msaSDK Module

.utils.fileupload

Attributes

```
__version__ (module-attribute)
```

```
__version__ = '0.1.1'
```

archive_pack_formats module-attribute

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

$archive_unpack_formats \ \ \, {}_{\texttt{module-attribute}}$

```
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))

PARAMETER	DESCRIPTION	
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	<pre>str = dirname of the file TYPE: str DEFAULT: os.path.join(os.path.dirname(file))</pre>
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

 $content_type {\tiny \texttt{instance-attribute}}$

```
content_type = ''
```

createSubFolders [instance-attribute]

```
createSubFolders = createUIDSubFolders
```

file_size instance-attribute

```
file_size = filesize
filename_generator instance-attribute
  filename_generator = nameGen
full path {\tiny \texttt{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 {\tiny \underbrace{ 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	

PARAMETER	DESCRIPTION
ир	is the FileUpload Instance TYPE: FileUpload

RETURNS	DESCRIPTION
mf	New MSAFile instance. TYPE: MSAFile

$createMSAFileFromUnpacked \ {\tt async}$

```
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.

```
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

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