Guideline: StorageBox Utility version 1.0

StorageBox Utility Class

[Provided with fincom.jar]

How To Use

Classpath

Get updated **fincom.jar** and **finpack.jar** in classpath.

Property File Update

Add below required properties:

[to use localdisk as storagebox - developer's machine]

```
sbgetagent=file:///opt/application_storage/storage_box/
sbputagent=file:///opt/application_storage/storage_box/
sbdeleteagent=file:///opt/application_storage/storage_box/
sbisexistagent=file:///opt/application_storage/storage_box/
```

Note

/opt/application storage/storage box/ path in above property interprets as local storagebox path

Create below directory if not exists. /opt/application storage/storage box/

[to use dev storagebox]

sbgetagent=http://192.168.3.80:8081 sbputagent=http://192.168.3.80:8081 sbdeleteagent=http://192.168.3.80:8081 sbisexistagent=http://192.168.3.80:8081

Note:

Confirm below property exists tempfiles_path=/opt/application_storage/temp_files/

Create below directory if not exists /opt/application storage/temp files/cache/

As shown below, **create** a **class** once for a project and use the same while require any operation with storagebox.

```
import com.finlogic.util.sbutility.PutFileBean;
import com.finlogic.util.sbutility.StorageBoxImpl;
import java.io.IOException;
import java.io.UnsupportedEncodingException;
public class SBCommonOperation extends StorageBoxImpl
  private static SBCommonOperation sbCommon = new sbCommonOperation();
  private SBCommonOperation()
    super(0); // Must- provide project id
  public static SBCommonOperation getSBCommonOperation()
    return sbCommon;
 @Override
  public String getFile(String sbFilePath) throws IllegalArgumentException,
UnsupportedEncodingException, IOException
    return super.getFile(sbFilePath);
  @Override
  public void putFile(PutFileBean putFileBean) throws Exception
     super.putFile(putFileBean);
  @Override
  public boolean deleteFile(String sbFilePath) throws Exception
    return super.deleteFile(sbFilePath);
 @Override
  public boolean isFileExist(String sbFilePath) throws Exception
       return super.isFileExist(sbFilePath);
```

- Get instance of SBCommonOperation class
 SBCommonOperation sbCommon = SBCommonOperation.getsbCommonOperation();
- Available methods-sbCommon.getFile(), sbCommon.putFile(), sbCommon.DeleteFile(), sbCommon.isFileExist()

Functionality

<u>Methods</u>

1. getFile

Input Parameter

Name	Datatype	Description	Example		
sbFilePath	String	provide relative path of storagebox file	sbFilePath="TRADING/ca pitalmarket/basket_order/ 0605/ORD060515182201 .xls"		

Output Parameter

Name	Datatype	Description	Example
localFilePath	String	returns absolute local file path that receiced from storagebox	/ opt/application_storage/te mp_files/cache/cache-22098894664517/ORD06 0515182201.xls

Sr No.	Exception	Description	Example
1.	IllegalArgument	provided null or empty input parameter- sbFilePath	sbFilePath= null sbFilePath=" "
2.	IllegalArgument	when requested file is not a file	sbFilePath="TRADING/ca pitalmarket/basket_order/ 0605/"
3.	FileNotFound	when requested storagebox file is not available on storagebox	-
4.	IOException	when requested empty file	TRADING/capitalmarket/b asket_order/ORD060515 182201.xls is empty file with size 0.
5.	IllegalState	storagebox is not available for get operation	when manually make storagebox unavailable for maintenance.

2. putFile

Input Parameter

Name	Datatype	Description	Example
putFileBean	PutFileBean	provide PutFileBean with mandatory values	-

PutFileBean

Name	Datatype	Description	Example
sourceFile	File	set file objecs of absolute local filepath need to be uploaded on storagebox	putFileBean.setSourceFil e(new File("/opt/apache- tomcat1/webapps/trading/ basket_order/0605/ORD0 60515182201.xls")
sbDestPath	String	set relative destination storagebox filepath to upload file at.	TRADING/capitalmarket/b asket_order/0605/123BQ 123.xls
removeFromSource	boolean	true – remove source file after successful fileupload at storagebox false – do not remove source file after successful fileupload at storagebox (Default: true)	true / false
overwrite	boolean	true – overwrite file on storagebox if exist false – do notoverwrite file on storagebox if exist (Default: true)	true / false

Output Parameter

Name	Datatype	Description	Example
-	-	-	-

Sr No.	Exception	Description	Example
1.	IllegalArgument	source file object is not provided while requesting file upload	-
2.	IllegalArgument	provided sourcefile object is not a file	putFileBean.setSourceFil e(new File("/opt/apache- tomcat1/webapps/trading/ basket_order/0605/")
3.	IllegalArgument	provided sourcefile object refers to empty file that requested to upload	-
4.	IllegalArgument	provided null or empty destination storagebox file path	putFileBean.setSbDestPa th(" ");
5.	IllegalArgument	provided destination filename that is not valid. Not valid if contains	when manually make storagebox unavailable for maintenance purpose
6.	IllegalArgument	provided sbDestPath is not a file	putFileBean.setSbDestPa th("TRADING/capitalmark

			et/basket_order/0605.201 5/");
7.	IllegalArgument	if root dir on storagebox not exist. for shown example, TRADING is not exist on Storagebox. if subfolders are not exist, It will be created.	putFileBean.setSbDestPa th("TRADING/capitalmark et/basket_order/0605.201 5/");
8.	IllegalArgument	if subfolders are not exist it will be created only if their name is valid. Dir name is not valid if it contains-	putFileBean.setSbDestPa th("TRADING/capitalmark et/XY Z/PQ\$12/123.xls");
9.	IllegalState	storagebox is not available for put operation	when manually make storagebox unavailable for maintenance purpose

3. deleteFile

Input Parameter

Name	Datatype	Description	Example
sbFilePath	String		sbFilePath="TRADING/ca pitalmarket/basket_order/ 0605/ORD060515182201 .xls"

Output Parameter

Name	Datatype	Description	Example
status	boolean	returns true / false true – if deleted false – if not deleted	true / false

Sr No.	Exception	Description	Example
1.	IllegalArgument	provided null or empty input parameter- sbFilePath	sbFilePath= null sbFilePath=" "
2.	IllegalArgument	requested to delete file on storagebox that is not exist.	-
3.	IllegalArgument	requested to delete file on storagebox- provided filepath that does not refers to a file.	sbFilePath="TRADING/ca pitalmarket/basket_order/ 0605/"
4.	IllegalState	storagebox is not available for deleteFile operation	when manually make storagebox unavailable for maintenance purpose

4. isFileExist

Input Parameter

Name	Datatype	Description	Example
sbFilePath	String		sbFilePath="TRADING/ca pitalmarket/basket_order/ 0605/ORD060515182201 .xls"

Output Parameter

Name	Datatype	Description	Example
status	boolean	Returns true / false true – if exist on storagebox false – if not exist on storagebox	true / false

Sr No.	Exception	Description	Example
1.	IllegalArgument	provided null or empty input parameter- sbFilePath	sbFilePath= null sbFilePath=" "
2.	IllegalArgument	requested to check availability of a filepath that does not refers to a file.	sbFilePath="TRADING/ca pitalmarket/basket_order/ 0605/"
3.	IllegalState	storagebox is not available for isFileExist operation	when manually make storagebox unavailable for maintenance purpose

Client Class

```
import com.finlogic.util.sbutility.PutFileBean;
import com.finlogic.util.sbutility.StorageBoxImpl;
import java.io.File;
public class Sbclient
  public static void main(String[] args)
       SBCommonOperation sbCommon = SBCommonOperation.getSBCommonOperation ();
    try
       //GETFILE
       String receivedPath =
       sbCommon.getFile("TRADING/capitalmarket/basket_order/0605/ORD060515182201.xls");
       System.out.println("getFile: Returned path- " + receivedPath);
       //PUTFILE
       File sourceFile = new File("/opt/apache-tomcat1/webapps/trading/basket/ORD060515182201.xls");
       String sbDestPath = "TRADING/capitalmarket/ORD060515182201.xls";
       PutFileBean putFileBean = new PutFileBean();
       putFileBean.setSourceFile(sourceFile);
       putFileBean.setSbDestPath(sbDestPath);
       putFileBean.setRemoveFromSource(true);
       putFileBean.setOverwrite(true);
       sbCommon.putFile(putFileBean);
       //IS FILE EXIST
       boolean status =
       sbCommon.isFileExist("TRADING/capitalmarket/basket_order/ORD060515182201.xls");
       System.out.println("status:::" + status);
       //DELETEFILE
       boolean status1 =
       sbCommon .deleteFile("TRADING/capitalmarket/basket order/ORD060515182201.xls");
       System.out.println("status:::" + status1);
    } catch (Exception e)
       e.printStackTrace();
  }
```