

Directory Properties Information Check

Summary

It is to check the information on directory properties including the directory name, date of creation(final update date), owner account, read authorization, write authorization, access authorization and directory size.

This function is included in the Egovframework common component element technology.

Description

- ① Function to check the directory name
- ② Function to check the final update (modified) date of a directory
- ③ Function to check the owner account of a directory
- ④ Function to check the directory read authorization
- ⑤ Function to check the directory write authorization
- ⑥ Function to check the directory access authorization
- ⑦ Function to check the directory size

Related Sources

Type	Corresponding Sources	Description	Remarks
Service	egovframework.com.utl.service.EgovFileTool.java	An element technology class on the file management tool	
JSP	WEB_INF/jsp/egovframework/cmm/utl/EgovDrctryInfoCeck.jsp	A test page	

Method

Output	Method	Description	Details
String	getName(String targetDirPath)	Inquiring the directory name	It is to inquire the directory name. If successfully executed, it returns to the directory name, and if not, it returns to blank.
String	getLastModifiedDateFromFile(String targetDirPath)	Inquiring the directory update date	It is to inquire the final update date of a directory. If successfully executed, it returns to the 8- digit string, and if not, it returns to blank.
String	getOwner(String targetDirPath)	Inquiring the directory owner	It is to inquire the owner account name of a directory. If successfully executed, it returns to the owner account name, and if not, it returns to blank.
Boolean	canRead(String targetDirPath)	Inquiring the directory read authorization	It is to inquire the read authorization of a directory. If authorized to read, it returns to true, and if not, it returns to false.
Boolean	canWrite(String targetDirPath)	Inquiring the directory write authorization	It is to inquire the write authorization of a directory. If authorized to write, it returns to true, and if not, it returns to false.
String	getAccess(String targetDirPath)	Inquiring the directory access authorization	It is to inquire the access authorization of a directory. If successfully executed, it returns to the string on executing read/write of users, groups and other users, and if not, it returns to blank.
Long	getDirectorySize(String targetDirPath)	Inquiring the directory size	It is to inquire the directory size. It is to get the total size of directory files and lower directory files. It returns the size by byte unit.

Input

- targetDirPath: The directory path to be confirmed including a string- type absolute path (ex. /product/jeus/egovProps/tmp/dir1)

Output

- String Type : Properties information checked per item
- boolean Type : Whether authorized or not: true / false
- long Type : Size information (byte unit)

Environmental Settings

For 'getOwner' and 'getAccess' methods, the result of shell script execution is applied to check the information. The shell script information utilized during the call is registered in 'globals.properties'.

- globals.properties

1. Shell script applied to the 'getOwner' method

SHELL.UNIX.getDrctryOwner = /product/jeus/egovProps/prg/getDrctryOwner.sh

2. Shell script applied to the 'getAccess' method

SHELL.UNIX.getMoryInfo = /product/jeus/egovProps/prg/getDrctryAccess.sh

- getDrctryOwner.sh (Script to inquire the Unix directory owner)

```
ls -alF $1 | grep $2 | awk -F " " '{print $3}'
```

- getDrctryAccess.sh (Script to inquire the Unix directory access authorization)

```
ls -alF $1 | grep $2 | awk -F " " '{print $1}'
```

Manual

```
import egovframework.com.utl.sim.service.EgovFileTool;
```

```
String targetDirPath1    = "user/com/jeus";  
String directoryName1    = EgovFileTool.getName(targetDirPath1);  
String lastModifiedDate1 = EgovFileTool.getLastModifiedDateFromFile(targetDirPath1);  
String owner1            = EgovFileTool.getOwner(targetDirPath1);  
boolean canRead1         = EgovFileTool.canRead(targetDirPath1);  
boolean canWrite1        = EgovFileTool.canWrite(targetDirPath1);  
String roleStr           = EgovFileTool.getAccess(targetDirPath1);  
long dirSize1            = EgovFileTool.getDirectorySize(targetDirPath1);
```

References

N/A