
lawwenda - Plugin API Documentation

Release 0.2.100

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Mar 20, 2021

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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.projectinformation 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 (*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`

__decide_unindexed_by_content (*node*)

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

Return type `bool`

__decide_unindexed_by_metadata (*node*)

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

Return type `bool`

__query_indexed (*idxdata*)

Parameters

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

Return type `FileSystemNodes`

__query_unindexed ()

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]) –
    Return type Type[lawwenda.sharehttpapp.davprop.DavProp]
```

Module contents

```
class lawwenda.sharehttpapp.ShareHttpApp (filesystem)
    Bases: object
    TODO.
    Parameters filesystem (lawwenda.fs.Filesystem) –
    property __allowed_methods
        Return type t.List[str]
        Return type t.List[str]
        Return type t.List[str]
        Return type t.List[str]
    _method_copy (request, fsnode, *, xfermethod='copy_to')
        Parameters
            • request (lawwenda.comm.Request) –
            • fsnode (lawwenda.fs.Filesystem.Node) –
            • xfermethod (str) –
    _method_delete (request, fsnode)
        Parameters
            • request (lawwenda.comm.Request) –
            • fsnode (lawwenda.fs.Filesystem.Node) –
    _method_get (request, fsnode, is_head_request=False)
        Parameters
            • request (lawwenda.comm.Request) –
            • fsnode (lawwenda.fs.Filesystem.Node) –
```

- **is_head_request** (*bool*) –

_method_head (*request*, *fsnode*)

Parameters

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

_method_mkcol (*request*, *fsnode*)

Parameters

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

_method_move (*request*, *fsnode*)

Parameters

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

_method_options (*request*, *fsnode*)

Parameters

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

_method_propfind (*request*, *fsnode*)

Parameters

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

_method_proppatch (*request*, *fsnode*)

Parameters

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

_method_put (*request*, *fsnode*)

Parameters

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

1.1.2 Submodules

1.1.3 lawwenda.comm module

class lawwenda.comm.**JsonedResponse** (*data, **kwargs*)

Bases: `werkzeug.wrappers.response.Response`

Parameters *data* (*Optional[Any]*) –

class lawwenda.comm.**Request** (*environ, populate_request=True, shallow=False*)

Bases: `werkzeug.wrappers.request.Request`, `werkzeug.wrappers.json.JSONMixin`

1.1.4 lawwenda.datafiles module

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

Parameters

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

Return type `Optional[str]`

1.1.5 lawwenda.devserver module

class lawwenda.devserver.**__DevServerInfo** (*svr, svrthread*)

Bases: `object`

shutdown ()

Return type `None`

property url

Return type `str`

Return type `str`

Return type `str`

Return type `str`

wait_stopped ()

Return type `None`

class lawwenda.devserver.**__DevServerThread** (*svr*)

Bases: `threading.Thread`

This constructor should always be called with keyword arguments. Arguments are:

group should be `None`; reserved for future extension when a `ThreadGroup` class is implemented.

target is the callable object to be invoked by the `run()` method. Defaults to `None`, meaning nothing is called.

name is the thread name. By default, a unique name is constructed of the form “Thread-N” where N is a small decimal number.

args is the argument tuple for the target invocation. Defaults to `()`.

kwargs is a dictionary of keyword arguments for the target invocation. Defaults to `{}`.

If a subclass overrides the constructor, it must make sure to invoke the base class constructor (`Thread.__init__()`) before doing anything else to the thread.

run()

Method representing the thread's activity.

You may override this method in a subclass. The standard `run()` method invokes the callable object passed to the object's constructor as the target argument, if any, with sequential and keyword arguments taken from the `args` and `kwargs` arguments, respectively.

`lawwenda.devserver.get_running_dev_servers()`

Return type `Iterable[lawwenda.devserver._DevServerInfo]`

`lawwenda.devserver.run_dev_server(cfg)`

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

Return type `lawwenda.devserver._DevServerInfo`

1.1.6 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*)

__dispatch_request_internals (*request*)

__dispatch_request_normal (*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, *, csrf_token, 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._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]

```

1.1.7 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 excludehidden (node)  
        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*

1.1.8 lawwenda.lawwenda_cli module

```
lawwenda.lawwenda_cli._fmt_cmd(txt)
```

Parameters *txt* (*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`

1.1.9 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`) –

1.1.10 Module contents

User side API for reading and modifying Lawwenda configurations, creating shares, and more.

For most cases, instantiate `Configuration` and use some of its methods.

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`, `ex-`
`clude_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 *lawwenda.devserver._DevServerInfo*

```
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*

A directory path together with some parameters (e.g. for access control) for sharing via Lawwenda. Read the documentation for more about shares.

This class is not intended to be instantiated directly. You will get instances by some other api methods.

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 (*cachetag*)**Parameters** **cachetag** (*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

The configuration that contains this share.

Return type *Configuration*

Return type *Configuration*

Return type *Configuration*

Return type *Configuration*

property exclude_by_patterns

A list of regular expressions of paths for excluding. A file or directory will be excluded if its path matches at least one of them. Those paths are always relative to *path*, always start with a '/', but never end with a one.

Exclusions are enforced on backend side and not just a presentation aspect. There is no way for a client to work around that (unless there is a software bug).

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

property exclude_by_tags

A list of tags for excluding files and directories.

Exclusions are enforced on backend side and not just a presentation aspect. There is no way for a client to work around that (unless there is a software bug).

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

property exclude_hidden

If to consider 'hidden' flags of files or directories as exclusions.

Exclusions are enforced on backend side and not just a presentation aspect. There is no way for a client to work around that (unless there is a software bug).

Return type *bool*

Return type *bool*

Return type *bool*

Return type *bool*

property hide_by_patterns

A list of regular expressions of paths for hiding. A file or directory will be hidden if its path matches at least one of them. Those paths are always relative to *path*, always start with a '/', but never end with a one.

Note that hiding is not a security feature unless *exclude_hidden* is set.

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

Return type *t.Iterable[str]*

Return type `t.Iterable[str]`

property `hide_by_tags`

A list of tags for hiding files and directories. A file or directory will be hidden if it is tagged with at least one of them.

Note that hiding is not a security feature unless `exclude_hidden` is set.

Return type `t.Iterable[str]`

Return type `t.Iterable[str]`

Return type `t.Iterable[str]`

Return type `t.Iterable[str]`

property `include_by_patterns`

A list of regular expressions of paths for including explicitly. Those paths are always relative to `path`, always start with a `'/'`, but never end with a one.

If this is specified, the share will switch from blacklist to whitelist. Everything that is not considered as included is implicitly considered as excluded.

Return type `t.Optional[t.Iterable[str]]`

Return type `t.Optional[t.Iterable[str]]`

Return type `t.Optional[t.Iterable[str]]`

Return type `t.Optional[t.Iterable[str]]`

property `include_by_tags`

A list of tags for including files and directories.

If this is specified, the share will switch from blacklist to whitelist. Everything that is not considered as included is implicitly considered as excluded.

Return type `t.Optional[t.Iterable[str]]`

Return type `t.Optional[t.Iterable[str]]`

Return type `t.Optional[t.Iterable[str]]`

Return type `t.Optional[t.Iterable[str]]`

property `is_active`

Return type `bool`

Return type `bool`

Return type `bool`

Return type `bool`

property `name`

The share name. This usually makes the last part of the url to this share. Is unique in the containing `configuration`.

Return type `str`

Return type `str`

Return type `str`

Return type `str`

property password_salt

The hash salt of the password for this share, if password protected. See also [password_script](#).

Return type `t.Optional[str]`

Return type `t.Optional[str]`

Return type `t.Optional[str]`

Return type `t.Optional[str]`

property password_script

The script hash of the password for this share. Empty or *None* for disabled password protection. See also [password_salt](#).

Return type `t.Optional[str]`

Return type `t.Optional[str]`

Return type `t.Optional[str]`

Return type `t.Optional[str]`

property path

The path of the share's root directory.

Return type `str`

Return type `str`

Return type `str`

Return type `str`

property readonly

If this share is restricted to only read actions (no removal, copying, uploading, editing, ... of the files and directories in [path](#)).

Return type `bool`

Return type `bool`

Return type `bool`

Return type `bool`

property title

The share title. This is an arbitrary text shown in the window title. Should not contain line breaks and should be short.

Return type `str`

Return type `str`

Return type `str`

Return type `str`

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