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

CHAPTER

ONE

API REFERENCE

1.1 lawwenda package

1.1.1 Subpackages

lawwenda._aux package

Submodules

lawwenda._aux.projectinformations module

Module contents

lawwenda.previewer package

Submodules

lawwenda.previewer.commonimages module

class lawwenda.previewer.commonimages.**CommonImagesPreviewer**

Bases: *lawwenda.previewer.Previewer*

_abc_impl = <_abc_data object>

is_previewable(*iar*)

is_thumbnailable(*iar*)

preview_html(*node*)

thumbnail(*node*)

lawwenda.previewer.commonvideos module

class lawwenda.previewer.commonvideos.**CommonVideosPreviewer**
Bases: *lawwenda.previewer.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.previewer.**IsAbleRequest**(*name: str*, *mimetype: str*)
Bases: object

Parameters

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

Return type None

mimetype: str

name: str

class lawwenda.previewer.**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.previewer.IsAbleRequest) –

Return type bool

abstract is_thumbnailable(*iar*)

Parameters **iar** (lawwenda.previewer.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*, ***, *html_head_inner*, ***kwargs*)

Parameters

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

Return type str

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

Parameters **template** (*str*) –

Return type str

_on_api_add_tag_to_entries(*request*)

_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_remove_tag_from_entries(*request*)

_on_api_rename(*request*)

_on_api_set_comment(*request*)

_on_api_set_geo(*request*)

_on_api_set_rating(*request*)

_on_api_thumbnail(*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 unescaped

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.pimetadatainterpreter.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=()*, *exclude_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*, *exclude_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*, *exclude_by_patterns=()*, *exclude_by_tags=()*, *exclude_hidden=False*, *password_scrypt=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_scrypt** (*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_scrypt

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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