msaSDK Module

`.utils.fileupload`

Attributes

archive_pack_formats `module-attribute`

```
archive_pack_formats = shutil.get_archive_formats()
```

archive_unpack_formats `module-attribute`

```
archive_unpack_formats = shutil.get_unpack_formats()
```

Classes

FileDelete

File Delete Class

PARAMETER	DESCRIPTION
`uid`	str , the GUID of the file **TYPE:** `str`
`root_path`	str, dirname of the file **TYPE:** `str` **DEFAULT:** `os.path.join(os.path.dirname(__file__))`
`uploads_dir`	str, the folder the file was uploaded to. **TYPE:** `str` **DEFAULT:** `'data/uploads'`

Attributes

root_path `instance-attribute`

```
root_path = root_path
```

uid instance-attribute

```
uid = uid
```

uploads_dir instance-attribute

```
uploads_dir = uploads_dir
```

Functions

__init__

```
__init__(
    uid: str,
    root_path: str = os.path.join(
        os.path.dirname(__file__)
    ),
    uploads_dir: str = "data/uploads",
)
```

delete_files async

```
delete_files()
```

FileExtNotAllowed

Bases: `ServerHTTPException`

raise when the upload file ext not allowed

FileMaxSizeLimit

Bases: `ServerHTTPException`

raise when the upload file exceeds the max size

FileUpload

FileUpload Class

PARAMETER	DESCRIPTION
`filesize`	int, size in bytes **TYPE:** `int`
`root_path`	str = dirname of the file **TYPE:** `str` **DEFAULT:** `os.path.join(os.path.dirname(__file__))`
`uploads_dir`	str = "data/uploads", where to store the file **TYPE:** `str` **DEFAULT:** `'data/uploads'`
`not_allow_extensions`	Optional[List[str]] = None, exclude file extensions from upload ability **TYPE:** `Optional[List[str]]` **DEFAULT:** `None`
`max_size`	int = 150000000, max allowed filesize in bytes for upload **TYPE:** `int` **DEFAULT:** `150000000`
`createUIDSubFolders`	bool = False, if enabled the system creates Subfolders by the UID **TYPE:** `bool` **DEFAULT:** `False`

Attributes

content_type instance-attribute

```
content_type = ''
```

createSubFolders instance-attribute

```
createSubFolders = createUIDSubFolders
```

file_size instance-attribute

```
file_size = filesize
```

filename_generator instance-attribute

```
filename_generator = nameGen
```

fullpath instance-attribute

```
fullpath = ''
```

magic_desc instance-attribute

```
magic_desc = ''
```

magic_type instance-attribute

```
magic_type = ''
```

max_size instance-attribute

```
max_size = max_size
```

name instance-attribute

```
name = ''
```

not_allow_extensions instance-attribute

```
not_allow_extensions = not_allow_extensions
```

root_path instance-attribute

```
root_path = root_path
```

uid instance-attribute

```
uid = str(uuid4())
```

uploads_dir instance-attribute

```
uploads_dir = uploads_dir
```

Functions

__init__

```
__init__(
    filesize: int,
```

```
    root_path: str = os.path.join(
        os.path.dirname(__file__)
    ),
    uploads_dir: str = "data/uploads",
    not_allow_extensions: Optional[List[str]] = None,
    max_size: int = 150000000,
    createUIDSubFolders: bool = False,
)
```

save_file async

```
save_file(filename: str, ufile: UploadFile)
```

Save the file

PARAMETER	DESCRIPTION
`filename`	the name of the file it should be saved uner **TYPE:** `str`
`ufile`	UploadFile instance of the file to save **TYPE:** `UploadFile`

upload async

```
upload(file: UploadFile)
```

upload the file

PARAMETER	DESCRIPTION
`file`	The UploadFile instance of the file for upload. **TYPE:** `UploadFile`

InvalidResource

Bases: `ServerHTTPException`

raise when has invalid resource

NoSuchFieldFound

> Bases: `ServerHTTPException`
>
> raise when no such field for the given

ServerHTTPException

> Bases: `HTTPException`
>
> **Functions**
>
> **__init__**

```
__init__(error: str = None)
```

Functions

checkIfFileIsArchive async

```
checkIfFileIsArchive(file: UploadFile)
```

> Check if File is an Archive like zip or tar

createMSAFile async

```
createMSAFile(file: UploadFile, up: FileUpload) -> MSAFile
```

> Create an MSAFile Instance for the provided file

PARAMETER	DESCRIPTION
`file`	is the UploadFile **TYPE:** `UploadFile`
`up`	is the FileUpload Instance **TYPE:** `FileUpload`

RETURNS	DESCRIPTION
`mf`	New MSAFile instance. **TYPE:** `MSAFile`

createMSAFileFromUnpacked async

```
createMSAFileFromUnpacked(
    filepath: str, processuid: str
) -> MSAFile
```

Create an MSAFile Instance for a file from an archive, and keep them under one group by the processuid

PARAMETER	DESCRIPTION
`filepath`	str of the file path **TYPE:** `str`
`processuid`	str of the group process id (GUID) **TYPE:** `str`

RETURNS	DESCRIPTION
`mf`	New MSAFile instance. **TYPE:** `MSAFile`

nameGen

```
nameGen(uid, file)
```

secure_filename

```
secure_filename(filename: str) -> str
```

Pass it a filename and it will return a secure version of it. This filename can then safely be stored on a regular file system and passed to :func:`os.path.join`. The filename returned is an ASCII only string for maximum portability. On windows systems the function also makes sure that the file is not named after one of the special device files.

Example

```
secure_filename("My cool movie.mov")
'My_cool_movie.mov'
secure_filename("../../../etc/passwd")
'etc_passwd'
secure_filename('i contain cool \xfcml\xe4uts.txt')
'i_contain_cool_umlauts.txt'
```

The function might return an empty filename. It's your responsibility to ensure that the filename is unique and that you abort or generate a random filename if the function returned an empty one. .. versionadded:: 0.5

PARAMETER	DESCRIPTION
`filename`	the filename to secure **TYPE:** `str`

Last update: September 13, 2022

Created: September 13, 2022