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Deprecated API

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Uses of Package gov.pnnl.emsl.PacificaLibrary

- Classes in gov.pnnl.emsl.PacificaLibrary used by gov.pnnl.emsl.PacificaLibrary

Class and Description

Connect
Main connect object that integrates all other classes to communicate with the MyEMSL server.

FileCollection
This class should maintain an object describing the metadata for the files and generate a tar file of that files including metadata.

FileMetaData
Metadata object for a single file.

GroupMetaData
Group metadata class contains the key value pairs that define metadata for MyEMSL.

LibraryConfiguration
LibraryConfiguration object to hold URLs from the main MyEMSL configuration file.

Metadata
This metadata class is responsible for creating the text of the metadata file from the hierarchy of classes.

MetadataContainer
Metadata class should contain the list of files and a version string.

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Class FileMetaData

- java.lang.Object
-   ♦ gov.pnnl.emsl.PacificaLibrary.FileMetaData

- ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━

```
public class FileMetaData
extends java.lang.Object
```

Metadata object for a single file. Should contain the sha1sum, file name, destination directory and metadata groups at a minimum.
Author:
    David ML Brown Jr.

- ◆ **Field Summary**

  Fields

Modifier and Type	Field and Description
java.lang.String	**destinationDirectory** destinationDirectory is the dirname of the file.
java.lang.String	**fileName** fileName is the string containing the basename of the file.
java.util.List<<u>GroupMetaData</u>>	**groups** groups are the metadata groups for the file.
java.lang.String	**localFilePath** localFilePath is the local path of the file on the file system.
java.lang.String	**sha1Hash** sha1Hash should contain the sha1sum for the file.

  ◆
  # Constructor Summary

  Constructors

Constructor and Description
FileMetaData(java.lang.String filename, java.lang.String localpath, java.lang.String hash) Constructor should store the parameters given into the object.

  ◆
  # Method Summary

  ◊
  ## Methods inherited from class java.lang.Object

  ```
  clone, equals, finalize, getClass, hashCode, notify,
  notifyAll, toString, wait, wait, wait
  ```

- ◆
  # Field Detail

  ◊ **sha1Hash**

  ```
  public java.lang.String sha1Hash
  ```

  sha1Hash should contain the sha1sum for the file.

◊ **fileName**

```
public java.lang.String fileName
```

fileName is the string containing the basename of the file.

◊ **destinationDirectory**

```
public java.lang.String destinationDirectory
```

destinationDirectory is the dirname of the file.

◊ **localFilePath**

```
public java.lang.String localFilePath
```

localFilePath is the local path of the file on the file system.

◊ **groups**

```
public java.util.List<GroupMetaData> groups
```

groups are the metadata groups for the file.

♦

Constructor Detail

◊ **FileMetaData**

```
public FileMetaData(java.lang.String filename,
            java.lang.String localpath,
            java.lang.String hash)
```

Constructor should store the parameters given into the object. The file name internally is split between a fileName and a destinationDirectory variable, one is the basename and the other is the dirname of the file name. The hashsum could be calculated later and doesn't have to be known on construction of this object.
Parameters:
    `filename` - String of the file name.
    `localpath` - String of the local path to the file.
    `hash` - String of the hash sum of the file.

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Class FileCollection

- java.lang.Object
- ♦ gov.pnnl.emsl.PacificaLibrary.FileCollection

```
public class FileCollection
extends java.lang.Object
```

This class should maintain an object describing the metadata for the files and generate a tar file of that files including metadata.

Author:

David ML Brown Jr.

- ♦ **Field Summary**

Fields

Modifier and Type	Field and Description
(package private) Metadata	**md**

♦

Constructor Summary

Constructors

Constructor and Description
FileCollection(Metadata md) Constructor sets the internal metadata from arguments passed.

♦

Method Summary

Methods

Modifier and Type	Method and Description
void	**tarit**(java.io.OutputStream out) Create a tar file from the metadata and stream it to an output object.

◊

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify,
notifyAll, toString, wait, wait, wait
```

- ♦

Field Detail

◊ **md**

```
Metadata md
```

♦

Constructor Detail

◊ **FileCollection**

```
public FileCollection(Metadata md)
```

Constructor sets the internal metadata from arguments passed.
Parameters:
    md - metadata object

♦ **Method Detail**

◊ **tarit**

```
public void tarit(java.io.OutputStream out)
          throws java.io.IOException,
                 java.io.FileNotFoundException,
                 java.security.NoSuchAlgorithmException
```

Create a tar file from the metadata and stream it to an output object. This is a bit more involved since we need to create sha1sums of the files as we stream the data to the output stream. Then finally send the json of the metadata to the tar and close it.

Parameters:

    `out -`

Throws:

    `java.io.IOException`

    `java.io.FileNotFoundException`

    `java.security.NoSuchAlgorithmException`

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Class Connect

- java.lang.Object
-         ◆ gov.pnnl.emsl.PacificaLibrary.Connect

- ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬

```
public class Connect
extends java.lang.Object
```

Main connect object that integrates all other classes to communicate with the MyEMSL server.
Author:
        David ML Brown Jr.

♦ **Field Summary**

Fields

Modifier and Type	Field and Description
(package private) org.apache.http.impl.client.DefaultHttpClient	**client**
(package private) LibraryConfiguration	**config**
(package private) org.apache.http.client.CookieStore	**cookieStore**
(package private) javax.xml.parsers.DocumentBuilder	**db**
(package private) org.apache.http.protocol.HttpContext	**localContext**
(package private) java.lang.String	**password**
(package private) java.lang.String	**server**
(package private) java.lang.String	**username**
(package private) javax.xml.xpath.XPath	**xPath**

♦

Constructor Summary

Constructors

Constructor and Description
Connect(LibraryConfiguration config, java.lang.String username, java.lang.String password) Sets up a connection to the MyEMSL server and creates an authenticated session with that server.

♦

Method Summary

Methods

Modifier and Type
java.lang.String
private java.util.ArrayList<java.net.URL>
private java.util.ArrayList<org.javatuples.Triplet<java.lang.Integer,java.la
void

- private void

  private java.lang.String

  private org.w3c.dom.NodeList

  private org.w3c.dom.NodeList

  private org.w3c.dom.NodeList

  void

  java.util.ArrayList<org.javatuples.Triplet<java.lang.Integer,java.la

  private java.lang.String

  private java.lang.String

  void

  java.lang.String

  ◊

  ## Methods inherited from class java.lang.Object

  ```
  clone, equals, finalize, getClass, hashCode, notify,
  notifyAll, toString, wait, wait, wait
  ```

- ♦

  ## Field Detail

  ◊ **config**

  [LibraryConfiguration](#) config
  ◊ **server**

  java.lang.String server
  ◊ **username**

  java.lang.String username
  ◊ **password**

  java.lang.String password
  ◊ **client**

  org.apache.http.impl.client.DefaultHttpClient client
  ◊ **localContext**

  org.apache.http.protocol.HttpContext localContext

◊ cookieStore

```
org.apache.http.client.CookieStore cookieStore
```
◊ db

```
javax.xml.parsers.DocumentBuilder db
```
◊ xPath

```
javax.xml.xpath.XPath xPath
```

♦
Constructor Detail

◊ Connect

```
public Connect(LibraryConfiguration config,
        java.lang.String username,
        java.lang.String password)
         throws java.security.GeneralSecurityException,
                java.net.URISyntaxException,
                java.io.IOException,
                javax.xml.parsers.ParserConfigurationException
```

Sets up a connection to the MyEMSL server and creates an authenticated session with that server. Using the config object given, the username and password creates an HTTPS connection to the MyEMSL server and creates a session with the server. This involves setting up an HTTPS socket with a custom trust manager. Also, cookies carry the authentication session so that should be stored and setup as well. Also, many of the responses to the HTTP requests return with XML documents so setting up an XML Document builder and XPATH object is required as well.

Parameters:

    `config` - LibraryConfiguration configuration to connect to what server.

    `username` - String containing the username.

    `password` - String containing the password.

Throws:

    `java.security.GeneralSecurityException`

    `java.net.URISyntaxException`

    `java.io.IOException`

    `javax.xml.parsers.ParserConfigurationException`

♦
Method Detail

◊ read_http_entity

```
private java.lang.String read_http_entity(org.apache.http.HttpEntity entity)
                                 throws java.io.IOException
```

Throws:

    `java.io.IOException`

Deprecated List

◊ **read_http_entity**

```
private java.lang.String read_http_entity(org.apache.http.HttpEntity entity,
                              java.io.BufferedWriter out)
                                throws java.io.IOException
```

Throws:
    java.io.IOException

◊ **get_myemsl_session**

```
public java.lang.String get_myemsl_session()
```

Returns the session string, this should be a long string of characters and is used for debugging whether the login worked.
Returns:
    String MyEMSL session key.

◊ **upload**

```
public java.lang.String upload(FileCollection fcol)
                        throws java.io.IOException,
                              java.security.NoSuchAlgorithmException
```

Upload the file collection to MyEMSL and don't wait. This is a multi step process by preallocating the data upstream first. Then pushing the actual data to a returned location from preallocation. Then calling the finish method and obtaining the status URL.
Parameters:
    fcol - FileCollection to upload to MyEMSL.
Returns:
    String of the status URL.
Throws:
    java.io.IOException
    java.security.NoSuchAlgorithmException

◊ **status_wait**

```
public void status_wait(java.lang.String status_url,
                java.lang.Integer timeout,
                java.lang.Integer step)
                  throws java.io.IOException,
                        org.xml.sax.SAXException,
                        javax.xml.xpath.XPathExpressionException,
                        java.lang.InterruptedException
```

This method should wait for the data to reach a particular point during the upload process. This involves polling the status URL. The status URL returns an XML document showing the progress through the ingest process. Look in the XML for the step that we pass in and make sure that the status attribute matches the string "SUCCESS". There should also be a timeout in seconds.
Parameters:
    status_url - String containing the status URL.
    timeout - Integer which represents the timeout in seconds.
    step - Integer representing what step we care to call success or failure.
Throws:

```
        java.io.IOException
        org.xml.sax.SAXException
        javax.xml.xpath.XPathExpressionException
        java.lang.InterruptedException
```

◊ **query**

```
public java.util.ArrayList<org.javatuples.Triplet<java.lang.Integer,java.lang
```

Query function should take a list of GroupMetaData and return a List of files that match those groups. This is a little more complex since the files really are the itemid, the name of the file and the auth token to get the file. That's why a list of triples are returned. TODO: update this method to use elastic search query engine.

Parameters:

       `groups` - Metadata groups to query the server.

Returns:

       list of triples of itemid, file name and authentication.

Throws:

```
        java.io.IOException
        org.xml.sax.SAXException
        javax.xml.xpath.XPathExpressionException
```

◊ **getrec**

```
private void getrec(java.util.ArrayList<org.javatuples.Triplet<java.lang.Inte
            java.net.URL url,
            java.lang.String args)
                throws java.io.IOException,
                        org.xml.sax.SAXException,
                        javax.xml.xpath.XPathExpressionException
```

Throws:

```
        java.io.IOException
        org.xml.sax.SAXException
        javax.xml.xpath.XPathExpressionException
```

◊ **getdirs**

```
private java.util.ArrayList<java.net.URL> getdirs(java.net.URL url,
                                    java.lang.String args)
                                        throws java.io.IOException,
                                                org.xml.sax.SAXException,
                                                javax.xml.xpath.XPathExpres
```

Throws:

```
        java.io.IOException
        org.xml.sax.SAXException
        javax.xml.xpath.XPathExpressionException
```

◊ **getfiles**

```
private java.util.ArrayList<org.javatuples.Triplet<java.lang.Integer,java.lan
```

Throws:
```
java.io.IOException
org.xml.sax.SAXException
javax.xml.xpath.XPathExpressionException
```

◊ **getxpath**

```
private org.w3c.dom.NodeList getxpath(java.net.URL url,
                            java.lang.String xpath)
                                throws java.io.IOException,
                                      org.xml.sax.SAXException,
                                      javax.xml.xpath.XPathExpressio
```

Throws:
```
java.io.IOException
org.xml.sax.SAXException
javax.xml.xpath.XPathExpressionException
```

◊ **getxpath**

```
private org.w3c.dom.NodeList getxpath(java.net.URL url,
                            java.lang.String xpath,
                            java.lang.String args)
                                throws java.io.IOException,
                                      org.xml.sax.SAXException,
                                      javax.xml.xpath.XPathExpressio
```

Throws:
```
java.io.IOException
org.xml.sax.SAXException
javax.xml.xpath.XPathExpressionException
```

◊ **getxml_from_url**

```
private java.lang.String getxml_from_url(java.net.URL url,
                            java.lang.String args)
                                throws java.io.IOException
```

Throws:
```
java.io.IOException
```

◊ **getxpath_from_xml**

```
private org.w3c.dom.NodeList getxpath_from_xml(java.lang.String xml,
                                    java.lang.String xpath)
                                        throws org.xml.sax.SAXException,
                                              javax.xml.xpath.XPathExpressio
                                              java.io.UnsupportedEncodingExc
                                              java.io.IOException
```

Throws:
```
org.xml.sax.SAXException
javax.xml.xpath.XPathExpressionException
java.io.UnsupportedEncodingException
java.io.IOException
```

Deprecated List

◊ **getitem**

```
public void getitem(java.io.BufferedWriter bwout,
          org.javatuples.Triplet<java.lang.Integer,java.lang.String,java.lan
        throws java.io.IOException,
               org.xml.sax.SAXException,
               javax.xml.xpath.XPathExpressionException
```

This method should pull a particular file from the server and download it to the buffered writer. This one is pretty easy just pull the itemurl and send the appropriate info to it and get the file.

Parameters:

bwout - output to write the file to.

item - triple of an itemid, file name and authentication.

Throws:

java.io.IOException

org.xml.sax.SAXException

javax.xml.xpath.XPathExpressionException

◊ **logout**

```
public void logout()
          throws java.io.IOException
```

Logout of the system. This should be used before the program exits.

Throws:

java.io.IOException

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Class Main

- java.lang.Object
-     ♦ gov.pnnl.emsl.PacificaLibrary.Main

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```
public class Main
extends java.lang.Object
```

This is the main class to have a main method. This should be command line driven main function and take arguments that span all aspects of the library. However, the main function is to either upload or download data.

Author:
        David ML Brown Jr.

- ⬧ **Constructor Summary**

  Constructors

Constructor and Description
Main()

♦

Method Summary

Methods

Modifier and Type	Method and Description
private static void	**doDownload**(Connect conn, org.apache.commons.cli.CommandLine line)
private static void	**doUpload**(Connect conn, org.apache.commons.cli.CommandLine line)
static void	**main**(java.lang.String[] args) Main method does mostly option parsing and setting up some initial variables to pass onto the upload or download methods.

◊

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify,
notifyAll, toString, wait, wait, wait
```

- ♦

Constructor Detail

◊ **Main**

```
public Main()
```

♦

Method Detail

◊ **main**

```
public static void main(java.lang.String[] args)
                 throws java.io.IOException,
                        java.security.GeneralSecurityException,
                        java.net.URISyntaxException,
                        javax.xml.parsers.ParserConfigurationException,
                        org.xml.sax.SAXException,
                        java.security.NoSuchAlgorithmException,
                        javax.xml.xpath.XPathExpressionException,
```

```
java.lang.InterruptedException
```

Main method does mostly option parsing and setting up some initial variables to pass onto the upload or download methods.

Parameters:

    `args` - Array of strings containing the command line arguments.

Throws:

    `java.io.IOException`
    `java.security.GeneralSecurityException`
    `java.net.URISyntaxException`
    `javax.xml.parsers.ParserConfigurationException`
    `org.xml.sax.SAXException`
    `java.security.NoSuchAlgorithmException`
    `javax.xml.xpath.XPathExpressionException`
    `java.lang.InterruptedException`

◊ doUpload

```
private static void doUpload(Connect conn,
             org.apache.commons.cli.CommandLine line)
                     throws java.io.IOException,
                            org.xml.sax.SAXException,
                            javax.xml.parsers.ParserConfigurationException,
                            org.xml.sax.SAXException,
                            java.security.NoSuchAlgorithmException,
                            javax.xml.xpath.XPathExpressionException,
                            java.lang.InterruptedException
```

Throws:

    `java.io.IOException`
    `org.xml.sax.SAXException`
    `javax.xml.parsers.ParserConfigurationException`
    `java.security.NoSuchAlgorithmException`
    `javax.xml.xpath.XPathExpressionException`
    `java.lang.InterruptedException`

◊ doDownload

```
private static void doDownload(Connect conn,
             org.apache.commons.cli.CommandLine line)
                     throws java.io.IOException,
                            org.xml.sax.SAXException,
                            javax.xml.xpath.XPathExpressionException
```

Throws:

    `java.io.IOException`
    `org.xml.sax.SAXException`
    `javax.xml.xpath.XPathExpressionException`

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Class NullOutputStream

- java.lang.Object
-     ◆ java.io.OutputStream
-     ◆   ◊ gov.pnnl.emsl.PacificaLibrary.NullOutputStream

- All Implemented Interfaces:
  java.io.Closeable, java.io.Flushable, java.lang.AutoCloseable

```
public class NullOutputStream
extends java.io.OutputStream
```

NullOutputStream is an OutputStream counter. Just use this to write what you want and get the length of what was written without creating copies.
Author:
    David ML Brown Jr.

- ⬧ **Field Summary**

  Fields

Modifier and Type	Field and Description
private long	**length**

♦
Constructor Summary

Constructors

Constructor and Description
NullOutputStream() Default constructor just set the length counter to 0

♦
Method Summary

Methods

Modifier and Type	Method and Description
long	**getLength**() Return the length of what was written.
void	**write**(byte[] b)
void	**write**(byte[] b, int off, int len)
void	**write**(int b)

◊
Methods inherited from class java.io.OutputStream

```
close, flush
```

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify,
notifyAll, toString, wait, wait, wait
```

- ♦
Field Detail

◊ **length**

```
private long length
```

⬧ Constructor Detail

◊ NullOutputStream

```
public NullOutputStream()
```

Default constructor just set the length counter to 0

♦

Method Detail

◊ write

```
public void write(int b)
          throws java.io.IOException
```

Specified by:
    write in class java.io.OutputStream
Throws:
    java.io.IOException

◊ write

```
public void write(byte[] b,
       int off,
       int len)
```

Overrides:
    write in class java.io.OutputStream

◊ write

```
public void write(byte[] b)
```

Overrides:
    write in class java.io.OutputStream

◊ getLength

```
public long getLength()
```

Return the length of what was written.
Returns:
    Integer length

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Hierarchy For Package gov.pnnl.emsl.PacificaLibrary

Class Hierarchy

- java.lang.Object
  - ♦ gov.pnnl.emsl.PacificaLibrary.[Connect](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[FileCollection](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[FileMetaData](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[GroupMetaData](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[LibraryConfiguration](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[Main](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[Metadata](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[MetadataContainer](#)
  - ♦ java.io.OutputStream (implements java.io.Closeable, java.io.Flushable)
    - ◊ gov.pnnl.emsl.PacificaLibrary.[NullOutputStream](#)

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Class MetadataContainer

- java.lang.Object
-     ♦ gov.pnnl.emsl.PacificaLibrary.MetadataContainer

- ━━━━━━━━━━━━━━━━━━━━━━━━━

```
public class MetadataContainer
extends java.lang.Object
```

Metadata class should contain the list of files and a version string. The version string represents the version of the structure in the metadata JSON file produced. This class is not to be confused with the Metadata object that converts this class and all members into a JSON document. Essentially, this is just a container class to make sure the JSON comes out right.

Author:
        David ML Brown Jr.

- ⬩ **Field Summary**

  Fields

Modifier and Type	Field and Description
java.util.List<<u>FileMetaData</u>>	**<u>file</u>** file is a list of files and the associated metadata for those files.
java.lang.String	**<u>version</u>** version is a specific string required by the upload API.

♦
Constructor Summary

Constructors

Constructor and Description
<u>MetadataContainer</u>() Constructor initializes internal file list.

♦
Method Summary

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify,
notifyAll, toString, wait, wait, wait
```

- ♦
Field Detail

◊ **file**

```
public java.util.List<FileMetaData> file
```

file is a list of files and the associated metadata for those files.

◊ **version**

```
public java.lang.String version
```

version is a specific string required by the upload API.

♦
Constructor Detail

◊ **MetadataContainer**

```
public MetadataContainer()
```

Constructor initializes internal file list.

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Uses of Class gov.pnnl.emsl.PacificaLibrary.FileMetaData

- ♦
  ## Uses of FileMetaData in gov.pnnl.emsl.PacificaLibrary

  Fields in gov.pnnl.emsl.PacificaLibrary with type parameters of type FileMetaData

Modifier and Type	Field and Description
java.util.List<FileMetaData>	MetadataContainer.**file** file is a list of files and the associated metadata for those files.

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Uses of Class gov.pnnl.emsl.PacificaLibrary.FileCollection

- ♦
   ## Uses of FileCollection in gov.pnnl.emsl.PacificaLibrary

   Methods in gov.pnnl.emsl.PacificaLibrary with parameters of type FileCollection

Modifier and Type	Method and Description
java.lang.String	Connect.**upload**(FileCollection fcol) Upload the file collection to MyEMSL and don't wait.

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Uses of Class gov.pnnl.emsl.PacificaLibrary.Connect

- ♦
  ### Uses of Connect in gov.pnnl.emsl.PacificaLibrary

  Methods in gov.pnnl.emsl.PacificaLibrary with parameters of type Connect

Modifier and Type	Method and Description
private static void	Main.**doDownload**(Connect conn, org.apache.commons.cli.CommandLine line)
private static void	Main.**doUpload**(Connect conn, org.apache.commons.cli.CommandLine line)

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Uses of Class
gov.pnnl.emsl.PacificaLibrary.Main

No usage of gov.pnnl.emsl.PacificaLibrary.Main

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Uses of Class gov.pnnl.emsl.PacificaLibrary.NullOutputStream

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Uses of Class gov.pnnl.emsl.PacificaLibrary.MetadataContainer

- ◆
  ### Uses of MetadataContainer in gov.pnnl.emsl.PacificaLibrary

  Fields in gov.pnnl.emsl.PacificaLibrary declared as MetadataContainer

Modifier and Type	Field and Description
MetadataContainer	Metadata.md This is the metadata that gets turned into JSON.

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Uses of Class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration

- ♦
  ### Uses of LibraryConfiguration in gov.pnnl.emsl.PacificaLibrary

  Fields in gov.pnnl.emsl.PacificaLibrary declared as LibraryConfiguration

Modifier and Type	Field and Description
(package private) LibraryConfiguration	Connect.**config**

  Constructors in gov.pnnl.emsl.PacificaLibrary with parameters of type LibraryConfiguration

Constructor and Description
Connect(LibraryConfiguration config, java.lang.String username, java.lang.String password) Sets up a connection to the MyEMSL server and creates an authenticated session with that server.

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Uses of Class gov.pnnl.emsl.PacificaLibrary.GroupMetaData

- ♦
    ### Uses of GroupMetaData in gov.pnnl.emsl.PacificaLibrary

    Fields in gov.pnnl.emsl.PacificaLibrary with type parameters of type GroupMetaData

Modifier and Type	Field and Description
`java.util.List<`GroupMetaData`>`	FileMetaData.**groups** groups are the metadata groups for the file.

    Method parameters in gov.pnnl.emsl.PacificaLibrary with type arguments of type GroupMetaData

Modifier and Type
`java.util.ArrayList<org.javatuples.Triplet<java.lang.Integer,java.la`

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Deprecated List

Deprecated List

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Uses of Class
gov.pnnl.emsl.PacificaLibrary.Metadata

- ♦
Uses of Metadata in gov.pnnl.emsl.PacificaLibrary

Fields in gov.pnnl.emsl.PacificaLibrary declared as Metadata

Modifier and Type	Field and Description
(package private) Metadata	FileCollection.**md**

Constructors in gov.pnnl.emsl.PacificaLibrary with parameters of type Metadata

Constructor and Description
FileCollection(Metadata md) Constructor sets the internal metadata from arguments passed.

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gov.pnnl.emsl.PacificaLibrary

Class LibraryConfiguration

- java.lang.Object
- ♦ gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration

- ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬

```
public class LibraryConfiguration
extends java.lang.Object
```

LibraryConfiguration object to hold URLs from the main MyEMSL configuration file. This class is responsible for parsing the general.ini file or a custom ini file and allowing programatic access to the data stored in the ini file.
Author:
        David ML Brown Jr.

Deprecated List

- **Field Summary**

Fields

Modifier and Type	Field and Description
(package private) org.ini4j.IniPreferences	**prefs**

- **Constructor Summary**

Constructors

Constructor and Description
LibraryConfiguration() Default constructor that reads from the standard general.ini file.
LibraryConfiguration(java.io.InputStream input) Create an ini prefs file from an input stream.
LibraryConfiguration(java.lang.String filename) Constructor to build the object with custom ini file.

- **Method Summary**

Methods

Modifier and Type	Method and Description
java.lang.String	**baseurl**() Return the base URL to the server, format proto://hostname
java.lang.String	**finishurl**() Return the finish URL of the upload API.
java.lang.String	**itemauthurl**() Return the item auth URL of the download API.
java.lang.String	**itemurl**() Return the item URL of the download API.
java.lang.String	**loginurl**() Return the login URL of the authentication API.
java.lang.String	**logouturl**() Return the logout URL of the authentication API.
java.lang.String	**preallocurl**() Return the prealloc URL of the upload API.
java.lang.String	**queryurl**() Return the query URL of the query API.
java.lang.String	**server**() Return the server hostname of the MyEMSL server.
java.lang.String	**services**()

- Return the path to the services XML service.

◊

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify,
notifyAll, toString, wait, wait, wait
```

- ♦

Field Detail

◊ prefs

```
org.ini4j.IniPreferences prefs
```

♦

Constructor Detail

◊ LibraryConfiguration

```
public LibraryConfiguration()
                     throws java.io.IOException
```

Default constructor that reads from the standard general.ini file.
Throws:
        java.io.IOException

◊ LibraryConfiguration

```
public LibraryConfiguration(java.lang.String filename)
                     throws java.io.IOException
```

Constructor to build the object with custom ini file.
Parameters:
        filename - config ini for class to use.
Throws:
        java.io.IOException

◊ LibraryConfiguration

```
public LibraryConfiguration(java.io.InputStream input)
                     throws java.lang.Exception
```

Create an ini prefs file from an input stream.
Parameters:
        input -
Throws:
        java.lang.Exception

♦

Method Detail

◊ **services**

```
public java.lang.String services()
```

Return the path to the services XML service.
Returns:
      String to the services XML service.

◊ **baseurl**

```
public java.lang.String baseurl()
```

Return the base URL to the server, format proto://hostname
Returns:
      String of the base URL.

◊ **finishurl**

```
public java.lang.String finishurl()
```

Return the finish URL of the upload API.
Returns:
      String of the finish URL.

◊ **preallocurl**

```
public java.lang.String preallocurl()
```

Return the prealloc URL of the upload API.
Returns:
      String of the prealloc URL.

◊ **logouturl**

```
public java.lang.String logouturl()
```

Return the logout URL of the authentication API.
Returns:
      String of the logout URL.

◊ **loginurl**

```
public java.lang.String loginurl()
```

Return the login URL of the authentication API.
Returns:
      String of the login URL.

◊ **itemurl**

```
public java.lang.String itemurl()
```

Return the item URL of the download API.
Returns:
      String of the item URL.

◊ **itemauthurl**

```
public java.lang.String itemauthurl()
```

Return the item auth URL of the download API.
Returns:
        String of the itemauth URL.

◊ **queryurl**

```
public java.lang.String queryurl()
```

Return the query URL of the query API.
Returns:
        String of the query URL.

◊ **server**

```
public java.lang.String server()
```

Return the server hostname of the MyEMSL server.
Returns:
        String of the server hostname.

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Classes

- Connect
- FileCollection
- FileMetaData
- GroupMetaData
- LibraryConfiguration
- Main
- Metadata
- MetadataContainer
- NullOutputStream

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Package gov.pnnl.emsl.PacificaLibrary

- Class Summary

Class	Description
[Connect](#)	Main connect object that integrates all other classes to communicate with the MyEMSL server.
[FileCollection](#)	This class should maintain an object describing the metadata for the files and generate a tar file of that files including metadata.
[FileMetaData](#)	Metadata object for a single file.
[GroupMetaData](#)	Group metadata class contains the key value pairs that define metadata for MyEMSL.
[LibraryConfiguration](#)	LibraryConfiguration object to hold URLs from the main MyEMSL configuration file.
[Main](#)	This is the main class to have a main method.
[Metadata](#)	This metadata class is responsible for creating the text of the metadata file from the hierarchy of classes.
[MetadataContainer](#)	Metadata class should contain the list of files and a version string.
[NullOutputStream](#)	NullOutputStream is an OutputStream counter.

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gov.pnnl.emsl.PacificaLibrary

Class GroupMetaData

- java.lang.Object
- ♦ gov.pnnl.emsl.PacificaLibrary.GroupMetaData

- ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━

```
public class GroupMetaData
extends java.lang.Object
```

Group metadata class contains the key value pairs that define metadata for MyEMSL.
Author:
        David ML Brown Jr.

- ♦ **Field Summary**

Fields

Modifier and Type	Field and Description
java.lang.String	**name** Name is the user defined value of the metadata pair.
java.lang.String	**type** type is the system defined set of keys for the metadata pair.

♦
Constructor Summary

Constructors

Constructor and Description
GroupMetaData(java.lang.String name, java.lang.String type) Constructor for group metadata object.

♦
Method Summary

◊
Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify,
notifyAll, toString, wait, wait, wait
```

- ♦
Field Detail

◊ **name**

```
public java.lang.String name
```

Name is the user defined value of the metadata pair.

◊ **type**

```
public java.lang.String type
```

type is the system defined set of keys for the metadata pair.

♦
Constructor Detail

◊ **GroupMetaData**

```
public GroupMetaData(java.lang.String name,
             java.lang.String type)
```

Constructor for group metadata object. The name, type thing is a bit weird and is synonymous with type = key and name = value. If you are thinking things are key value pairs, which it is.
Parameters:
      name -
      type -

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gov.pnnl.emsl.PacificaLibrary

Class Metadata

- java.lang.Object
-     ♦ gov.pnnl.emsl.PacificaLibrary.Metadata

- ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬

```
public class Metadata
extends java.lang.Object
```

This metadata class is responsible for creating the text of the metadata file from the hierarchy of classes.

Author:
    David ML Brown Jr.

- ◆ **Field Summary**

Fields

Modifier and Type	Field and Description
(package private) com.google.gson.Gson	**gson**
MetadataContainer	**md** This is the metadata that gets turned into JSON.

◆
Constructor Summary

Constructors

Constructor and Description
Metadata() Constructor creates the Gson object internally and sets a new md object too.

◆
Method Summary

Methods

Modifier and Type	Method and Description
java.lang.String	**tojson**() Creates the content of the JSON metadata file.

◊
Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- ◆
Field Detail

◊ **gson**

com.google.gson.Gson gson

◊ **md**

public MetadataContainer md

This is the metadata that gets turned into JSON.

♦ Constructor Detail

◊ Metadata

```
public Metadata()
```

Constructor creates the Gson object internally and sets a new md object too.

♦

Method Detail

◊ tojson

```
public java.lang.String tojson()
```

Creates the content of the JSON metadata file.
Returns:
      String of JSON of the metadata objects.

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How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

• Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. This page can contain six categories:

- ♦ Interfaces (italic)
- ♦ Classes
- ♦ Enums
- ♦ Exceptions
- ♦ Errors
- ♦ Annotation Types

• Class/Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- ♦ Class inheritance diagram
- ♦ Direct Subclasses
- ♦ All Known Subinterfaces
- ♦ All Known Implementing Classes
- ♦ Class/interface declaration
- ♦ Class/interface description
- ♦ Nested Class Summary
- ♦ Field Summary

- ♦ Constructor Summary
- ♦ Method Summary
- ♦ Field Detail
- ♦ Constructor Detail
- ♦ Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Annotation Type

Each annotation type has its own separate page with the following sections:

- ♦ Annotation Type declaration
- ♦ Annotation Type description
- ♦ Required Element Summary
- ♦ Optional Element Summary
- ♦ Element Detail

Enum

Each enum has its own separate page with the following sections:

- ♦ Enum declaration
- ♦ Enum description
- ♦ Enum Constant Summary
- ♦ Enum Constant Detail

Use

Each documented package, class and interface has its own Use page. This page describes what packages, classes, methods, constructors and fields use any part of the given class or package. Given a class or interface A, its Use page includes subclasses of A, fields declared as A, methods that return A, and methods and constructors with parameters of type A. You can access this page by first going to the package, class or interface, then clicking on the "Use" link in the navigation bar.

Tree (Class Hierarchy)

There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with `java.lang.Object`. The interfaces do not inherit from `java.lang.Object`.

- ♦ When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- ♦ When viewing a particular package, class or interface page, clicking "Tree" displays the hierarchy for only that package.

Deprecated API

The Deprecated API page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

- # Index

The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

- # Prev/Next

These links take you to the next or previous class, interface, package, or related page.

- # Frames/No Frames

These links show and hide the HTML frames. All pages are available with or without frames.

- # All Classes

The All Classes link shows all classes and interfaces except non-static nested types.

- # Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See also" section of the class description.

- # Constant Field Values

The Constant Field Values page lists the static final fields and their values.

This help file applies to API documentation generated using the standard doclet.

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R

<u>read_http_entity(HttpEntity)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>read_http_entity(HttpEntity, BufferedWriter)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

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S

[server](#) - Variable in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)

[server()](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[LibraryConfiguration](#)
> Return the server hostname of the MyEMSL server.

[services()](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[LibraryConfiguration](#)
> Return the path to the services XML service.

[sha1Hash](#) - Variable in class gov.pnnl.emsl.PacificaLibrary.[FileMetaData](#)
> sha1Hash should contain the sha1sum for the file.

[status_wait(String, Integer, Integer)](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)
> This method should wait for the data to reach a particular point during the upload process.

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G

<u>get_myemsl_session()</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>
>   Returns the session string, this should be a long string of characters and is used for debugging whether the login worked.

<u>getdirs(URL, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>getfiles(URL, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>getitem(BufferedWriter, Triplet<Integer, String, String>)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>
>   This method should pull a particular file from the server and download it to the buffered writer.

<u>getLength()</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>NullOutputStream</u>
>   Return the length of what was written.

<u>getrec(ArrayList<Triplet<Integer, String, String>>, URL, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>getxml_from_url(URL, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>getxpath(URL, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>getxpath(URL, String, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>getxpath_from_xml(String, String)</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>Connect</u>

<u>gov.pnnl.emsl.PacificaLibrary</u> - package gov.pnnl.emsl.PacificaLibrary

<u>GroupMetaData</u> - Class in <u>gov.pnnl.emsl.PacificaLibrary</u>
>   Group metadata class contains the key value pairs that define metadata for MyEMSL.

GroupMetaData(String, String) - Constructor for class gov.pnnl.emsl.PacificaLibrary.GroupMetaData
> Constructor for group metadata object.

groups - Variable in class gov.pnnl.emsl.PacificaLibrary.FileMetaData
> groups are the metadata groups for the file.

gson - Variable in class gov.pnnl.emsl.PacificaLibrary.Metadata

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P

password - Variable in class gov.pnnl.emsl.PacificaLibrary.Connect

preallocurl() - Method in class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
      Return the prealloc URL of the upload API.
prefs - Variable in class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration

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N

name - Variable in class gov.pnnl.emsl.PacificaLibrary.GroupMetaData
    Name is the user defined value of the metadata pair.
NullOutputStream - Class in gov.pnnl.emsl.PacificaLibrary
    NullOutputStream is an OutputStream counter.
NullOutputStream() - Constructor for class gov.pnnl.emsl.PacificaLibrary.NullOutputStream
    Default constructor just set the length counter to 0

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M

Main - Class in gov.pnnl.emsl.PacificaLibrary
>   This is the main class to have a main method.
Main() - Constructor for class gov.pnnl.emsl.PacificaLibrary.Main

main(String[]) - Static method in class gov.pnnl.emsl.PacificaLibrary.Main
>   Main method does mostly option parsing and setting up some initial variables to pass onto the upload
>   or download methods.
md - Variable in class gov.pnnl.emsl.PacificaLibrary.FileCollection

md - Variable in class gov.pnnl.emsl.PacificaLibrary.Metadata
>   This is the metadata that gets turned into JSON.
Metadata - Class in gov.pnnl.emsl.PacificaLibrary
>   This metadata class is responsible for creating the text of the metadata file from the hierarchy of
>   classes.
Metadata() - Constructor for class gov.pnnl.emsl.PacificaLibrary.Metadata
>   Constructor creates the Gson object internally and sets a new md object too.
MetadataContainer - Class in gov.pnnl.emsl.PacificaLibrary
>   Metadata class should contain the list of files and a version string.
MetadataContainer() - Constructor for class gov.pnnl.emsl.PacificaLibrary.MetadataContainer
>   Constructor initializes internal file list.

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T

tarit(OutputStream) - Method in class gov.pnnl.emsl.PacificaLibrary.FileCollection
    Create a tar file from the metadata and stream it to an output object.
tojson() - Method in class gov.pnnl.emsl.PacificaLibrary.Metadata
    Creates the content of the JSON metadata file.
type - Variable in class gov.pnnl.emsl.PacificaLibrary.GroupMetaData
    type is the system defined set of keys for the metadata pair.

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I

itemauthurl() - Method in class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
    Return the item auth URL of the download API.
itemurl() - Method in class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
    Return the item URL of the download API.

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U

[upload(FileCollection)](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)
      Upload the file collection to MyEMSL and don't wait.
[username](#) - Variable in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)

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D

db - Variable in class gov.pnnl.emsl.PacificaLibrary.Connect

destinationDirectory - Variable in class gov.pnnl.emsl.PacificaLibrary.FileMetaData
    destinationDirectory is the dirname of the file.
doDownload(Connect, CommandLine) - Static method in class gov.pnnl.emsl.PacificaLibrary.Main

doUpload(Connect, CommandLine) - Static method in class gov.pnnl.emsl.PacificaLibrary.Main

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V

[version](#) - Variable in class gov.pnnl.emsl.PacificaLibrary.[MetadataContainer](#)
version is a specific string required by the upload API.

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W

write(int) - Method in class gov.pnnl.emsl.PacificaLibrary.NullOutputStream

write(byte[], int, int) - Method in class gov.pnnl.emsl.PacificaLibrary.NullOutputStream

write(byte[]) - Method in class gov.pnnl.emsl.PacificaLibrary.NullOutputStream

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B

[baseurl()](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[LibraryConfiguration](#)
Return the base URL to the server, format proto://hostname

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F

<u>file</u> - Variable in class gov.pnnl.emsl.PacificaLibrary.<u>MetadataContainer</u>
      file is a list of files and the associated metadata for those files.
<u>FileCollection</u> - Class in <u>gov.pnnl.emsl.PacificaLibrary</u>
      This class should maintain an object describing the metadata for the files and generate a tar file of that
      files including metadata.
<u>FileCollection(Metadata)</u> - Constructor for class gov.pnnl.emsl.PacificaLibrary.<u>FileCollection</u>
      Constructor sets the internal metadata from arguments passed.
<u>FileMetaData</u> - Class in <u>gov.pnnl.emsl.PacificaLibrary</u>
      Metadata object for a single file.
<u>FileMetaData(String, String, String)</u> - Constructor for class gov.pnnl.emsl.PacificaLibrary.<u>FileMetaData</u>
      Constructor should store the parameters given into the object.
<u>fileName</u> - Variable in class gov.pnnl.emsl.PacificaLibrary.<u>FileMetaData</u>
      fileName is the string containing the basename of the file.
<u>finishurl()</u> - Method in class gov.pnnl.emsl.PacificaLibrary.<u>LibraryConfiguration</u>
      Return the finish URL of the upload API.

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Q

[query(List<GroupMetaData>)](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)
> Query function should take a list of GroupMetaData and return a List of files that match those groups.

[queryurl()](#) - Method in class gov.pnnl.emsl.PacificaLibrary.[LibraryConfiguration](#)
> Return the query URL of the query API.

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L

length - Variable in class gov.pnnl.emsl.PacificaLibrary.NullOutputStream

LibraryConfiguration - Class in gov.pnnl.emsl.PacificaLibrary
      LibraryConfiguration object to hold URLs from the main MyEMSL configuration file.
LibraryConfiguration() - Constructor for class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
      Default constructor that reads from the standard general.ini file.
LibraryConfiguration(String) - Constructor for class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
      Constructor to build the object with custom ini file.
LibraryConfiguration(InputStream) - Constructor for class
gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
      Create an ini prefs file from an input stream.
localContext - Variable in class gov.pnnl.emsl.PacificaLibrary.Connect

localFilePath - Variable in class gov.pnnl.emsl.PacificaLibrary.FileMetaData
      localFilePath is the local path of the file on the file system.
loginurl() - Method in class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
      Return the login URL of the authentication API.
logout() - Method in class gov.pnnl.emsl.PacificaLibrary.Connect
      Logout of the system.
logouturl() - Method in class gov.pnnl.emsl.PacificaLibrary.LibraryConfiguration
      Return the logout URL of the authentication API.

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C

client - Variable in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)

config - Variable in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)

[Connect](#) - Class in [gov.pnnl.emsl.PacificaLibrary](#)
Main connect object that integrates all other classes to communicate with the MyEMSL server.
[Connect(LibraryConfiguration, String, String)](#) - Constructor for class gov.pnnl.emsl.PacificaLibrary.[Connect](#)
Sets up a connection to the MyEMSL server and creates an authenticated session with that server.
[cookieStore](#) - Variable in class gov.pnnl.emsl.PacificaLibrary.[Connect](#)

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X

xPath - Variable in class gov.pnnl.emsl.PacificaLibrary.Connect

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Hierarchy For All Packages

Package Hierarchies:

- [gov.pnnl.emsl.PacificaLibrary](#)

Class Hierarchy

- java.lang.Object
  - ♦ gov.pnnl.emsl.PacificaLibrary.[Connect](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[FileCollection](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[FileMetaData](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[GroupMetaData](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[LibraryConfiguration](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[Main](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[Metadata](#)
  - ♦ gov.pnnl.emsl.PacificaLibrary.[MetadataContainer](#)
  - ♦ java.io.OutputStream (implements java.io.Closeable, java.io.Flushable)
    - ◊ gov.pnnl.emsl.PacificaLibrary.[NullOutputStream](#)

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