request, fsnode*)

Parameters

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

_method_propfind (*request, fsnode*)

Parameters

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

_method_proppatch (*request, fsnode*)

Parameters

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

_method_put (*request, fsnode*)

Parameters

- **request** (`lawwenda.sharehttpapp.Request`) –

- **fsnode** (`lawwenda.fs.Filesystem.Node`) –

property allowed_methods

Return type `t.List[str]`

Return type `t.List[str]`

Return type `t.List[str]`

Return type `t.List[str]`

1.1.2 Submodules

1.1.3 lawwenda.datafiles module

`lawwenda.datafiles.find_data_file` (*fname*, *searchdirs=None*)

Parameters

- **fname** (*str*) –
- **searchdirs** (*Optional[Iterable[str]]*) –

Return type `Optional[str]`

1.1.4 lawwenda.fmapp module

class `lawwenda.fmapp.FmApp` (*share*)

Bases: `object`

Parameters **share** (`lawwenda.Share`) –

__auth (*username*, *password*)

Parameters

- **username** (*str*) –
- **password** (*str*) –

Return type `bool`

__dispatch_request (*request*)

__ensure_authed (*request*)

__on_api_copymove (*request*, *action*)

__render_template (*template*, *, *html_head_inner=""*, *path=""*, *headonly=False*,
url_internals_name='~__lawwenda__int~', ***kwargs*)

Parameters

- **template** (*str*) –
- **html_head_inner** (*str*) –
- **path** (*str*) –
- **headonly** (*bool*) –
- **url_internals_name** (*str*) –

Return type `werkzeug.wrappers.response.Response`

__render_template_text (*template*, *, *csrftoken*, *html_head_inner*, ***kwargs*)

Parameters

- **template** (*str*) –
- **csrftoken** (*str*) –
- **html_head_inner** (*str*) –

Return type `str`

__render_template_text_raw (*template*, ***kwargs*)

```

    Parameters template (str) –
    Return type str
    _on_api_copy (request)
    _on_api_delete (request)
    _on_api_details (request)
    _on_api_dir (request)
    _on_api_known_tags (_)
    _on_api_mkdir (request)
    _on_api_move (request)
    _on_api_rename (request)
    _on_api_set_comment (request)
    _on_api_set_geo (request)
    _on_api_set_rating (request)
    _on_api_tag_entries (request)
    _on_api_thumbnail (request)
    _on_api_untag_entries (request)
    _on_api_upload (request)
    _on_api_zip (request)
    _on_api_zip_download (request, zipid)
    _on_help (_)
    _on_static (_, filepath)
    url_internals_name = '~__lawwenda__int~'

class lawwenda.fmapp.JsonSerializedResponse (data, **kwargs)
    Bases: werkzeug.wrappers.response.Response
    Parameters data (Optional[Any]) –

class lawwenda.fmapp.Request (environ, populate_request=True, shallow=False)
    Bases: werkzeug.wrappers.request.Request, werkzeug.wrappers.json.JSONMixin

class lawwenda.fmapp._RenderTemplateValue (s)
    Bases: object
    property unescape

class lawwenda.fmapp._TempZips
    Bases: object
    class _TempZip (nodes)
        Bases: object
        Parameters nodes (List[lawwenda.fs.Filesystem.Node]) –
        _TempZip__is_executable (node)
            Parameters node (lawwenda.fs.Filesystem.Node) –
            Return type bool
```

```
_TempZip__putnode (node, zipf)  
    Parameters  
        • node (lawwenda.fs.Filesystem.Node) –  
        • zipf (zipfile.ZipFile) –  
    Return type None  
  
    property bytes  
  
classmethod _TempZips__cleanup_loop ()  
  
_cleanup_thread = None  
  
_lock = <unlocked _thread.lock object>  
  
_zips = {}  
  
classmethod create_tempzip (owner, nodes)  
    Parameters  
        • owner (object) –  
        • nodes (List[lawwenda.fs.Filesystem.Node]) –  
    Return type str  
  
classmethod get_tempzip (owner, zipid)  
    Parameters  
        • owner (object) –  
        • zipid (str) –  
    Return type Optional[bytes]
```

1.1.5 lawwenda.fs module

```
class lawwenda.fs.AbstractFilesystemDecorator (inner)  
    Bases: lawwenda.fs.Filesystem  
    Parameters inner (lawwenda.fs.Filesystem) –  
    _eval_predicate (pred, node)  
  
exception lawwenda.fs.CircularTraversalError  
    Bases: OSError  
  
class lawwenda.fs.ExcludeNodesFilesystemAdapter (inner, pred)  
    Bases: lawwenda.fs.AbstractFilesystemDecorator  
    Parameters  
        • inner (lawwenda.fs.Filesystem) –  
        • pred (Callable[[Filesystem.Node], bool]) –  
    child_nodes (handle)  
        Parameters handle (lawwenda.fs.Filesystem.ReadHandle) –  
        Return type List[lawwenda.fs.Filesystem.Node]  
  
    get_readhandle (node)  
  
    get_writehandle (node)
```



```
class lawwenda.fs.Filesystem
    Bases: object

class Node (path, *, filesystem)
    Bases: object

        Parameters

            • path (str) –

            • filesystem (Filesystem) –

    property _filesystem
        Return type Filesystem
        Return type Filesystem
        Return type Filesystem
        Return type Filesystem

    add_tag (tag)
        Parameters tag (str) –
        Return type None

    property basics_as_dict

    child_by_name (name)
        Parameters name (str) –
        Return type lawwenda.fs.Filesystem.Node

    property child_nodes
        Return type t.List['Filesystem.Node']
        Return type t.List['Filesystem.Node']
        Return type t.List['Filesystem.Node']
        Return type t.List['Filesystem.Node']

    property comment
        Return type str
        Return type str
        Return type str
        Return type str

    copy_to (newpath)
        Parameters newpath (str) –
        Return type None

    delete ()
        Return type None

    property dirpath
        Return type str
        Return type str
        Return type str
        Return type str

    property exists
        Return type bool
        Return type bool
        Return type bool
        Return type bool

    property full_as_dict

    property geo
```

Return type str
Return type str
Return type str
Return type str

property geo_obj
Return type pimetadatainterpreter.GeoLocation
Return type pimetadatainterpreter.GeoLocation
Return type pimetadatainterpreter.GeoLocation
Return type pimetadatainterpreter.GeoLocation

property has_preview
Return type bool
Return type bool
Return type bool
Return type bool

property has_thumbnail
Return type bool
Return type bool
Return type bool
Return type bool

property icon_name
Return type t.Optional[str]
Return type t.Optional[str]
Return type t.Optional[str]
Return type t.Optional[str]

property is_dir
Return type bool
Return type bool
Return type bool
Return type bool

property is_file
Return type bool
Return type bool
Return type bool
Return type bool

property is_hidden
Return type bool
Return type bool
Return type bool
Return type bool

property is_link
Return type bool
Return type bool
Return type bool
Return type bool

property is_writable
Return type bool
Return type bool
Return type bool
Return type bool

property mimetype
Return type str
Return type str
Return type str
Return type str

mkdir()
Return type None

move_to(newpath)
Parameters **newpath** (*str*) –
Return type None

property mtime
Return type datetime.datetime
Return type datetime.datetime
Return type datetime.datetime
Return type datetime.datetime

property mtime_ts
Return type float
Return type float
Return type float
Return type float

property name
Return type str
Return type str
Return type str
Return type str

property parent_node
Return type *Filesystem.Node*
Return type *Filesystem.Node*
Return type *Filesystem.Node*
Return type *Filesystem.Node*

property path
Return type str
Return type str
Return type str
Return type str

property preview_html
Return type str
Return type str
Return type str
Return type str

property rating
Return type int
Return type int
Return type int
Return type int

read_file()
Return type BinaryIO

remove_tag(tag)

```
Parameters tag (str) -
Return type None

set_comment (comment)
Parameters comment (str) -
Return type None

set_geo (geo)
Parameters geo (str) -
Return type None

set_rating (rating)
Parameters rating (int) -
Return type None

property size
Return type int
Return type int
Return type int
Return type int

property tags
Return type t.List[str]
Return type t.List[str]
Return type t.List[str]
Return type t.List[str]

property tagstring
Return type str
Return type str
Return type str
Return type str

thumbnail ()
Return type bytes

traverse_dir (*, raise_on_circle, param_path="")
Parameters
    • raise_on_circle (bool) -
    • param_path (str) -
Return type Iterable[Tuple[lawwenda.fs.Filesystem.Node, str]]

try_get_fullpath (*, writable)
Parameters writable (bool) -
Return type Optional[str]

write_file (content)
Parameters content (Union[bytes, BinaryIO]) -
Return type None
```

```
class ReadHandle (node)
```

```
Bases: object
```

Read and write handles are just a stupid container that hold one *Filesystem.Node*.

This looks stupid at first, because you could just use this node directly instead. The added value of handles are a central mechanism for access control, which would be a bit less obvious and more scattered in code without this indirection.

Of course it cannot avoid a way around it in code. An attacker that can change the code has won anyway. It just simplifies writing correct code that hopefully does not provide ways around it for the client.

See `Filesystem.get_readhandle()` and `Filesystem.get_writehandle()`.

Parameters `node` (`Filesystem.Node`) –

class `WriteHandle` (`node`)

Bases: `lawwenda.fs.Filesystem.ReadHandle`

See `Filesystem.ReadHandle`.

Parameters `node` (`Filesystem.Node`) –

add_tag (`handle`, `tag`)

Parameters

- **handle** (`lawwenda.fs.Filesystem.WriteHandle`) –
- **tag** (`str`) –

Return type `None`

child_nodes (`handle`)

Parameters **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –

Return type `List[lawwenda.fs.Filesystem.Node]`

comment (`handle`)

Parameters **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –

Return type `str`

copy_to (`srchandle`, `desthandle`)

Parameters

- **srchandle** (`lawwenda.fs.Filesystem.ReadHandle`) –
- **desthandle** (`lawwenda.fs.Filesystem.WriteHandle`) –

Return type `None`

delete (`handle`)

Parameters **handle** (`lawwenda.fs.Filesystem.WriteHandle`) –

Return type `None`

exists (`handle`)

Parameters **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –

Return type `bool`

geo (`handle`)

Parameters **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –

Return type `lawwenda._aux.PiMetadataInterpreter.pimetadainterpreter.GeoLocation`

get_readhandle (`node`)

Parameters **node** (`lawwenda.fs.Filesystem.Node`) –

Return type `lawwenda.fs.Filesystem.ReadHandle`

get_writehandle (`node`)

Parameters **node** (`lawwenda.fs.Filesystem.Node`) –

Return type *lawwenda.fs.Filesystem.WriteHandle*

has_preview (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type bool

has_thumbnail (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type bool

is_dir (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type bool

is_file (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type bool

is_hidden (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type bool

is_link (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type bool

known_tags ()

Return type List[str]

mimetype (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type str

mkdir (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.WriteHandle*) –

Return type None

move_to (*srchandle*, *desthandle*)

Parameters

- **srchandle** (*lawwenda.fs.Filesystem.WriteHandle*) –
- **desthandle** (*lawwenda.fs.Filesystem.WriteHandle*) –

Return type None

mtime (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type datetime.datetime

node_by_path (*path*)

Parameters **path** (*str*) –

Return type *lawwenda.fs.Filesystem.Node*

preview_html (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type *str*

rating (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type *int*

read_file (*handle*)

Parameters **handle** (*lawwenda.fs.Filesystem.ReadHandle*) –

Return type *BinaryIO*

remove_tag (*handle, tag*)

Parameters

- **handle** (*lawwenda.fs.Filesystem.WriteHandle*) –
- **tag** (*str*) –

Return type *None*

property rootnode

Return type *Filesystem.Node*

Return type *Filesystem.Node*

Return type *Filesystem.Node*

Return type *Filesystem.Node*

static sanitize_abspath (*path*)

Sanitizes slashes in a path and returns a path in the form */foo/bar*. Precisely:

- with a slash in the beginning
- without a slash at the end
- without double slashes
- with *..* and *.* resolved
- root path: */*

Parameters **path** (*str*) – The input path.

Return type *str*

set_comment (*handle, comment*)

Parameters

- **handle** (*lawwenda.fs.Filesystem.WriteHandle*) –
- **comment** (*str*) –

Return type *None*

set_geo (*handle, geo*)

Parameters

- **handle** (`lawwenda.fs.Filesystem.WriteHandle`) –
- **geo** (`str`) –

Return type `None`**set_rating** (`handle`, `rating`)**Parameters**

- **handle** (`lawwenda.fs.Filesystem.WriteHandle`) –
- **rating** (`int`) –

Return type `None`**size** (`handle`)**Parameters** **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –**Return type** `int`**tags** (`handle`)**Parameters** **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –**Return type** `List[str]`**thumbnail** (`handle`)**Parameters** **handle** (`lawwenda.fs.Filesystem.ReadHandle`) –**Return type** `bytes`**try_get_fullpath** (`handle`, `*`, `writable`)**Parameters**

- **handle** (`Union[Filesystem.ReadHandle, Filesystem.WriteHandle]`) –
- **writable** (`bool`) –

Return type `Optional[str]`**write_file** (`handle`, `content`)**Parameters**

- **handle** (`lawwenda.fs.Filesystem.WriteHandle`) –
- **content** (`Union[bytes, BinaryIO]`) –

Return type `None`**class** `lawwenda.fs.HideNodesFilesystemAdapter` (`inner`, `pred`)Bases: `lawwenda.fs.AbstractFilesystemDecorator`**Parameters**

- **inner** (`lawwenda.fs.Filesystem`) –
- **pred** (`Callable[[Filesystem.Node], bool]`) –

is_hidden (`handle`)**class** `lawwenda.fs.LocalFilesystem` (`rootpath`)Bases: `lawwenda.fs.Filesystem`

Parameters `rootpath` (*str*) –
`__path_to_fullpath` (*path*)
Parameters `path` (*str*) –
Return type `str`

`add_tag` (*handle*, *tag*)
`child_nodes` (*handle*)
`comment` (*handle*)
`copy_to` (*srchandle*, *desthandle*)
`delete` (*handle*)
`exists` (*handle*)
`geo` (*handle*)
`get_readhandle` (*node*)
`get_writehandle` (*node*)
`has_preview` (*handle*)
`has_thumbnail` (*handle*)
`is_dir` (*handle*)
`is_file` (*handle*)
`is_hidden` (*handle*)
`is_link` (*handle*)
`known_tags` ()
`mimetype` (*handle*)
`mkdir` (*handle*)
`move_to` (*srchandle*, *desthandle*)
`mtime` (*handle*)
`preview_html` (*handle*)
`rating` (*handle*)
`read_file` (*handle*)
`remove_tag` (*handle*, *tag*)
`set_comment` (*handle*, *comment*)
`set_geo` (*handle*, *geo*)
`set_rating` (*handle*, *rating*)
`size` (*handle*)
`tags` (*handle*)
`thumbnail` (*handle*)
`try_get_fullpath` (*handle*, *, *writable*)
`write_file` (*handle*, *content*)

```
class lawwenda.fs.ReadOnlyFilesystemAdapter(inner)
    Bases: lawwenda.fs.AbstractFilesystemDecorator

    Parameters inner (lawwenda.fs.Filesystem) –
        get_writehandle (node)

class lawwenda.fs._PredicateFactory
    Bases: object

    static false (node)
    static p_descending (pred)
    static p_not (pred)
    static p_or (*preds)
    static p_regexp (restr)
    static p_tag (tag)

lawwenda.fs.create_filesystem(rootpath, *, readonly, hide_by_patterns=(), hide_by_tags=(),
                             include_by_patterns=None, include_by_tags=None,
                             exclude_by_patterns=(), exclude_by_tags=(), ex-
                             clude_hidden=False)
```

Parameters

- **rootpath** (*str*) –
- **readonly** (*bool*) –
- **hide_by_patterns** (*Iterable[str]*) –
- **hide_by_tags** (*Iterable[str]*) –
- **include_by_patterns** (*Optional[Iterable[str]]*) –
- **include_by_tags** (*Optional[Iterable[str]]*) –
- **exclude_by_patterns** (*Iterable[str]*) –
- **exclude_by_tags** (*Iterable[str]*) –
- **exclude_hidden** (*bool*) –

Return type *lawwenda.fs.Filesystem*

1.1.6 lawwenda.lawwenda_cli module

```
lawwenda.lawwenda_cli._fmt_cmd(s)
```

Parameters *s* (*str*) –

Return type *str*

```
lawwenda.lawwenda_cli._quickstart(cfgpath)
```

Parameters *cfgpath* (*str*) –

Return type *str*

```
lawwenda.lawwenda_cli.add_share(*, cfg, name, path, title, active_until, hide_by_pattern,
                                hide_by_tag, include_by_pattern, include_by_tag, ex-
                                clude_by_pattern, exclude_by_tag, exclude_hidden, readonly)
```

Parameters

- **cfg** (`lawwenda.Configuration`) –
- **name** (`str`) –
- **path** (`str`) –
- **title** (`str`) –
- **active_until** (`str`) –
- **hide_by_pattern** (`List[str]`) –
- **hide_by_tag** (`List[str]`) –
- **include_by_pattern** (`List[str]`) –
- **include_by_tag** (`List[str]`) –
- **exclude_by_pattern** (`List[str]`) –
- **exclude_by_tag** (`List[str]`) –
- **exclude_hidden** (`bool`) –
- **readonly** (`bool`) –

Return type None`lawwenda.lawwenda_cli.console(*, cfg)`**Parameters** **cfg** (`lawwenda.Configuration`) –**Return type** None`lawwenda.lawwenda_cli.describe_share(*, cfg, name)`**Parameters**

- **cfg** (`lawwenda.Configuration`) –
- **name** (`str`) –

Return type str`lawwenda.lawwenda_cli.generate_wsgi(*, cfg)`**Parameters** **cfg** (`lawwenda.Configuration`) –**Return type** str`lawwenda.lawwenda_cli.list_shares(*, cfg)`**Parameters** **cfg** (`lawwenda.Configuration`) –**Return type** str`lawwenda.lawwenda_cli.main()``lawwenda.lawwenda_cli.remove_share(*, cfg, name)`**Parameters**

- **cfg** (`lawwenda.Configuration`) –
- **name** (`str`) –

Return type None`lawwenda.lawwenda_cli.run_dev_server(*, cfg)`

Parameters `cfg` (`lawwenda.Configuration`) –

Return type `None`

1.1.7 lawwenda.server module

class `lawwenda.server.Server` (*, `cfgpath=None`)

Bases: `object`

Parameters `cfgpath` (`Optional[str]`) –

class `_ShareAppInst` (`share`)

Bases: `object`

Parameters `share` (`lawwenda.Share`) –

property `app`

Return type `lawwenda.fmapp.FmApp`

Return type `lawwenda.fmapp.FmApp`

Return type `lawwenda.fmapp.FmApp`

Return type `lawwenda.fmapp.FmApp`

property `is_active`

Return type `bool`

Return type `bool`

Return type `bool`

Return type `bool`

__get_app_for_share (`sharename`)

Parameters `sharename` (`str`) –

1.1.8 Module contents

class `lawwenda.Configuration` (`cfgpath=None`)

Bases: `object`

Parameters `cfgpath` (`Optional[str]`) –

__verify_valid_name ()

Parameters `name` (`str`) –

Return type `None`

add_share (`path`, *, `name`, `password`, `title=None`, `readonly=True`, `hide_by_patterns=()`, `hide_by_tags=()`, `include_by_patterns=None`, `include_by_tags=None`, `exclude_by_patterns=()`, `exclude_by_tags=()`, `exclude_hidden=False`, `active_until=None`)

Parameters

• **path** (`str`) –

• **name** (`str`) –

• **password** (`Optional[str]`) –

• **title** (`Optional[str]`) –

• **readonly** (`bool`) –

• **hide_by_patterns** (`Iterable[str]`) –

- **hide_by_tags** (*Iterable[str]*) –
- **include_by_patterns** (*Optional[Iterable[str]]*) –
- **include_by_tags** (*Optional[Iterable[str]]*) –
- **exclude_by_patterns** (*Iterable[str]*) –
- **exclude_by_tags** (*Iterable[str]*) –
- **exclude_hidden** (*bool*) –
- **active_until** (*Optional[datetime.datetime]*) –

Return type *lawwenda.Share*

generate_wsgi ()

Return type *str*

get_share_by_name (*name*)

Parameters **name** (*str*) –

Return type *Optional[lawwenda.Share]*

get_shares ()

Return type *List[lawwenda.Share]*

property path

Return type *str*

Return type *str*

Return type *str*

Return type *str*

peek_share_cache_tag (*name*)

Parameters **name** (*str*) –

Return type *Optional[object]*

remove_share (*name*)

Parameters **name** (*str*) –

Return type *None*

run_dev_server ()

Return type *None*

```
class lawwenda.Share (path, *, configuration, name, title, readonly=True, hide_by_patterns=(),
                    hide_by_tags=(), include_by_patterns=None, include_by_tags=None, ex-
                    clude_by_patterns=(), exclude_by_tags=(), exclude_hidden=False, pass-
                    word_script=None, password_salt=None, active_until_timestamp=None)
```

Bases: *object*

Parameters

- **path** (*str*) –
- **configuration** (*Configuration*) –
- **name** (*str*) –
- **title** (*str*) –

- **readonly** (*bool*) –
- **hide_by_patterns** (*Iterable[str]*) –
- **hide_by_tags** (*Iterable[str]*) –
- **include_by_patterns** (*Optional[Iterable[str]]*) –
- **include_by_tags** (*Optional[Iterable[str]]*) –
- **exclude_by_patterns** (*Iterable[str]*) –
- **exclude_by_tags** (*Iterable[str]*) –
- **exclude_hidden** (*bool*) –
- **password_script** (*Optional[str]*) –
- **password_salt** (*Optional[str]*) –
- **active_until_timestamp** (*Optional[float]*) –

_set_cache_tag (*t*)

Parameters **t** (*object*) –

Return type *None*

_to_dict ()

property active_until

Return type *t.Optional[datetime.datetime]*

Return type *t.Optional[datetime.datetime]*

Return type *t.Optional[datetime.datetime]*

Return type *t.Optional[datetime.datetime]*

property active_until_timestamp

Return type *t.Optional[float]*

Return type *t.Optional[float]*

Return type *t.Optional[float]*

Return type *t.Optional[float]*

property cache_tag

Return type *object*

Return type *object*

Return type *object*

Return type *object*

property configuration

Return type *Configuration*

Return type *Configuration*

Return type *Configuration*

Return type *Configuration*

property exclude_by_patterns

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property exclude_by_tags

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property exclude_hidden

Return type bool

Return type bool

Return type bool

Return type bool

property hide_by_patterns

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property hide_by_tags

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property include_by_patterns

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property include_by_tags

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

Return type t.Iterable[str]

property is_active

Return type bool

Return type bool

Return type bool

Return type bool

property name

Return type str

Return type str

Return type str

Return type str

property password_salt

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

property password_script

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

Return type t.Optional[str]

property path

Return type str

Return type str

Return type str

Return type str

property readonly

Return type bool

Return type bool

Return type bool

Return type bool

property title

Return type str

Return type str

Return type str

Return type str

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