IslandoraFedoraAPI

1.0

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Todo List

Member AbstractFedoraDatastream (\$mime)

test if this covers all cases.

Member AbstractRepository (array \$search)

Flesh out the function definition for this.

Member CurlConnection (\$url, \$type= 'none', \$data=NULL, \$content_type=NULL)

Test this for posting general form data. (Other then files.)

Member FedoraApiM (\$params=array())

This function is a problem in Fedora < 3.5 where ownerld does not properly get set. https://jira.duraspace.org/browse/FCREPO-963. We should deal with this.

Member FedoraDatastream (\$function, \$value)

maybe add functionality to set it to auto

Member FedoraDatastream (\$function, \$value)

We should perhaps cache this? depending on size?

Class FedoraRelationships

potentially we should validate the predicate URI

Member FedoraRepository (\$id=NULL)

validate the ID

catch the getNextPid errors

Member FedoraRepository (\$id)

perhaps we should check if an object exists instead of catching the exception

Member FedoraRepository (NewFedoraObject &\$object)

error handling

Member FoxmlDocument ()

Implement fedora upload function to allow strings to be added as managed datastreams

2 Todo List

Member HttpConnection (\$url, \$type= 'none', \$data=NULL, \$content_type=NULL)

Test this for posting general form data. (Other then files.)

Member NewFedoraDatastream (\$id, \$control_group, AbstractFedoraObject \$object, FedoraRepository \$repository)

test for valid identifiers. it can't start with a number etc.

Member NewFedoraDatastream (\$function, \$value)

this should be refined a bit

Class SimpleCache

Replace this with something more interesting like memcached

Try some other intersting caching strategies like LRU.

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Class Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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FedoraApi	30
FedoraApiA	31
FedoraApiM	40
FedoraApiSerializer	53
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FedoraRelationships	70
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3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:	
AbstractCache	
Simple abstract Cache defintion providing basic key value caching functionality	9
AbstractDatastream	
This abstract class can be overriden by anything implementing a datastream	11
AbstractExistingFedoraDatastream	
This abstract class defines some shared functionality between all classes that implement exising fedora datastreams	13
AbstractFedoraDatastream	
Abstract base class implementing a datastream in Fedora	15
AbstractFedoraObject	
This is the base class for a Fedora Object	19
AbstractObject	
An abstract class defining a Object in the repository	21
AbstractRepository	0.4
An abstract repository interface	24
CurlConnection This class defines a shatrest Little Connection using the PLID of ID.	
This class defines a abstract HttpConnection using the PHP cURL library	26
FedoraApi	20
This is a simple class that brings FedoraApiM and FedoraApiA to-	
gether	30
FedoraApiA	
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This class implements the Fedora API-M interface	40
FedoraApiSerializer	
A class to Serialize the XML responses from Fedora into PHP arrays	53

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This class implements a fedora datastream	57
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This file represents a Fedora Date	66
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This abstract class allows us to implement PHP magic properties by	
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This represents a new fedora object that hasn't been ingested yet .	95
RepositoryBadArguementException	
This is thrown when a bad arguement is passed	98
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The general interface for a RepositoryConfig object	98
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Specific RepositoryConfig implementation that extends the Curl-	
Connection class so that we can do specific processing on Curl re-	
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RepositoryException	
The top level exception for the Islandora Fedora API	03
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RepositoryRelationshipsException	
This is thrown from the relationships class when something goes	
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RepositoryXmlError	
This is thrown when there is an error parsing XML	06
SimpleCache	
This is a simple cache that uses a static array to hold the cached	
·	107

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

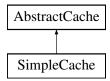
Cache.php	
Simple set of classes defining caches	9
Datastream.php	
This file defines all the classes used to manipulate datastreams in	
the repository	9
FedoraApi.php	
The RAW API wrappers for the Fedora interface	C
FedoraApiSerializer.php	
This file contains functions to serialize the XML responses from -	
Fedora into something more easily dealt with in PHP	C
FedoraRelationships.php	
This file defines the classes that are used for manipulaing the fedora	
relationships datastreams	1
HttpConnection.php	
This file defines the classes used to make HTTP requests	1
MagicProperty.php	
This file contains the class MagicProperty	2
Object.php	
This file contains all of the functionality for objects in the repository . 11	2
Repository.php	
This file defines an abstract repository that can be overridden and	
also defines a concrete implementation for Fedora	3
RepositoryConnection.php	
This file contains the implementation of a connection to Fedora 11	3
RepositoryException.php	
Contains all of the exceptions thrown by Tuque	3
RepositoryQuery.php	
This file provides some methods for doing RDF queries	4

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Class Documentation

5.1 AbstractCache Class Reference

Simple abstract Cache defintion providing basic key value caching functionality. Inheritance diagram for AbstractCache:



Public Member Functions

- add (\$key, \$data)
 - Add data to the cache.
- get (\$key)

Retrieve data from the cache.

- set (\$key, \$data)
 - Set data in the cache.
- delete (\$key)

Delete key from the cache.

5.1.1 Detailed Description

Simple abstract Cache defintion providing basic key value caching functionality.

5.1.2 Member Function Documentation

5.1.2.1 AbstractCache::add(\$key,\$data) [abstract]

Add data to the cache.

Parameters

string	\$key	The key to add to the cache.
mixed	\$data	The data to store with the key.

Returns

boolean TRUE if the data was added to the cache. FALSE if \$key already exists in the cache or if there was an error.

Reimplemented in SimpleCache.

5.1.2.2 AbstractCache::delete(\$ key) [abstract]

Delete key from the cache.

Parameters

string	\$key	The key to delete.
--------	-------	--------------------

Returns

boolean TRUE if they key existed and was deleted. FALSE otherwise.

Reimplemented in SimpleCache.

5.1.2.3 AbstractCache::get(\$key) [abstract]

Retrieve data from the cache.

Parameters

string	\$key	They key to retrieve from the cache.
--------	-------	--------------------------------------

Returns

mixed FALSE if the data wasn't found in the cache. Otherwise it returns the data assoctiated with the key.

Reimplemented in SimpleCache.

5.1.2.4 AbstractCache::set(\$ key, \$ data) [abstract]

Set data in the cache.

This will create new keys if they don't already exist, or update existing keys.

Parameters

string	\$key	The key to add/update.
mixed	\$data	The data to store with the key.

Returns

boolean TRUE on success. FALSE on failure.

Reimplemented in SimpleCache.

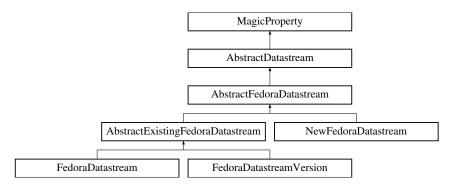
The documentation for this class was generated from the following file:

· Cache.php

5.2 AbstractDatastream Class Reference

This abstract class can be overriden by anything implementing a datastream.

Inheritance diagram for AbstractDatastream:



Public Member Functions

• delete ()

This will set the state of the datastream to deleted.

setContentFromFile (\$file)

Set the contents of the datastream from a file.

setContentFromUrl (\$url)

Set the contents of the datastream from a URL.

setContentFromString (\$string)

Set the contents of the datastream from a string.

Public Attributes

- \$id
- · \$label
- \$controlGroup
- · \$versionable
- · \$state
- \$mimetype
- \$format
- \$size
- \$checksum
- \$checksumType
- \$createdDate
- \$content
- \$url

5.2.1 Detailed Description

This abstract class can be overriden by anything implementing a datastream.

5.2.2 Member Function Documentation

5.2.2.1 AbstractDatastream::setContentFromFile(\$ file) [abstract]

Set the contents of the datastream from a file.

Parameters

string	\$file	The full path of the file to set to the contents of the datas-
		tream.

Reimplemented in FedoraDatastream, FedoraDatastreamVersion, and NewFedora-Datastream.

5.2.2.2 AbstractDatastream::setContentFromString(\$string) [abstract]

Set the contents of the datastream from a string.

Parameters

string	\$string	The string whose contents will become the contents of the
		datastream.

Reimplemented in FedoraDatastream, FedoraDatastreamVersion, and NewFedora-Datastream.

5.2.2.3 AbstractDatastream::setContentFromUrl(\$url) [abstract]

Set the contents of the datastream from a URL.

The contents of this URL will be fetched, and the datastream will be updated to contain the contents of the URL.

Parameters

string	\$url	The full URL to fetch.

Reimplemented in FedoraDatastream, FedoraDatastreamVersion, and NewFedora-Datastream.

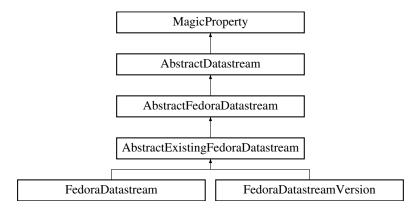
The documentation for this class was generated from the following file:

· Datastream.php

5.3 AbstractExistingFedoraDatastream Class Reference

This abstract class defines some shared functionality between all classes that implement exising fedora datastreams.

Inheritance diagram for AbstractExistingFedoraDatastream:



Public Member Functions

__construct (\$id, FedoraObject \$object, FedoraRepository \$repository)
 Class constructor.

Protected Member Functions

getDatastreamContent (\$version=NULL)
 Wrapper for the APIA getDatastreamDissemination function.

getDatastreamHistory ()

Wrapper around the APIM getDatastreamHistory function.

• modifyDatastream (array \$args)

Wrapper around the APIM modifyDatastream function.

purgeDatastream (\$version)

Wrapper around the APIM Purge function.

5.3.1 Detailed Description

This abstract class defines some shared functionality between all classes that implement exising fedora datastreams.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 AbstractExistingFedoraDatastream::__construct(\$id\$, FedoraObject\$object\$ object, FedoraRepository\$repository)

Class constructor.

Parameters

string	\$id	Unique identifier for the DS.
Fedora-	\$object	The FedoraObject that this DS belongs to.
Object		
Fedora-	\$repository	The FedoraRepository that this DS belongs to.
Repositor	y	

5.3.3 Member Function Documentation

Wrapper for the APIA getDatastreamDissemination function.

Parameters

string	\$version	The version fo the content to retreve.
--------	-----------	--

Returns

string String containing the content.

Reimplemented in FedoraDatastream.

5.3.3.2 AbstractExistingFedoraDatastream::getDatastreamHistory() [protected]

Wrapper around the APIM getDatastreamHistory function.

Returns

array Array containing datastream history.

5.3.3.3 AbstractExistingFedoraDatastream::modifyDatastream(array\$ args) [protected]

Wrapper around the APIM modifyDatastream function.

Parameters

-			
	array	\$args	Args to pass to the function.

Returns

array Datastream history array.

Reimplemented in FedoraDatastream.

5.3.3.4 AbstractExistingFedoraDatastream::purgeDatastream(\$version) [protected]

Wrapper around the APIM Purge function.

Parameters

string	\$version	The version to purge.

Returns

array The versions purged.

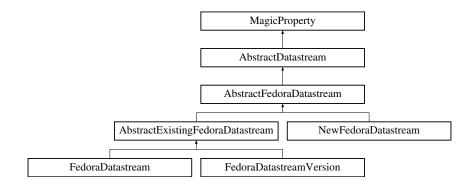
The documentation for this class was generated from the following file:

· Datastream.php

5.4 AbstractFedoraDatastream Class Reference

Abstract base class implementing a datastream in Fedora.

Inheritance diagram for AbstractFedoraDatastream:



Public Member Functions

- __construct (\$id, AbstractFedoraObject \$object, FedoraRepository \$repository)

 The constructor for the datastream.
- delete ()

Public Attributes

- · \$repository
- \$parent
- \$relationships

Protected Member Functions

- idMagicProperty (\$function, \$value)
- isDatastreamProperySet (\$actual, \$unsetval)

This is a replacement for isset when things can't be unset.

• validateMimetype (\$mime)

Validates a mimetype using a regular expression.

• validateState (\$state)

Validates and normalizes the datastream state.

• validateVersionable (\$versionable)

Validates the versionable setting of a datastream.

validateChecksumType (\$type)

Validates and normalizes the checksumType arguement.

• controlGroupMagicProperty (\$function, \$value)

Protected Attributes

- \$datastreamId = NULL
- \$datastreamInfo = NULL

5.4.1 Detailed Description

Abstract base class implementing a datastream in Fedora.

5.4.2 Constructor & Destructor Documentation

5.4.2.1 AbstractFedoraDatastream::__construct(\$id, AbstractFedoraObject\$
object, FedoraRepository\$repository)

The constructor for the datastream.

Parameters

string	\$id	The identifier of the datastream.
--------	------	-----------------------------------

5.4.3 Member Function Documentation

5.4.3.1 AbstractFedoraDatastream::controlGroupMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::controlGroup

 $Reimplemented \ in \ Fedora Datastream, \ and \ New Fedora Datastream.$

5.4.3.2 AbstractFedoraDatastream::delete()

See also

AbstractDatastream::delete()

Reimplemented from AbstractDatastream.

See also

AbstractDatastream::id

5.4.3.4 AbstractFedoraDatastream::isDatastreamProperySet(\$ actual, \$ unsetval) [protected]

This is a replacement for isset when things can't be unset.

So we define a default value, then return TRUE or FALSE based on if it is set.

Parameters

anything	\$actual	The value we are testing.
anything	\$unsetval	The value it would be if it was unset.

Returns

boolean TRUE or FALSE

5.4.3.5 AbstractFedoraDatastream::validateChecksumType (\$ type) [protected]

Validates and normalizes the checksumType arguement.

Parameters

string	\$type	The input string

Returns

mixed FALSE if validation fails. The checksumType string otherwise.

5.4.3.6 AbstractFedoraDatastream::validateMimetype(\$ mime) [protected]

Validates a mimetype using a regular expression.

Parameters

string	\$mime	A string representing a mimetype

Returns

boolean TRUE if the string looks like a mimetype.

Todo test if this covers all cases.

5.4.3.7 AbstractFedoraDatastream::validateState(\$ state) [protected]

Validates and normalizes the datastream state.

Parameters

ı				
I	string	\$state	The input state	

Returns

string Returns FALSE if validation fails, otherwise it returns the normalized datastream state.

5.4.3.8 AbstractFedoraDatastream::validateVersionable (\$ versionable) [protected]

 $\label{lem:validates} \mbox{ Validates the versionable setting of a datastream.}$

Parameters

mixed	\$versionable	The input versionable arguement.
-------	---------------	----------------------------------

Returns

boolean Returns TRUE if the arguement is a boolean, FALSE otherwise.

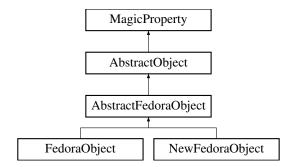
The documentation for this class was generated from the following file:

· Datastream.php

5.5 AbstractFedoraObject Class Reference

This is the base class for a Fedora Object.

Inheritance diagram for AbstractFedoraObject:



Public Member Functions

- __construct (\$id, FedoraRepository \$repository)
 Constructosaurus.
- delete ()
- constructDatastream (\$id, \$control_group= 'M')

Public Attributes

- \$relationships
- · \$repository

Protected Member Functions

- idMagicProperty (\$function, \$value)
- stateMagicProperty (\$function, \$value)
- labelMagicProperty (\$function, \$value)
- ownerMagicProperty (\$function, \$value)

Protected Attributes

- · \$objectId
- · \$objectProfile

5.5.1 Detailed Description

This is the base class for a Fedora Object.

5.5.2 Member Function Documentation

5.5.2.1 AbstractFedoraObject::constructDatastream (\$ id, \$ control_group = ' M')

See also

AbstractObject::constructDatastream()

Reimplemented from AbstractObject.

Reimplemented in FedoraObject, and NewFedoraObject.

5.5.2.2 AbstractFedoraObject::delete()

See also

AbstractObject::delete()

Reimplemented from AbstractObject.

5.5.2.3 AbstractFedoraObject::idMagicProperty (\$ function, \$ value)

[protected]

See also

AbstractObject::id

5.5.2.4 AbstractFedoraObject::labelMagicProperty (\$ function, \$ value)

[protected]

See also

AbstractObject::label

Reimplemented in FedoraObject.

5.5.2.5 AbstractFedoraObject::ownerMagicProperty (\$ function, \$ value)

[protected]

See also

AbstractObject::owner

Reimplemented in FedoraObject.

5.5.2.6 AbstractFedoraObject::stateMagicProperty (\$ function, \$ value)

[protected]

See also

AbstractObject::state

Reimplemented in FedoraObject.

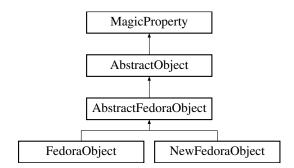
The documentation for this class was generated from the following file:

• Object.php

5.6 AbstractObject Class Reference

An abstract class defining a Object in the repository.

Inheritance diagram for AbstractObject:



Public Member Functions

• delete ()

Set the state of the object to deleted.

• getDatastream (\$id)

Get a datastream from the object.

• purgeDatastream (\$id)

Purges a datastream.

constructDatastream (\$id, \$control_group= 'M')

Factory to create new datastream objects.

• ingestDatastream (&\$ds)

Ingests a datastream object into the repository.

Public Attributes

- · \$label
- \$owner
- · \$state
- \$id
- · \$createdDate
- \$lastModifiedDate

5.6.1 Detailed Description

An abstract class defining a Object in the repository.

This is the class that needs to be implemented in order to create new repository backends that can be accessed using Tuque.

These classes implement the php object array interfaces so that the object can be accessed as an array. This provides access to datastreams. The object is also traversable with foreach, so that each datastream can be accessed.

```
$object = new AbstractObject()

// access every object
foreach($object as $dsid => $dsObject) {
    // print dsid and set contents to "foo"
    print($dsid);
    $dsObject->content = 'foo';
}

// test if there is a datastream called 'DC'
if(isset($object['DC'])) {
    // if there is print its contents
    print($object['DC']->content);
}
```

5.6.2 Member Function Documentation

5.6.2.1 AbstractObject::constructDatastream (id, $control_group = 'M'$) [abstract]

Factory to create new datastream objects.

Creates a new datastream object, this object is not ingested into the repository until you call ingestDatastream.

Parameters

string	\$id	The identifier of the new datastream.
string	\$control	The control group the new datastream will be created in.
	group	

Returns

AbstractDatastream Returns an instantiated Datastream object.

Reimplemented in FedoraObject, NewFedoraObject, and AbstractFedoraObject.

5.6.2.2 AbstractObject::getDatastream(\$id) [abstract]

Get a datastream from the object.

Parameters

string	\$id	The id of the datastream to retreve.

Returns

AbstractDatastream Returns FALSE if the datastream could not be found. - Otherwise it return an instantiated Datastream object.

Reimplemented in FedoraObject, and NewFedoraObject.

5.6.2.3 AbstractObject::purgeDatastream(\$ id) [abstract]

Purges a datastream.

Parameters

string	\$id	The id of the datastream to purge.

Returns

boolean TRUE on success. FALSE on failure.

Reimplemented in FedoraObject, and NewFedoraObject.

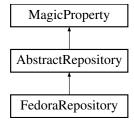
The documentation for this class was generated from the following file:

· Object.php

5.7 AbstractRepository Class Reference

An abstract repository interface.

Inheritance diagram for AbstractRepository:



Public Member Functions

constructObject (\$id=NULL)

This method is a factory that will return a new repositoryobject object that can be manipulated and then ingested into the repository.

ingestObject (NewFedoraObject &\$object)

This ingests a new object into the repository.

getObject (\$id)

Gets a object from the repository.

purgeObject (\$id)

Removes an object from the repository.

findObjects (array \$search)

Search the repository for objects.

5.7.1 Detailed Description

An abstract repository interface.

This can be used to override the implementation of the Repository.

5.7.2 Member Function Documentation

5.7.2.1 AbstractRepository::constructObject(\$ id = NULL) [abstract]

This method is a factory that will return a new repositoryobject object that can be manipulated and then ingested into the repository.

Parameters

string	\$id	The ID to assign to this object. There are three options:
		NULL: An ID will be assigned.
		 A namespace: An ID will be assigned in this namespace.
		A whole ID: The whole ID must contains a namespace and a identifier in the form NAMESPACE:IDENTIFIER

Returns

AbstractObject Returns an instantiated AbstractObject object that can be manipulated. This object will not actually be created in the repository until the ingest method is called.

Reimplemented in FedoraRepository.

5.7.2.2 AbstractRepository::findObjects(array\$ search) [abstract]

Search the repository for objects.

This function isn't implemented yet.

Todo Flesh out the function definition for this.

Reimplemented in FedoraRepository.

5.7.2.3 AbstractRepository::getObject(\$id) [abstract]

Gets a object from the repository.

Parameters

string	\$id	The identifier of the object.

Generated on Thu Jun 21 2012 17:43:56 for IslandoraFedoraAPI by Doxygen

Returns

AbstractObject The requested object.

Reimplemented in FedoraRepository.

5.7.2.4 AbstractRepository::ingestObject (NewFedoraObject &\$ object) [abstract]

This ingests a new object into the repository.

Parameters

-	&\$object	The instantiated AbstractObject to ingest into the repository.
Abstract-		This object is passed by reference, and the reference will be
Object		replaced by an object representing the ingested Abstract-
		Object.

Returns

AbstractObject The ingested abstract object.

Reimplemented in FedoraRepository.

5.7.2.5 AbstractRepository::purgeObject(\$id) [abstract]

Removes an object from the repository.

This function removes an object from the repository premenenty. It is a dangerous function since it remvoes an object and all of its history from the repository permenently.

Parameters

string	\$id	The identifier of the object.

Returns

boolean TRUE if object was purged.

Reimplemented in FedoraRepository.

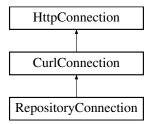
The documentation for this class was generated from the following file:

Repository.php

5.8 CurlConnection Class Reference

This class defines a abstract HttpConnection using the PHP cURL library.

Inheritance diagram for CurlConnection:



Public Member Functions

• __construct ()

Constructor for the connection.

destruct ()

Destructor for the connection.

• postRequest (\$url, \$type= 'none', \$data=NULL, \$content_type=NULL)

Post a request to the server.

• putRequest (\$url, \$type= 'none', \$file=NULL)

Send a HTTP PUT request to URL.

getRequest (\$url)

Send a HTTP GET request to URL.

deleteRequest (\$url)

Send a HTTP DELETE request to URL.

Public Attributes

• const COOKIE_LOCATION = 'curl_cookie'

Protected Member Functions

• getCurlContext ()

This function sets up the context for curl.

unallocateCurlContext ()

Unallocate curl context.

setupCurlContext (\$url)

This sets the curl options.

doCurlRequest ()

This function actually does the cURL request.

Protected Attributes

- \$cookieFile = NULL
- \$curlContext = NULL

5.8.1 Detailed Description

This class defines a abstract HttpConnection using the PHP cURL library.

5.8.2 Constructor & Destructor Documentation

```
5.8.2.1 CurlConnection::__construct()
```

Constructor for the connection.

Exceptions

```
HttpConnection-
Exception
```

5.8.3 Member Function Documentation

5.8.3.1 CurlConnection::deleteRequest (\$ url)

Send a HTTP DELETE request to URL.

Parameters

string	\$url	The URL to post the request to. Should start with the proto-
		col. For example: http://.

Exceptions

```
HttpConnection-
Exception
```

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented in RepositoryConnection.

5.8.3.2 CurlConnection::doCurlRequest() [protected]

This function actually does the cURL request.

It is a private function meant to be called by the public get, post and put methods.

Exceptions

HttpConnection-	
Exception	

Returns

array Array has keys: (status, headers, content).

5.8.3.3 CurlConnection::getRequest (\$ url)

Send a HTTP GET request to URL.

Parameters

string	\$url	The URL to post the request to.	Should start with the proto-
		col. For example: http://.	

Exceptions

HttpConnection-	
Exception	

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented from HttpConnection.

Reimplemented in RepositoryConnection.

```
5.8.3.4 CurlConnection::postRequest ( $ url, $ type = ' none', $ data = NULL, $ content_type = NULL )
```

Post a request to the server.

This is primarily used for sending files.

Todo Test this for posting general form data. (Other then files.)

Parameters

string	\$url	The URL to post the request to. Should start with the proto-	
		col. For example: http://.	
string	\$type	This paramerter must be one of: string, file.	
string	\$data	What this parameter contains is decided by the \$type pa-	
		rameter.	

Exceptions

```
HttpConnection-
Exception
```

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented from HttpConnection.

Reimplemented in RepositoryConnection.

5.8.3.5 CurlConnection::putRequest(\$ url, \$ type = 'none', \$ file = NULL)

Send a HTTP PUT request to URL.

Parameters

string	\$url	The URL to post the request to. Should start with the proto-
		col. For example: http://.
string	\$type	This paramerter must be one of: string, file.
string	\$file	What this parameter contains is decided by the \$type pa-
		rameter.

Exceptions

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented from HttpConnection.

Reimplemented in RepositoryConnection.

The documentation for this class was generated from the following file:

• HttpConnection.php

5.9 FedoraApi Class Reference

This is a simple class that brings FedoraApiM and FedoraApiA together.

Public Member Functions

 __construct (RepositoryConnection \$connection=NULL, FedoraApiSerializer \$serializer=NULL)

Constructor for the FedoraApi object.

Public Attributes

- \$a
- \$m

5.9.1 Detailed Description

This is a simple class that brings FedoraApiM and FedoraApiA together.

5.9.2 Constructor & Destructor Documentation

5.9.2.1 FedoraApi::__construct (RepositoryConnection $\$ connection = NULL, FedoraApiSerializer $\$ serializer = NULL)

Constructor for the FedoraApi object.

Parameters

-	\$connection	(Optional) If one isn't provided a default one will be used.
Repositor	y-	
Connection	n	
Fedora-	\$serializer	(Optional) If one isn't provided a default will be used.
Api-		
Serializer		

The documentation for this class was generated from the following file:

FedoraApi.php

5.10 FedoraApiA Class Reference

This class implements the Fedora API-A interface.

Public Member Functions

__construct (RepositoryConnection \$connection, FedoraApiSerializer \$serializer)

Constructor for the new FedoraApiA object.

describeRepository ()

Returns basic information about the Repository.

findObjects (\$type, \$query, \$max_results=NULL, \$display_fields=array('pid', 'title'))

Query fedora to return a list of objects.

resumeFindObjects (\$session_token)

Given a session key returned from findObject, this will return the next set of objects.

• getDatastreamDissemination (\$pid, \$dsid, \$as of date time=NULL)

Get the default dissemination of a datastream.

• getDissemination (\$pid, \$sdef_pid, \$method, \$method_parameters=NULL)

Get a datastream dissemination from Fedora.

getObjectHistory (\$pid)

Get the change history for the object.

getObjectProfile (\$pid, \$as_of_date_time=NULL)

Implements the getObjectProfile Fedora API-A method.

listDatastreams (\$pid, \$as of date time=NULL)

List all the datastreams that are associated with this PID.

• listMethods (\$pid, \$sdef pid= ", \$as of date time=NULL)

Implements the listMethods Fedora API-A method.

Protected Attributes

- · \$connection
- \$serializer

5.10.1 Detailed Description

This class implements the Fedora API-A interface.

This is a light wrapper around the Fedora interface. Very little attempt is put into putting things into native PHP datastructures.

See this page for more information: https://wiki.duraspace.org/display/-FEDORA35/REST+API

5.10.2 Constructor & Destructor Documentation

5.10.2.1 FedoraApiA::__construct (RepositoryConnection \$ connection, FedoraApiSerializer \$ serializer)

Constructor for the new FedoraApiA object.

Parameters

-	\$connection	Takes	the	Respository	Connection	object	for	the	-
Repositor	y-	Respo	sitory	this API shou	ld connect to.				
Connection	on								
Fedora-	\$serializer	Takes	he se	rializer object	to that will be	used to	seria	ılze tl	пе
Api-		XML F	edora	returns.					
Serializer									

5.10.3 Member Function Documentation

5.10.3.1 FedoraApiA::describeRepository()

Returns basic information about the Repository.

This is listed as an unimplemented function in the official API for Fedora. However other libraries connecting to the Fedora REST interaface use this so we are including it here. It may change in the future.

Exceptions

```
RepositoryException
```

Returns

array() An array describing the repository.

```
Arrav
    [repositoryName] => Fedora Repository
    [repositoryBaseURL] => http://localhost:8080/fedora
    [repositoryVersion] => 3.4.1
    [repositoryPID] => Array
            [PID-namespaceIdentifier] => changeme
            [PID-delimiter] => :
            [PID-sample] => changeme:100
            [retainPID] => *
        )
    [repositoryOAI-identifier] => Array
            [OAI-namespaceIdentifier] => example.org
            [OAI-delimiter] => :
            [OAI-sample] => oai:example.org:changeme:100
        )
    [sampleSearch-URL] => http://localhost:8080/fedora/objects
    [sampleAccess-URL] => http://localhost:8080/fedora/objects/demo:5
    [sampleOAI-URL] => http://localhost:8080/fedora/oai?verb=Identify
    [adminEmail] => Array
            [0] => bob@example.org
            [1] => sally@example.org
)
```

Query fedora to return a list of objects.

Parameters

string	\$type	The type of query. Decides the format of the next parameter. Valid options are:
		query: specific query on certain fields
		terms: search in any field
string	\$query	The format of this parameter depends on what was passed to type. The formats are:
		 query: A sequence of space-separated conditions A condition consists of a metadata element name followed directly by an operator, followed directly by a value. Valid element names are (pid, label, state, ownerld, cDate, mDate, dcmDate, title, creator, subject, description, publisher, contributor, date, type, format, identifier, source, language, relation, coverage, rights). Valid operators are: contains (~), equals (=), greater than (>), less than (<), greater than or equals (>=), less than or equals (<=). The contains (~) operator may be used in combination with the ? and * wildcards to query for simple string patterns. Values may be any string. If the string contains a space, the value should begin and end with a single quote character ('). If all conditions are met for an object, the object is considered a match.
		 terms: A phrase represented as a sequence of characters (including the ? and * wildcards) for the search. If this sequence is found in any of the fields for an object, the object is considered a match.
int	\$max results	(optional) Default: 25. The maximum number of results that the server should provide at once.
array	\$display fields	•

Exceptions

RepositoryException

Returns

array() The results are returned in an array key called 'results'. If there are more results that aren't returned then the search session information is contained in a key called 'session'. Note that it is possible for some display fields to be multivalued, such as identifier (DC allows multiple DC identifier results) in the case there are multiple results an array is returned instread of a string, this indexed array contains all of the values.

```
Array
   [session] => Array
           [token] => 96b2604f040067645f45daf029062d6e
           [cursor] => 0
           [expirationDate] => 2012-03-07T14:28:24.886Z
   [results] => Array
       (
           [0] => Array
                   [pid] => islandora:collectionCModel
                   [title] => Islandora Collection Content Model
                   [identifier] => Contents of DC:Identifier
           [1] => Array
                   [pid] => islandora:testCModel
                   [title] => Test content model for Ari
                   [identifier] => Array
                       (
                            [0] => Contents of first DC:Identifier
                            [1] => Contents of seconds DC: Identifier
               )
       )
)
```

5.10.3.3 FedoraApiA::getDatastreamDissemination (\$ pid, \$ dsid, \$ as_of_date_time = NULL)

Get the default dissemination of a datastream.

(Get the contents.)

Parameters

String	\$pid	Persistent identifier of the digital object.
String	\$dsid	Datastream identifier.
array	\$as_of	(optional) Indicates that the result should be relative to the
	date_time	digital object as it existed at the given date and time
		Defaults to the most recent version.

Exceptions

Respository-	
Exception	

Returns

string The response from Fedora with the contents of the datastream.

5.10.3.4 FedoraApiA::getDissemination (\$ pid, \$ sdef_pid, \$ method, \$ method_parameters = NULL)

Get a datastream dissemination from Fedora.

Parameters

String	\$pid	Persistent identifier of the digital object.
String	\$sdef_pid	Persistent identifier of the sDef defining the methods.
String	\$method	Method to invoke.
String	\$method	A key-value paired array of parameters required by the
	parameters	method.

Exceptions

Recognitory-	
Respository-	
Exception	

Returns

string The response from Fedora.

5.10.3.5 FedoraApiA::getObjectHistory(\$pid)

Get the change history for the object.

Parameters

String	\$pid	Persistent identifier of the digital object.

Exceptions

RepositoryException

Returns

array() An array containing the different revisions of the object.

```
Array
(
[0] => 2011-07-08T18:01:40.384Z
[1] => 2011-07-08T18:01:40.464Z
[2] => 2011-07-08T18:01:40.552Z
[3] => 2011-07-08T18:01:40.694Z
[4] => 2012-02-22T15:07:15.305Z
[5] => 2012-02-29T14:20:28.857Z
[6] => 2012-02-29T14:22:18.239Z
[7] => 2012-02-29T14:22:46.545Z
[8] => 2012-02-29T20:52:33.069Z
```

5.10.3.6 FedoraApiA::getObjectProfile (\$ pid, \$ as_of_date_time = NULL)

Implements the getObjectProfile Fedora API-A method.

Parameters

String	\$pid	Persistent identifier of the digital object.
String	\$as_of	(Optional) Indicates that the result should be relative to the
	date_time	digital object as it existed on the given date. Date Format:
		yyyy-MM-dd or yyyy-MM-ddTHH:mm:ssZ

Exceptions

```
RepositoryException
```

Returns

array() Returns information about the digital object.

5.10.3.7 FedoraApiA::listDatastreams (\$ pid, \$ as_of_date_time = NULL)

List all the datastreams that are associated with this PID.

Parameters

string	\$pid	Persistent identifier of the digital object.
string	\$as_of	(optional) Indicates that the result should be relative to the
	date_time	digital object as it existed on the given date. Date Format:
		yyyy-MM-dd or yyyy-MM-ddTHH:mm:ssZ.

Exceptions

```
RepositoryException
```

Returns

array() An associative array with the dsid of the datastreams as the key and the mimetype and label as the value.

5.10.3.8 FedoraApiA::listMethods (pid, $def_pid = ''$, $ae_of_date_time = NULL$)

Implements the listMethods Fedora API-A method.

Parameters

String	\$pid	Persistent identifier of the digital object.	
String	\$sdef_pid	(Optional) Persistent identifier of the SDef defining the meth-	
		ods.	
String	\$as_of	(Optional) Indicates that the result should be relative to the	
	date_time	digital object as it existed on the given date. Date Format:	
		yyyy-MM-dd or yyyy-MM-ddTHH:mm:ssZ.	

Exceptions

```
RepositoryException
```

Returns

array() An array containing data about the methods that can be called. The result array is an associative array where the sdef pid is the key and the value is a indexed array of methods.

5.10.3.9 FedoraApiA::resumeFindObjects (\$ session_token)

Given a session key returned from findObject, this will return the next set of objects.

Parameters

string	\$session	Session token returned from previous search call.
	token	

Exceptions

Respository-	
Exception	

Returns

array() The result format is the same as findObjects.

See also

FedoraApiA::findObjects

The documentation for this class was generated from the following file:

· FedoraApi.php

5.11 FedoraApiM Class Reference

This class implements the Fedora API-M interface.

Public Member Functions

__construct (RepositoryConnection \$connection, FedoraApiSerializer \$serializer)

Constructor for the new FedoraApiM object.

• addDatastream (\$pid, \$dsid, \$type, \$file, \$params)

Add a new datastream to a fedora object.

• addRelationship (\$pid, \$relationship, \$is_literal, \$datatype=NULL)

Add a RDF relationship to a Fedora object.

export (\$pid, \$params=array())

Export a Fedora object with the given PID.

• getDatastream (\$pid, \$dsid, \$params=array())

Returns information about the datastream.

getDatastreamHistory (\$pid, \$dsid)

Get information on the different versions of a datastream that are avilable in Fedora.

• getNextPid (\$namespace=NULL, \$numpids=NULL)

Get a new unused PID.

getObjectXml (\$pid)

Get the Fedora Objects XML (Foxml)

• getRelationships (\$pid, \$relationship=array())

Query relationships for a particular fedora object.

ingest (\$params=array())

Create a new object in Fedora.

• modifyDatastream (\$pid, \$dsid, \$params=array())

Update a datastream.

modifyObject (\$pid, \$params=NULL)

Update Fedora Object parameters.

• purgeDatastream (\$pid, \$dsid, \$params=array())

Purge a datastream from from Fedora.

• purgeObject (\$pid, \$log_message=NULL)

Purge an object.

• upload (\$file)

5.11.1 Detailed Description

This class implements the Fedora API-M interface.

This is a light wrapper around the Fedora interface. Very little attempt is put into putting things into native PHP datastructures.

See this page for more information: https://wiki.duraspace.org/display/-FEDORA35/REST+API

5.11.2 Constructor & Destructor Documentation

5.11.2.1 FedoraApiM::__construct (RepositoryConnection \$ connection, FedoraApiSerializer \$ serializer)

Constructor for the new FedoraApiM object.

Parameters

-	\$connection	Takes	the	Respository	Connection	object	for	the	-
Repositor	y-	Respo	sitory	this API shou	ld connect to.				
Connection	n								
Fedora-	\$serializer	Takes t	he se	rializer object	to that will be	used to	seria	alze tl	he
Api-		XML F	edora	returns.					
Serializer									

5.11.3 Member Function Documentation

5.11.3.1 FedoraApiM::addDatastream (\$ pid, \$ dsid, \$ type, \$ file, \$ params)

Add a new datastream to a fedora object.

The datastreams are sent to Fedora using a multipart post if a string or file is provided otherwise Fedora will go out and fetch the URL

Parameters

string	\$pid	Persistent identifier of the digital object.	
string	\$dsid	Datastream identifier.	
string	\$type	This parameter tells the function what type of arguement is given for file. It must be one of:	
		 string: The datastream is passed as a string. 	
		file: The datastream is contained in a file.	
		 url: The datastream is located at a URL, which is passed as a string. this is the only option that can be used for R and E type datastreams. 	

string	\$file	This parameter depends on what is selected for \$type.
		 string: A string containing the datastream.
		file: A string containing the file name that contains the datastream. The file name must be a full path.
		 url: A string containing the publically accessable URL that the datastream is located at.
	array()	\$params (optional) An array that can have one or more of the following elements:
		 controlGroup: one of "X", "M", "R", or "E" (Inline *X*-ML, *M*anaged Content, *R*edirect, or *E*xternal Referenced). Default: X.
		 altIDs: alternate identifiers for the datastream. A space seperated list of alternate identifiers for the datastream.
		 dsLabel: the label for the datastream.
		 versionable: enable versioning of the datastream (boolean).
		 dsState: one of "A", "I", "D" (*A*ctive, *I*nactive, *-D*eleted).
		formatURI: the format URI of the datastream.
		 checksumType: the algorithm used to compute the checksum. One of DEFAULT, DISABLED, MD5, SHA- 1, SHA-256, SHA-385, SHA-512.
		 checksum: the value of the checksum represented as a hexadecimal string.
		 mimeType: the MIME type of the content being added, this overrides the Content-Type request header.
		 logMessage: a message describing the activity being performed.

Exceptions

RepositoryException

Returns

array() Returns an array describing the new datastream. This is the same array returned by getDatastream. This may also contain an dsAltID key, that contains any alternate ids if any are specified.

```
Array
(
    [dsLabel] =>
    [dsVersionID] => test.3
```

```
[dsCreateDate] => 2012-03-07T18:03:38.679Z
[dsState] => A
[dsMIME] => text/xml
[dsFormatURI] =>
[dsControlGroup] => M
[dsSize] => 22
[dsVersionable] => true
[dsInfoType] =>
[dsLocation] => islandora:strict_pdf+test+test.3
[dsLocationType] => INTERNAL_ID
[dsChecksumType] => DISABLED
[dsChecksum] => none
```

See also

FedoraApiM::getDatastream

5.11.3.2 FedoraApiM::addRelationship (pid, relationship, $is_literal$, datatype = NULL)

Add a RDF relationship to a Fedora object.

Parameters

string	\$pid	Persistent identifier of the digital object.
array	\$relationship	An array containing the subject, predicate and object for the relationship.
		 subject: (optional) Subject of the relationship. Either a URI for the object or one of its datastreams. If none is given then the URI for the current object is used.
		 predicate: Predicate of the relationship.
		object: Object of the relationship.
boolean	\$is_literal	true if the object of the relationship is a literal, false if it is a URI
string	\$datatype	(optional) if the object is a literal, the datatype of the literal.

Exceptions

```
RepositoryException
```

See also

FedoraApiM::getRelationships FedoraApiM::purgeRelationships

5.11.3.3 FedoraApiM::export(\$pid, \$params = array())

Export a Fedora object with the given PID.

Parameters

string	\$pid	Persistent identifier of the digital object.
array	\$params	(optional) An array that can have one or more of the following elements:
		 format: The XML format to export. One of info- :fedora/fedora-system:FOXML-1.1 (default), info- :fedora/fedora-system:FOXML-1.0, info:fedora/fedora- system:METSFedoraExt-1.1, info:fedora/fedora- system:METSFedoraExt-1.0, info:fedora/fedora- system:ATOM-1.1, info:fedora/fedora-system:ATOM- Zip-1.1
		 context: The export context, which determines how datastream URLs and content are represented. Options: public (default), migrate, archive.
		 encoding: The preferred encoding of the exported X-ML.

Exceptions

RepositoryException

Returns

string A string containing the requested XML.

5.11.3.4 FedoraApiM::getDatastream (\$ pid, \$ dsid, \$ params = array())

Returns information about the datastream.

Parameters

string	\$pid	Persistent identifier of the digital object.			
string	\$dsid	Datastream identifier.			
array	\$params	optional) An array that can have one or more of the follow- ng elements:			
		 asOfDateTime: Indicates that the result should be relative to the digital object as it existed on the given date. 			
		 validateChecksum: verifies that the Datastream content has not changed since the checksum was initially computed. 			

Exceptions

```
RepositoryException
```

Returns

array() An array containing information about the datastream. This may also contains a key dsAltID which contains alternate ids if any are specified.

```
Array
(
    [dsLabel] =>
    [dsVersionID] => test.3
    [dsCreateDate] => 2012-03-07T18:03:38.679Z
    [dsState] => A
    [dsMIME] => text/xml
    [dsFormatURI] =>
    [dsControlGroup] => M
    [dsSize] => 22
    [dsVersionable] => true
    [dsInfoType] =>
    [dsLocation] => islandora:strict_pdf+test+test.3
    [dsLocationType] => INTERNAL_ID
    [dsChecksumType] => DISABLED
    [dsChecksum] => none
)
```

5.11.3.5 FedoraApiM::getDatastreamHistory (\$ pid, \$ dsid)

Get information on the different versions of a datastream that are avilable in Fedora.

Parameters

string	\$pid	Persistent identifier of the digital object.
string	\$dsid	Datastream identifier.

Exceptions

```
RepositoryException
```

Returns

array Returns a indexed array with the same keys as getDatastream.

```
Array
(
    [0] => Array
    (
        [dsLabel] =>
        [dsVersionID] => test.3
        [dsCreateDate] => 2012-03-07T18:03:38.679Z
        [dsState] => A
        [dsMIME] => text/xml
        [dsFormatURI] =>
        [dsControlGroup] => M
        [dsSize] => 22
```

```
[dsVersionable] => true
            [dsInfoType] =>
            [dsLocation] => islandora:strict_pdf+test+test.3
            [dsLocationType] => INTERNAL_ID
            [dsChecksumType] => DISABLED
            [dsChecksum] => none
    [1] => Array
            [dsLabel] =>
            [dsVersionID] => test.2
            [dsCreateDate] => 2012-03-07T18:03:13.722Z
            [dsState] => A
            [dsMIME] => text/xml
            [dsFormatURI] =>
            [dsControlGroup] => M
            [dsSize] \Rightarrow 22
            [dsVersionable] => true
            [dsInfoType] =>
            [dsLocation] => islandora:strict_pdf+test+test.2
            [dsLocationType] => INTERNAL_ID
            [dsChecksumType] => DISABLED
            [dsChecksum] => none
)
```

See also

FedoraApiM::getDatastream

5.11.3.6 FedoraApiM::getNextPid (\$ namespace = NULL, \$ numpids = NULL)

Get a new unused PID.

Parameters

	string	\$namespace	The namespace to get the PID in. This defaults to de-
			fault namespace of the repository. This should not contain
			the PID seperator, for example it should be islandora not
			islandora:.
Ì	int	\$numpids	The number of pids being requested.

Exceptions

```
RepositoryException
```

Returns

array/string If one pid is requested it is returned as a string. If multiple pids are requested they they are returned in an array containg strings.

Array

```
[0] => test:7
[1] => test:8
```

5.11.3.7 FedoraApiM::getObjectXmI(\$pid)

Get the Fedora Objects XML (Foxml)

Parameters

string	\$pid	Persistent identifier of the digital object.
--------	-------	--

Exceptions

```
RepositoryException
```

Returns

string A string containing the objects foxml

See also

FedoraApiM::export

5.11.3.8 FedoraApiM::getRelationships (\$ pid, \$ relationship = array ())

Query relationships for a particular fedora object.

Parameters

string	\$pid	Persistent identifier of the digital object.
array	\$relationship	(Optional) An array defining the relationship:
		 subject: subject of the relationship(s). Either a URI for the object or one of its datastreams. defaults to the URI of the object.
		 predicate: predicate of the relationship(s), if missing returns all predicates.

Exceptions

```
RepositoryException
```

Returns

array An indexed array with all the relationships.

```
Array
    [0] => Array
        (
            [subject] => islandora:strict_pdf
            [predicate] => Array
                    [predicate] => hasModel
                    [uri] => info:fedora/fedora-system:def/model#
                    [alias] =>
            [object] => Array
                (
                    [literal] => FALSE
                    [value] => fedora-system:FedoraObject-3.0
                )
    [1] => Array
            [subject] => islandora:strict_pdf
            [predicate] => Array
                    [predicate] => bar
                    [uri] => http://woot/foo#
                    [alias] =>
            [object] => Array
                (
                    [literal] => TRUE
                     [value] => thedude
)
```

5.11.3.9 FedoraApiM::ingest(\$ params = array())

Create a new object in Fedora.

This could be ingesting a XML file as a string or a file. Executing this request with no XML file content will result in the creation of a new, empty object (with either the specified PID or a system-assigned PID). The new object will contain only a minimal DC datastream specifying the dc:identifier of the object.

Parameters

(optional) An array that can have one or more of the followarray \$params ing elements: · pid: persistent identifier of the object to be created. -If this is not supplied then either a new PID will be created for this object or the PID to be used is encoded in the XML included as the body of the request · string: The XML file defining the new object as a string · file: The XML file defining the new object as a string containing the full path to the XML file. This must not be used with the string parameter · label: the label of the new object · format: the XML format of the object to be ingested. One of info:fedora/fedora-system:FO-XML-1.1, info:fedora/fedora-system:FOXML-1.0, info:fedora/fedora-system:METSFedoraExt-1.1, info:fedora/fedora-system:METSFedoraExt-1.0, info-:fedora/fedora-system:ATOM-1.1, info:fedora/fedorasystem:ATOMZip-1.1 encoding: the encoding of the XML to be ingested. If this is specified, and given as anything other than UTF-8, you must ensure that the same encoding is declared in the XML. · namespace: The namespace to be used to create a PID for a new empty object: if a 'string' parameter is included with the request, the namespace parameter is ignored. ownerld: the id of the user to be listed at the object · logMessage: a message describing the activity being performed.

Exceptions

RepositoryException

Returns

string The PID of the newly created object.

Todo This function is a problem in Fedora < 3.5 where ownerld does not properly get set. https://jira.duraspace.org/browse/FCREPO-963. We should deal with this.

5.11.3.10 FedoraApiM::modifyDatastream (\$ pid, \$ dsid, \$ params = array())

Update a datastream.

Either changing its metadata, updaing the datastream contents or both.

Parameters

string	\$pid	Persistent identifier of the digital object.
string	\$dsid	Datastream identifier.
array	\$params	(optional) An array that can have one or more of the following elements:
		 dsFile: String containing the full path to a file that will be used as the new contents of the datastream.
		 dsString: String containing the new contents of the datastream.
		 dsLocation: String containing a URL to fetch the new datastream from. Only ONE of dsFile, dsString or ds- Location should be used.
		 altIDs: alternate identifiers for the datastream. This is a space seperated string of alternate identifiers for the datastream.
		 dsLabel: the label for the datastream.
		 versionable: enable versioning of the datastream.
		 dsState: one of "A", "I", "D" (*A*ctive, *I*nactive, *- D*eleted)
		 formatURI: the format URI of the datastream
		 checksumType: the algorithm used to compute the checksum. This has to be one of: DEFAULT, DISA- BLED, MD5, SHA-1, SHA-256, SHA-384, SHA-512. If this parameter is given and no checksum is given the checksum will be computed.
		 checksum: the value of the checksum represented as a hexadecimal string. This checksum must be com- puted by the algorithm defined above.
		 mimeType: the MIME type of the content being added, this overrides the Content-Type request header.
		 logMessage: a message describing the activity being performed
		 lastModifiedDate: date/time of the last (known) mod- ification to the datastream, if the actual last modified date is later, a 409 response is returned. This can be used for opportunistic object locking.

Exceptions

RepositoryException

Returns

array An array contianing information about the updated datastream. This array is the same as the array returned by getDatastream.

See also

FedoraApiM::getDatastream

5.11.3.11 FedoraApiM::modifyObject (pid, params = NULL)

Update Fedora Object parameters.

Parameters

string	\$pid	Persistent identifier of the digital object.
array	\$params	(optional) An array that can have one or more of the following elements:
		label: object label.
		 ownerld: the id of the user to be listed at the object owner.
		 state: the new object state - *A*ctive, *I*nactive, or *D*eleted.
		 logMessage: a message describing the activity being performed.
		 lastModifiedDate: date/time of the last (known) modification to the datastream, if the actual last modified date is later, a 409 response is returned. This can be used for opportunistic object locking.

Exceptions

RepositoryException	

Returns

string A string containg the timestamp of the object modification.

5.11.3.12 FedoraApiM::purgeDatastream (\$ pid, \$ dsid, \$ params = array())

Purge a datastream from from Fedora.

This perminatly removes the datastream and all its associated data.

Parameters

string	\$pid	Persistent identifier of the digital object.	
string	\$dsid	Datastream identifier	
array	\$params	(optional) An array that can have one or more of the following elements:	
		 startDT: the (inclusive) start date-time stamp of the range. If not specified, this is taken to be the lowest possible value, and thus, the entire version history up to the endDT will be purged. 	
		 endDT: the (inclusive) ending date-time stamp of the range. If not specified, this is taken to be the great- est possible value, and thus, the entire version history back to the startDT will be purged. 	
		 logMessage: a message describing the activity being performed. 	

Exceptions

```
RepositoryException
```

Returns

array An array containing the timestamps of the datastreams that were removed.

```
Array (
    [0] => 2012-03-08T18:44:15.214Z
    [1] => 2012-03-08T18:44:15.336Z
)
```

5.11.3.13 FedoraApiM::purgeObject (pid, pid,

Purge an object.

Parameters

string	\$pid	Persistent identifier of the digital object.	
string	\$log	(optional) A message describing the activity being per-	
	message	formed.	

Exceptions

RepositoryException	

Returns

string Timestamp when object was deleted.

The documentation for this class was generated from the following file:

· FedoraApi.php

5.12 FedoraApiSerializer Class Reference

A class to Serialize the XML responses from Fedora into PHP arrays.

Public Member Functions

 domDocumentExceptionHandler (\$errno, \$errstr, \$errfile= ", \$errline=NULL, \$errcontext=NULL)

This is a simple exception handler, that will throw an exception if there is a problem parsing XML from Fedora.

• describeRepository (\$request)

Serializes the data returned in FedoraApiA::describeRepository()

findObjects (\$request)

Serializes the data returned in FedoraApiA::findObjects()

resumeFindObjects (\$request)

Serializes the data returned in FedoraApiA::resumeFindObjects()

getDatastreamDissemination (\$request)

Serializes the data returned in FedoraApiA::getDatastreamDissemination()

getDissemination (\$request)

Serializes the data returned in FedoraApiA::getDissemination()

• getObjectHistory (\$request)

Serializes the data returned in FedoraApiA::getObjectHistory()

• getObjectProfile (\$request)

Serializes the data returned in FedoraApiA::getObjectProfile()

• listDatastreams (\$request)

Serializes the data returned in FedoraApiA::listDatastreams()

listMethods (\$request)

Serializes the data returned in FedoraApiA::listMethods()

addDatastream (\$request)

Serializes the data returned in FedoraApiM::addDatastream()

addRelationship (\$request)

Serializes the data returned in FedoraApiM::addRelationship()

export (\$request)

Serializes the data returned in FedoraApiM::export()

• getDatastream (\$request)

Serializes the data returned in FedoraApiM::getDatastream()

getDatastreamHistory (\$request)

Serializes the data returned in FedoraApiM::getDatastreamHistory()

getNextPid (\$request)

Serializes the data returned in FedoraApiM::getNextPid()

getObjectXml (\$request)

Serializes the data returned in FedoraApiM::getObjectXml()

getRelationships (\$request)

Serializes the data returned in FedoraApiM::getRelationships()

• ingest (\$request)

Serializes the data returned in FedoraApiM::ingest()

modifyDatastream (\$request)

Serializes the data returned in FedoraApiM::modifyDatastream()

modifyObject (\$request)

Serializes the data returned in FedoraApiM::modifyObject()

purgeDatastream (\$request)

Serializes the data returned in FedoraApiM::purgeDatastream()

purgeObject (\$request)

Serializes the data returned in FedoraApiM::purgeObject()

upload (\$request)

Protected Member Functions

loadSimpleXml (\$xml)

Simple function that takes an XML string and returns a SimpleXml object.

loadDomDocument (\$xml)

Simple function that takes an XML string and returns a DomDocument object.

• flattenDocument (\$xml, \$make array=array())

Flatten a simplexml object returning an array containing the text from the XML.

5.12.1 Detailed Description

A class to Serialize the XML responses from Fedora into PHP arrays.

5.12.2 Member Function Documentation

5.12.2.1 FedoraApiSerializer::domDocumentExceptionHandler (\$ errno, \$ errstr, \$ errfile = ' ', \$ errline = NULL, \$ errcontext = NULL)

This is a simple exception handler, that will throw an exception if there is a problem parsing XML from Fedora.

This is nice so we can catch it.

Parameters

int	\$errno	The error number	
string	\$errstr	String describing an error.	
string	\$errfile	(optional) The third parameter is optional, errfile, which contains the filename that the error was raised in, as a string.	
int	\$errline	(optional) The fourth parameter is optional, errline, which contains the line number the error was raised at, as an integer.	
array	\$errcontext		

Returns

boolean TRUE if we through an exception FALSE otherwise

See also

php.net/manual/en/function.set-error-handler.php

5.12.2.2 FedoraApiSerializer::flattenDocument(\$ xml, \$ make_array = array()) [protected]

Flatten a simplexml object returning an array containing the text from the XML.

This is often used to get data back from fedora. It also makes sure to cast everything to string.

Parameters

Simple-	\$xml	The simplexml elemnt to be processed.
Xml-		
Element		
	array()	\$make_array (optional) This parameter specifies tags that should become an array instead of an element in an array. This is used to get consistant values for things that are multivalued when there is only one value returned.

Generated on Thu Jun 21 2012 17:43:56 for IslandoraFedoraAPI by Doxygen

Returns

array An array representation of the XML.

5.12.2.3 FedoraApiSerializer::loadDomDocument(\$xml) [protected]

Simple function that takes an XML string and returns a DomDocument object.

It makes sure no PHP errors or warnings are issued and instead throws an exception if the XML parse failed.

Parameters

string	\$xml	The XML as a string	

Exceptions

```
RepositoryXmlError
```

Returns

DomDocument Return an istantiated DomDocument

5.12.2.4 FedoraApiSerializer::loadSimpleXml(\$xml) [protected]

Simple function that takes an XML string and returns a SimpleXml object.

It makes sure no PHP errors or warnings are issued and instead throws an exception if the XML parse failed.

Parameters

string	\$xml	The XML as a string
--------	-------	---------------------

Exceptions

```
RepositoryXmlError
```

Returns

SimpleXmlElement Return an istantiated simplexml

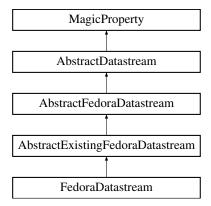
The documentation for this class was generated from the following file:

• FedoraApiSerializer.php

5.13 Fedora Datastream Class Reference

This class implements a fedora datastream.

Inheritance diagram for FedoraDatastream:



Public Member Functions

__construct (\$id, FedoraObject \$object, FedoraRepository \$repository, array \$datastream_info=NULL)

Domo arigato, Mr.

• refresh ()

This function clears the datastreams caches, so everything will be requested directly from fedora again.

- setContentFromFile (\$file)
- setContentFromUrl (\$url)
- setContentFromString (\$string)
- count ()
- offsetExists (\$offset)
- offsetGet (\$offset)
- offsetSet (\$offset, \$value)
- offsetUnset (\$offset)
- getIterator ()

IteratorAggregate::getIterator()

Public Attributes

• **\$forceUpdate** = FALSE

Protected Member Functions

• populateDatastreamHistory ()

This populates datastream history if it needs to be populated.

populateDatastreamInfo ()

This function uses datastream history to populate datastream info.

modifyDatastream (array \$args)

This function modifies the datastream in fedora while adding the parameters needed to respect datastram locking and making sure that we keep the internal class cache of the datastream up to date.

getDatastreamContent (\$version=NULL)

A light wrapper around getting the datastream content from fedora.

- controlGroupMagicProperty (\$function, \$value)
- stateMagicProperty (\$function, \$value)
- labelMagicProperty (\$function, \$value)
- versionableMagicProperty (\$function, \$value)
- mimetypeMagicProperty (\$function, \$value)
- formatMagicProperty (\$function, \$value)
- sizeMagicProperty (\$function, \$value)
- checksumMagicProperty (\$function, \$value)
- checksumTypeMagicProperty (\$function, \$value)
- createdDateMagicProperty (\$function, \$value)
- contentMagicProperty (\$function, \$value)
- urlMagicProperty (\$function, \$value)

Protected Attributes

• \$datastreamHistory = NULL

5.13.1 Detailed Description

This class implements a fedora datastream.

It also lets old versions of datastreams be accessed using array notation. For example to see how many versions of a datastream there are:

```
count ($datastream)
```

Old datastreams are indexed newest to oldest. The current version is always index 0, and older versions are indexed from that. Old versions can be discarded using the unset command.

These functions respect datastream locking. If a datastream changes under your feet then an exception will be raised.

```
5.13.2 Constructor & Destructor Documentation
```

5.13.2.1 FedoraDatastream::__construct (\$ id, FedoraObject \$ object, FedoraRepository \$ repository, array \$ datastream_info = NULL)

Domo arigato, Mr.

Roboto. Constructor.

5.13.3 Member Function Documentation

5.13.3.1 FedoraDatastream::checksumMagicProperty (\$ function, \$ value)
[protected]

See also

AbstractDatastream::checksum

Todo maybe add functionality to set it to auto

5.13.3.2 FedoraDatastream::checksumTypeMagicProperty(\$ function, \$ value) [protected]

See also

AbstractDatastream::checksumType

```
5.13.3.3 FedoraDatastream::contentMagicProperty ( $ function, $ value )
[protected]
```

See also

AbstractDatastream::content

Todo We should perhaps cache this? depending on size?

5.13.3.4 FedoraDatastream::controlGroupMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::controlGroup

Reimplemented from AbstractFedoraDatastream.

```
5.13.3.5 FedoraDatastream::count()
See also
    Countable::count
5.13.3.6 FedoraDatastream::createdDateMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::createdDate
5.13.3.7 FedoraDatastream::formatMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::format
5.13.3.8 FedoraDatastream::labelMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::label
5.13.3.9 FedoraDatastream::mimetypeMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::mimetype
5.13.3.10 FedoraDatastream::offsetExists ( $ offset )
See also
    ArrayAccess::offsetExists
5.13.3.11 FedoraDatastream::offsetGet($ offset)
See also
    ArrayAccess::offsetGet
```

```
5.13.3.12 FedoraDatastream::offsetSet ( $ offset, $ value )
See also
    ArrayAccess::offsetSet
5.13.3.13 FedoraDatastream::offsetUnset($ offset)
See also
    ArrayAccess::offsetUnset
5.13.3.14 FedoraDatastream::setContentFromFile ( $ file )
See also
    AbstractDatastream::setContentFromFile
Reimplemented from AbstractDatastream.
5.13.3.15 FedoraDatastream::setContentFromString ( $ string )
See also
    AbstractDatastream::setContentFromString
Reimplemented from AbstractDatastream.
5.13.3.16 FedoraDatastream::setContentFromUrl ( $ url )
See also
    AbstractDatastream::setContentFromUrl
Reimplemented from AbstractDatastream.
5.13.3.17 FedoraDatastream::sizeMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::size
```

5.13.3.18 FedoraDatastream::stateMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::state

See also

AbstractDatastream::url

5.13.3.20 FedoraDatastream::versionableMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::versionable

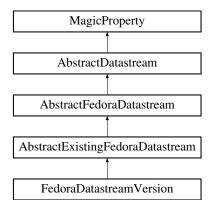
The documentation for this class was generated from the following file:

· Datastream.php

5.14 Fedora Datastream Version Class Reference

This class implements an old version of a fedora datastream.

Inheritance diagram for FedoraDatastreamVersion:



Public Member Functions

• __construct (\$id, array \$datastream_info, FedoraDatastream \$datastream, - FedoraObject \$object, FedoraRepository \$repository)

The Constructor! Sounds like a superhero doesn't it.

- setContentFromFile (\$file)
- setContentFromString (\$string)
- setContentFromUrl (\$url)

Public Attributes

· \$parent

Protected Member Functions

• error ()

This function gives us a consistant error across this whole clas.

generalReadOnly (\$offset, \$unset_val, \$function, \$value)

Since this whole class is read only, this is a general implementation of the Magic-Propery function that is ready only.

- stateMagicProperty (\$function, \$value)
- labelMagicProperty (\$function, \$value)
- versionableMagicProperty (\$function, \$value)
- mimetypeMagicProperty (\$function, \$value)
- formatMagicProperty (\$function, \$value)
- sizeMagicProperty (\$function, \$value)
- checksumMagicProperty ()
- createdDateMagicProperty (\$function, \$value)
- contentMagicProperty (\$function, \$value)

5.14.1 Detailed Description

This class implements an old version of a fedora datastream.

Its properties are the same of a normal fedora datastream, except since its an older verion everything is read only.

5.14.2 Constructor & Destructor Documentation

5.14.2.1 FedoraDatastreamVersion::__construct (\$ id, array \$ datastream_info, FedoraDatastream \$ datastream, FedoraObject \$ object, FedoraRepository \$ repository)

The Constructor! Sounds like a superhero doesn't it.

Constructor away!

```
5.14.3 Member Function Documentation
5.14.3.1 FedoraDatastreamVersion::checksumMagicProperty ( )
        [protected]
See also
    AbstractDatastream::checksum
5.14.3.2 FedoraDatastreamVersion::contentMagicProperty ( $ function, $ value )
        [protected]
See also
    AbstractDatastream::content
5.14.3.3 FedoraDatastreamVersion::createdDateMagicProperty ($\$function, $\$value$
        ) [protected]
See also
    AbstractDatastream::createDate
5.14.3.4 FedoraDatastreamVersion::formatMagicProperty ( $ function, $ value )
        [protected]
See also
    AbstractDatastream::format
5.14.3.5 FedoraDatastreamVersion::labelMagicProperty ( $ function, $ value )
        [protected]
See also
    AbstractDatastream::label
5.14.3.6 FedoraDatastreamVersion::mimetypeMagicProperty ( $ function, $ value )
        [protected]
See also
    AbstractDatastream::mimetype
```

```
5.14.3.7 FedoraDatastreamVersion::setContentFromFile ( $ file )
See also
    AbstractDatastream::setContentFromFile()
Reimplemented from AbstractDatastream.
5.14.3.8 FedoraDatastreamVersion::setContentFromString ( $ string )
See also
    AbstractDatastream::setContentFromString()
Reimplemented from AbstractDatastream.
5.14.3.9 FedoraDatastreamVersion::setContentFromUrl($url)
See also
    AbstractDatastream::setContentFromUrl()
Reimplemented from AbstractDatastream.
5.14.3.10 FedoraDatastreamVersion::sizeMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::size
5.14.3.11 FedoraDatastreamVersion::stateMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractDatastream::state
5.14.3.12 FedoraDatastreamVersion::versionableMagicProperty ($ function, $ value
         ) [protected]
See also
    AbstractDatastream::versionable
```

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· Datastream.php

The documentation for this class was generated from the following file:

5.15 FedoraDate Class Reference

This file represents a Fedora Date.

Public Member Functions

- __toString ()
- __construct (\$time)

5.15.1 Detailed Description

This file represents a Fedora Date.

It wraps the PHP datetime functions specifically for the date format used in Fedora. This allows the easy comparison of dates for example.

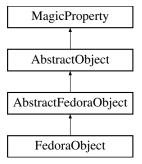
The documentation for this class was generated from the following file:

· FedoraDate.php

5.16 FedoraObject Class Reference

Represents a Fedora Object.

Inheritance diagram for FedoraObject:



Public Member Functions

__construct (\$id, FedoraRepository \$repository)

The class constructor.

purgeDatastream (\$id)

Purge a datastream.

- getDatastream (\$id)
- constructDatastream (\$id, \$control group= 'M')

- ingestDatastream (&\$ds)
- count ()
- offsetExists (\$offset)
- offsetGet (\$offset)
- offsetSet (\$offset, \$value)
- offsetUnset (\$offset)
- getIterator ()

IteratorAggregate::getIterator()

Public Attributes

• \$forceUpdate = FALSE

Protected Member Functions

• populateDatastreams ()

this will populate the datastream list the first time it is needed.

modifyObject (\$params)

This is a wrapper on APIM modify object to make sure we respect locking.

- stateMagicProperty (\$function, \$value)
- labelMagicProperty (\$function, \$value)
- ownerMagicProperty (\$function, \$value)
- createdDateMagicProperty (\$function, \$value)
- lastModifiedDateMagicProperty (\$function, \$value)
- modelsMagicProperty (\$function, \$value)

Protected Attributes

• \$datastreams = NULL

5.16.1 Detailed Description

Represents a Fedora Object.

Should be created by the factory method in the repository. Respects object locking. Will throw an exception if an object is modified under us.

5.16.2 Constructor & Destructor Documentation

5.16.2.1 FedoraObject::__construct(\$ id, FedoraRepository\$ repository)

The class constructor.

Should be instantiated by the repository.

Reimplemented from AbstractFedoraObject.

```
5.16.3 Member Function Documentation
5.16.3.1 FedoraObject::constructDatastream ( $ id, $ control_group = ' M' )
See also
    AbstractObject::constructDatastream()
Reimplemented from AbstractFedoraObject.
5.16.3.2 FedoraObject::count()
See also
    Countable::count
5.16.3.3 FedoraObject::createdDateMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractObject::createdDate
5.16.3.4 FedoraObject::getDatastream ( $ id )
See also
    AbstractObject::getDatastream()
Reimplemented from AbstractObject.
5.16.3.5 FedoraObject::ingestDatastream ( &$ ds )
See also
    AbstractObject::ingestDatastream()
Reimplemented from AbstractObject.
5.16.3.6 FedoraObject::labelMagicProperty($ function, $ value) [protected]
See also
    AbstractObject::label
Reimplemented from AbstractFedoraObject.
```

```
5.16.3.7 FedoraObject::lastModifiedDateMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractObject::lastModifiedDate
5.16.3.8 FedoraObject::modelsMagicProperty ( $ function, $ value )
         [protected]
See also
    AbstractObject::models
5.16.3.9 FedoraObject::offsetExists ( $ offset )
See also
    ArrayAccess::offsetExists
5.16.3.10 FedoraObject::offsetGet ( $ offset )
See also
    ArrayAccess::offsetGet
5.16.3.11 FedoraObject::offsetSet( $ offset, $ value )
See also
    ArrayAccess::offsetSet
5.16.3.12 FedoraObject::offsetUnset ( $ offset )
See also
    ArrayAccess::offsetUnset
5.16.3.13 FedoraObject::ownerMagicProperty ( $ function, $ value )
          [protected]
See also
    AbstractObject::owner
Reimplemented from AbstractFedoraObject.
```

5.16.3.14 FedoraObject::purgeDatastream (\$ id)

Purge a datastream.

Parameters

string	\$id	The id of hte datastream to purge.

Returns

boolean Returns TRUE on success and FALSE on failure.

Reimplemented from AbstractObject.

See also

AbstractObject::state

Reimplemented from AbstractFedoraObject.

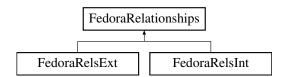
The documentation for this class was generated from the following file:

· Object.php

5.17 FedoraRelationships Class Reference

This is the base class for Fedora Relationships.

Inheritance diagram for FedoraRelationships:



Public Member Functions

• __construct (array \$namespaces=NULL)

The constructor.

• registerNamespace (\$alias, \$uri)

Add a new namespace to the relationship xml.

Public Attributes

• \$datastream = NULL

Protected Member Functions

• getXpath (\$document)

This function returns a domXPath object with all the current namespaces already registered.

• getDom ()

Sets up a domdocument for the functions.

• updateDatastream (\$document)

This updates the associated datastreams content.

- internalAdd (\$subject, \$predicate_uri, \$predicate, \$object, \$literal=FALSE)

 Add a new relationship.
- getXpathResults (\$xpath_object, \$subject, \$predicate_uri, \$predicate, \$object, \$literal)

This function is used to create an xpath expression based on the input.

internalGet (\$subject, \$predicate_uri=NULL, \$predicate=NULL, \$object=NULL, \$literal=FALSE)

This function queries the relationships in the assocaited datastream.

• internalRemove (\$subject, \$predicate uri, \$predicate, \$object, \$literal=FALSE)

This function removes relationships that match the pattern from the datastream.

Protected Attributes

· \$namespaces

5.17.1 Detailed Description

This is the base class for Fedora Relationships.

Todo potentially we should validate the predicate URI

5.17.2 Constructor & Destructor Documentation

5.17.2.1 FedoraRelationships::__construct (array \$ namespaces = NULL)

The constructor.

This will usually be called by one of its subclasses.

Parameters

array	\$names-	An array of default namespaces.
	paces	

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5.17.3 Member Function Documentation

5.17.3.1 FedoraRelationships::getDom() [protected]

Sets up a domdocument for the functions.

Returns

DomDocument The domdocument to modify

5.17.3.2 FedoraRelationships::getXpath(\$ document) [protected]

This function returns a domXPath object with all the current namespaces already registered.

Returns

DomXPath The object

5.17.3.3 FedoraRelationships::getXpathResults (\$ xpath_object, \$ subject, \$ predicate_uri, \$ predicate, \$ object, \$ literal) [protected]

This function is used to create an xpath expression based on the input.

Returns

DOMNodeList The node list

5.17.3.4 FedoraRelationships::internalAdd(\$ subject, \$ predicate_uri, \$ predicate, \$ object, \$ literal = FALSE) [protected]

Add a new relationship.

Parameters

string	\$subject	The subject. This can be a PID, or a PID/DSID combo. This string does not contain the info:fedora/ part of the URI this is added automatically.
string	\$predicate	The URI to use as the namespace of the predicate
	uri	If you would like the XML to use a prefix instead of
		the full predicate call the FedoraRelationships::register-
		Namespace() function first.
string	\$predicate	The predicate tag to add.
string	\$object	The object for the relationship that is being created.
boolean	\$literal	Specifies if the object is a literal or not.

```
5.17.3.5 FedoraRelationships::internalGet($ subject, $ predicate_uri = NULL, $ predicate = NULL, $ object = NULL, $ literal = FALSE) [protected]
```

This function queries the relationships in the assocaited datastream.

Any parameter except for \$subject can be set to NULL to act as a wildcard. Calling with just \$subject will return all relationships.

Parameters

string	\$subject	The subject. This can be a PID, or a PID/DSID combo. This
		string does not contain the info:fedora/ part of the URI this
		is added automatically.
string	\$predicate	The URI to use as the namespace of the predicate. This is
	uri	ignored if predicate is NULL.
string	\$predicate	The predicate tag to filter by.
string	\$object	The object for the relationship to filter by.
boolean	\$literal	Defines if the \$object is a literal or not.

Returns

array This returns an indexed array with all the matching relationships. The array is of the form:

5.17.3.6 FedoraRelationships::internalRemove(\$ subject, \$ predicate_uri, \$ predicate, \$ object, \$ literal = FALSE) [protected]

This function removes relationships that match the pattern from the datastream.

Any parameter can be given as NULL which will make it a wildcard.

Parameters

string	\$subject	The subject. This can be a PID, or a PID/DSID combo. This string does not contain the info:fedora/ part of the URI this is added automatically.
string	\$predicate	The URI to use as the namespace of the predicate. This is
	uri	ignored if predicate is NULL.
string	\$predicate	The predicate tag to filter removed results by.
string	\$object	The object for the relationship to filter by.
boolean	\$literal	Defines if the \$object is a literal or not.

Returns

boolean TRUE if relationships were removed, FALSE otherwise.

5.17.3.7 FedoraRelationships::registerNamespace (\$ alias, \$ uri)

Add a new namespace to the relationship xml.

Doing this before adding new predicates with differnt URIs makes the XML look a little prettier.

Parameters

string	\$alias	The alias to add.
string	\$uri	The URI to associate with the alias.

5.17.4 Member Data Documentation

5.17.4.1 FedoraRelationships::\$namespaces [protected]

Initial value:

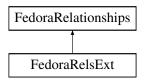
```
array(
   'rdf' => RDF_URI,
)
```

The documentation for this class was generated from the following file:

• FedoraRelationships.php

5.18 FedoraRelsExt Class Reference

Inheritance diagram for FedoraRelsExt:



Public Member Functions

• __construct (AbstractFedoraObject \$object)

Objects Construct!

add (\$predicate_uri, \$predicate, \$object, \$literal=FALSE)

Add a new relationship.

remove (\$predicate_uri=NULL, \$predicate=NULL, \$bject=NULL, \$literal=FALS-E)

This function removes relationships that match the pattern from the datastream.

• get (\$predicate_uri=NULL, \$predicate=NULL, \$object=NULL, \$literal=FALSE)

This function queries the relationships in the associated datastream.

Protected Member Functions

• initializeDatastream ()

Initialize the datastrem that we are using.

Protected Attributes

- \$new = FALSE
- \$initialized = FALSE

5.18.1 Constructor & Destructor Documentation

5.18.1.1 FedoraRelsExt::__construct (AbstractFedoraObject \$ object)

Objects Construct!

Parameters

-	\$object	The object whose relationships we are manipulating
Abstract-		
Fedora-		
Object		

5.18.2 Member Function Documentation

5.18.2.1 FedoraRelsExt::add (\$ predicate_uri, \$ predicate, \$ object, \$ literal = FALSE)

Add a new relationship.

Parameters

string	\$predicate	The URI to use as the namespace of the predicate
	uri	If you would like the XML to use a prefix instead of
		the full predicate call the FedoraRelationships::register-
		Namespace() function first.
string	\$predicate	The predicate tag to add.
string	\$object	The object for the relationship that is being created.
boolean	\$literal	Specifies if the object is a literal or not.

```
5.18.2.2 FedoraRelsExt::get($predicate_uri = NULL, $predicate = NULL, $object = NULL, $literal = FALSE)
```

This function queries the relationships in the assocaited datastream.

Any parameter except for \$subject can be set to NULL to act as a wildcard. Calling with just \$subject will return all relationships.

Parameters

string	\$predicate	The URI to use as the namespace of the predicate. This is
	uri	ignored if predicate is NULL.
string	\$predicate	The predicate tag to filter by.
string	\$object	The object for the relationship to filter by.
boolean	\$literal	Defines if the \$object is a literal or not.

Returns

array This returns an indexed array with all the matching relationships. The array is of the form:

)

5.18.2.3 FedoraRelsExt::initializeDatastream() [protected]

Initialize the datastrem that we are using.

We use this function to delay this as long as possible, in case it never has be be called.

This function removes relationships that match the pattern from the datastream.

Any parameter can be given as NULL which will make it a wildcard.

Parameters

string	\$predicate	The URI to use as the namespace of the predicate. This is
	uri	ignored if predicate is NULL.
string	\$predicate	The predicate tag to filter removed results by.
string	\$object	The object for the relationship to filter by.
boolean	\$literal	Defines if the \$object is a literal or not.

Returns

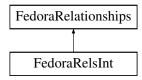
boolean TRUE if relationships were removed, FALSE otherwise.

The documentation for this class was generated from the following file:

FedoraRelationships.php

5.19 FedoraRelsInt Class Reference

Inheritance diagram for FedoraRelsInt:



Public Member Functions

__construct (AbstractFedoraDatastream \$datastream)
 Objects Construct!

- add (\$predicate_uri, \$predicate, \$object, \$literal=FALSE)
 Add a new relationship.
- remove (\$predicate_uri=NULL, \$predicate=NULL, \$bject=NULL, \$literal=FALS-E)

This function removes relationships that match the pattern from the datastream.

• get (\$predicate_uri=NULL, \$predicate=NULL, \$object=NULL, \$literal=FALSE)

This function queries the relationships in the assocaited datastream.

Protected Member Functions

• initializeDatastream ()

Delay initialization by waiting to set datastream with this function.

Protected Attributes

- \$new = FALSE
- \$initialized = FALSE
- \$aboutDs

5.19.1 Constructor & Destructor Documentation

5.19.1.1 FedoraRelsInt::__construct (AbstractFedoraDatastream \$ datastream)

Objects Construct!

Parameters

-	\$datastream	The datastream whose relationships we are manipulating
Abstract-		
Fedora-		
Object		

5.19.2 Member Function Documentation

5.19.2.1 FedoraRelsInt::add (\$ predicate_uri, \$ predicate, \$ object, \$ literal = FALSE)

Add a new relationship.

Parameters

string	\$predicate	The URI to use as the namespace of the predicate
	uri	If you would like the XML to use a prefix instead of
		the full predicate call the FedoraRelationships::register-
		Namespace() function first.
string	\$predicate	The predicate tag to add.
string	\$object	The object for the relationship that is being created.

boolean	\$literal	Specifies if the object is a literal or not.
---------	-----------	--

5.19.2.2 FedoraRelsInt::get (\$ predicate_uri = NULL, \$ predicate = NULL, \$ object = NULL, \$ literal = FALSE)

This function queries the relationships in the assocaited datastream.

Any parameter except for \$subject can be set to NULL to act as a wildcard. Calling with just \$subject will return all relationships.

Parameters

string	\$predicate	The URI to use as the namespace of the predicate. This is
	uri	ignored if predicate is NULL.
string	\$predicate	The predicate tag to filter by.
string	\$object	The object for the relationship to filter by.
boolean	\$literal	Defines if the \$object is a literal or not.

Returns

array This returns an indexed array with all the matching relationships. The array is of the form:

5.19.2.3 FedoraRelsInt::remove (\$ predicate_uri = NULL, \$ predicate = NULL, \$ object = NULL, \$ literal = FALSE)

This function removes relationships that match the pattern from the datastream.

Any parameter can be given as NULL which will make it a wildcard.

Parameters

string	\$predicate	The URI to use as the namespace of the predicate. This is
	uri	ignored if predicate is NULL.
string	\$predicate	The predicate tag to filter removed results by.
string	\$object	The object for the relationship to filter by.
boolean	\$literal	Defines if the \$object is a literal or not.

Returns

boolean TRUE if relationships were removed, FALSE otherwise.

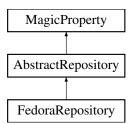
The documentation for this class was generated from the following file:

• FedoraRelationships.php

5.20 FedoraRepository Class Reference

Concrete implementation of the AbstractRepository for Fedora.

Inheritance diagram for FedoraRepository:



Public Member Functions

- __construct (FedoraApi \$api, AbstractCache \$cache)

 Constructor for the FedoraRepository Object.
- findObjects (array \$search)
- constructObject (\$id=NULL)
- ingestObject (NewFedoraObject &\$object)
- getObject (\$id)
- purgeObject (\$id)

Public Attributes

• \$ri

Protected Attributes

· \$cache

5.20.1 Detailed Description

Concrete implementation of the AbstractRepository for Fedora.

The parent class has more detailed documentation about how this class can be called as an Array.

See also

AbstractRepository

5.20.2 Constructor & Destructor Documentation

5.20.2.1 FedoraRepository::__construct (FedoraApi \$ api, AbstractCache \$ cache)

Constructor for the FedoraRepository Object.

Parameters

Fedora-	\$api	An instantiated FedoraAPI which will be used to connect to
Api		the repository.
-	\$cache	An instantiated AbstractCache which will be used to cache
Abstract-		fedora objects.
Cache		

5.20.3 Member Function Documentation

5.20.3.1 FedoraRepository::constructObject (id = NULL)

Todo validate the ID

catch the getNextPid errors

See also

AbstractRepository::constructObject

Reimplemented from AbstractRepository.

5.20.3.2 FedoraRepository::findObjects (array \$ search)

See also

AbstractRepository::findObjects

Reimplemented from AbstractRepository.

5.20.3.3 FedoraRepository::getObject(\$ id)

See also

AbstractRepository::ingestObject()

Todo perhaps we should check if an object exists instead of catching the exception

Reimplemented from AbstractRepository.

5.20.3.4 FedoraRepository::ingestObject (NewFedoraObject &\$ object)

See also

AbstractRepository::ingestObject()

Todo error handling

Reimplemented from AbstractRepository.

5.20.3.5 FedoraRepository::purgeObject (\$ id)

See also

AbstractRepository::purgeObject()

Reimplemented from AbstractRepository.

The documentation for this class was generated from the following file:

· Repository.php

5.21 FoxmlDocument Class Reference

Public Member Functions

- __construct (NewFedoraObject \$object)
- createDocumentDatastreams ()

Checks that the content and dsid are valid and then passes the FOXML creation off to the relevant function.

Public Attributes

- const **FOXML** = 'info:fedora/fedora-system:def/foxml#'
- const **xlink** = 'http://www.w3.org/1999/xlink'
- const xsi = 'http://www.w3.org/2001/XMLSchema-instance'
- const **xmlns** = 'http://www.w3.org/2000/xmlns/'
- const rdf = 'http://www.w3.org/1999/02/22-rdf-syntax-ns#'
- const rdfs = 'http://www.w3.org/2000/01/rdf-schema#'
- const **fedora** = 'info:fedora/fedora-system:def/relations-external#'
- const **dc** = 'http://purl.org/dc/elements/1.1/'
- const oai_dc = 'http://www.openarchives.org/OAI/2.0/oai_dc/'
- const fedora_model = 'info:fedora/fedora-system:def/model#'

Protected Attributes

- \$root
- \$object

5.21.1 Member Function Documentation

5.21.1.1 FoxmlDocument::createDocumentDatastreams()

Checks that the content and dsid are valid and then passes the FOXML creation off to the relevant function.

Currently any 'string' content that is marked as a managed datastream will be ingested as inline.

Todo Implement fedora upload function to allow strings to be added as managed datastreams

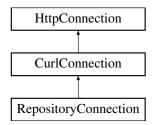
The documentation for this class was generated from the following file:

• FoxmlDocument.php

5.22 HttpConnection Class Reference

Abstract class defining functions for HTTP connections.

Inheritance diagram for HttpConnection:



Public Member Functions

- postRequest (\$url, \$type= 'none', \$data=NULL, \$content_type=NULL)

 Post a request to the server.
- getRequest (\$url)

Send a HTTP GET request to URL.

putRequest (\$url, \$type= 'none', \$file=NULL)

Send a HTTP PUT request to URL.

Public Attributes

- \$cookies = TRUE
- **\$username** = NULL
- \$password = NULL
- \$verifyHost = TRUE
- \$verifyPeer = TRUE
- \$timeout = NULL
- \$connectTimeout = 5
- \$userAgent = NULL
- \$reuseConnection = TRUE
- \$debug = FALSE

5.22.1 Detailed Description

Abstract class defining functions for HTTP connections.

5.22.2 Member Function Documentation

5.22.2.1 HttpConnection::getRequest(\$url) [abstract]

Send a HTTP GET request to URL.

Parameters

string	\$url	The URL to post the request to. Should start with the proto-
		col. For example: http://.

Exceptions

```
HttpConnection-
Exception
```

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented in CurlConnection, and RepositoryConnection.

Post a request to the server.

This is primarily used for sending files.

Todo Test this for posting general form data. (Other then files.)

Parameters

string	\$url	The URL to post the request to. Should start with the proto-
		col. For example: http://.
string	\$type	This paramerter must be one of: string, file.
string	\$data	What this parameter contains is decided by the \$type pa-
		rameter.
string	\$content	The content type header to set for the post request.
	type	

Exceptions

UttnConnaction	
HttpConnection-	
Exception	
-//00/01/	

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented in CurlConnection, and RepositoryConnection.

Send a HTTP PUT request to URL.

Parameters

string	\$url	The URL to post the request to. Should start with the proto-
		col. For example: http://.
string	\$type	This paramerter must be one of: string, file, none.
string	\$data	What this parameter contains is decided by the \$type pa-
		rameter.

Exceptions

HttpConnection-	
TitipConnection	
Fusantian	
Exception	

Returns

array Associative array containing: * \$return['status'] = The HTTP status code * \$return['headers'] = The HTTP headers of the reply * \$return['content'] = The body of the HTTP reply

Reimplemented in CurlConnection, and RepositoryConnection.

The documentation for this class was generated from the following file:

• HttpConnection.php

5.23 HttpConnectionException Class Reference

HTTP Exception.

Public Member Functions

- __construct (\$message, \$code, \$response=NULL, \$previous=NULL)

 The constructor for the exception.
- getResponse ()

Get the HTTP response that caused the exception.

Protected Attributes

• \$response

5.23.1 Detailed Description

HTTP Exception.

This is thrown when a status code other then 2XX is returned.

Parameters

string	\$message	A message describing the exception.
int	\$code	The error code. These are often the HTTP status codes,
		however less then 100 is defined by the class extending -
		HttpConnection, for eample cURL.
array	\$response	The array containing: status, headers, and content of the H-
		TTP request causing the error. This is only set if there was
		a HTTP response sent.

5.23.2 Constructor & Destructor Documentation

5.23.2.1 HttpConnectionException::__construct(\$ message, \$ code, \$ response = NULL, \$ previous = NULL)

The constructor for the exception.

Adds a response field.

Parameters

string	\$message	The error message
int	\$code	The error code
array	\$response	The HTTP response
-	\$previous	The previous exception in the chain
Exception		

5.23.3 Member Function Documentation

5.23.3.1 HttpConnectionException::getResponse()

Get the HTTP response that caused the exception.

Returns

array Array containing the HTTP response. It has three keys: status, headers and content.

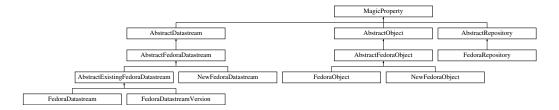
The documentation for this class was generated from the following file:

• HttpConnection.php

5.24 MagicProperty Class Reference

This abstract class allows us to implement PHP magic properties by defining a private method in the class that entends it.

Inheritance diagram for MagicProperty:



Public Member Functions

__get (\$name)

This implements the PHP __get function which is utilized for reading data from inaccessible properties.

• __isset (\$name)

This implments the PHP __isset function which is utilized for testing if data in inaccessable properties is set.

• __set (\$name, \$value)

This implements the PHP __set function which is utilized for setting inaccessable properties.

__unset (\$name)

This implements the PHP __unset function which is utilized for unsetting inaccessable properties.

Protected Member Functions

• getGeneralMagicPropertyMethodName (\$name)

Returns the name of the magic property.

5.24.1 Detailed Description

This abstract class allows us to implement PHP magic properties by defining a private method in the class that entends it.

It attemtps to make the magic properties behave as much like normal PHP properties as possible.

This code lets the user define a new method that will be called when a property is accessed. Any method that ends in MagicProperty is code that implements a magic property.

Usage Example

```
class MyClass extends MagicProperty {
 private $secret;
  protected function myExampleMagicProperty($function, $value) {
    switch($function) {
      case 'set':
       $secret = $value;
       return;
      case 'get':
        return $secret;
      case 'isset':
       return isset($secret);
      case 'unset':
       return unset ($secret);
    }
$test = new MyClass();
$test->myExample = 'woot';
print($test->myExample);
```

5.24.2 Member Function Documentation

5.24.2.1 MagicProperty::__get(\$ name)

This implements the PHP __get function which is utilized for reading data from inaccessible properties.

It wraps it by calling the appropriatly named method in the inherteting class. http-://php.net/manual/en/language.oop5.overloading.php

Parameters

string	\$name	The name of the function being called.
--------	--------	--

Returns

void The data returned from the property.

5.24.2.2 MagicProperty::__isset(\$ name)

This implments the PHP __isset function which is utilized for testing if data in inaccessable properties is set.

This function calls the approprietly named method in the inhereting class. http-://php.net/manual/en/language.oop5.overloading.php

Parameters

string	\$name	The name of the function being called.

Returns

boolean If the variable is set.

5.24.2.3 MagicProperty::__set(\$ name, \$ value)

This implements the PHP __set function which is utilized for setting inaccessable properties.

http://php.net/manual/en/language.oop5.overloading.php

Parameters

string	\$name	The property to set.
void	\$value	The value it should be set with.

5.24.2.4 MagicProperty::__unset(\$ name)

This implements the PHP __unset function which is utilized for unsetting inaccessable properties.

http://php.net/manual/en/language.oop5.overloading.php

Parameters

string	\$name	The property to unset	
--------	--------	-----------------------	--

$\begin{array}{ll} \textbf{5.24.2.5} & \textbf{MagicProperty::getGeneralMagicPropertyMethodName (\$ \textit{name} \texttt{)}} \\ & [\texttt{protected}] \end{array}$

Returns the name of the magic property.

Makes it easy to change what we use as the name.

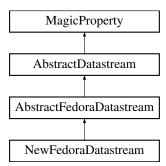
The documentation for this class was generated from the following file:

MagicProperty.php

5.25 NewFedoraDatastream Class Reference

This defines a new fedora datastream.

Inheritance diagram for NewFedoraDatastream:



Public Member Functions

 __construct (\$id, \$control_group, AbstractFedoraObject \$object, Fedora-Repository \$repository)

The constructor for a new fedora datastream.

- setContentFromFile (\$file)
- setContentFromUrl (\$url)
- setContentFromString (\$string)

Protected Member Functions

validateControlGroup (\$value)

Validates and normalizes the control group.

validateType (\$type)

Validates and normalizes the contentType.

- controlGroupMagicProperty (\$function, \$value)
- stateMagicProperty (\$function, \$value)
- labelMagicProperty (\$function, \$value)
- versionableMagicProperty (\$function, \$value)
- mimetypeMagicProperty (\$function, \$value)
- formatMagicProperty (\$function, \$value)
- checksumMagicProperty (\$function, \$value)
- checksumTypeMagicProperty (\$function, \$value)
- contentTypeMagicProperty (\$function, \$value)

Magic Property that creates NewFedoraDatastream->contentType.

- contentMagicProperty (\$function, \$value)
- urlMagicProperty (\$function, \$value)

5.25.1 Detailed Description

This defines a new fedora datastream.

This is the class used to contain the inforamtion for a new fedora datastream before it is ingested.

5.25.2 Constructor & Destructor Documentation

5.25.2.1 NewFedoraDatastream::__construct (\$ id, \$ control_group, AbstractFedoraObject \$ object, FedoraRepository \$ repository \$

The constructor for a new fedora datastream.

Parameters

string	\$id	The unique identifier of the DS.
Fedora-	\$object	The FedoraObject that this DS belongs to.
Object		
Fedora-	\$repository	The FedoraRepository that this DS belongs to.
Repositor	у	
string	\$control	The control group this DS will belong to.
	group	

Todo test for valid identifiers. it can't start with a number etc.

5.25.3 Member Function Documentation

 $\begin{array}{lll} \textbf{5.25.3.1} & \textbf{NewFedoraDatastream::checksumMagicProperty (\$ \textit{function}, \$ \textit{value} \)} \\ & & [\texttt{protected}] \end{array}$

See also

AbstractDatastream::checksum

Todo this should be refined a bit

5.25.3.2 NewFedoraDatastream::checksumTypeMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::checksumType

5.25.3.3 NewFedoraDatastream::contentMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::content

```
5.25.3.4 NewFedoraDatastream::contentTypeMagicProperty ( $ function, $ value )
[protected]
```

Magic Property that creates NewFedoraDatastream->contentType.

This getter/setter lets us access what type of datastream this is so that we can ingest it properly.

5.25.3.5 NewFedoraDatastream::controlGroupMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::controlGroup

Reimplemented from AbstractFedoraDatastream.

5.25.3.6 NewFedoraDatastream::formatMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::format

5.25.3.7 NewFedoraDatastream::labelMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::label

5.25.3.8 NewFedoraDatastream::mimetypeMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::mimetype

5.25.3.9 NewFedoraDatastream::setContentFromFile (\$ file)

See also

AbstractDatastream::setContentFromFile

Reimplemented from AbstractDatastream.

5.25.3.10 NewFedoraDatastream::setContentFromString (\$ string)

See also

AbstractDatastream::setContentFromString

Reimplemented from AbstractDatastream.

5.25.3.11 NewFedoraDatastream::setContentFromUrl (\$ url)

See also

AbstractDatastream::setContentFromUrl

Reimplemented from AbstractDatastream.

5.25.3.12 NewFedoraDatastream::stateMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::state

5.25.3.13 NewFedoraDatastream::urlMagicProperty (\$ function, \$ value)

[protected]

See also

AbstractDatastream::url

5.25.3.14 NewFedoraDatastream::validateControlGroup (\$ value) [protected]

Validates and normalizes the control group.

Parameters

string \$value The passed in control group.

Returns

mixed The stirng for hte controlgroup or FALSE if validation fails.

5.25.3.15 NewFedoraDatastream::validateType(\$type) [protected]

Validates and normalizes the contentType.

Parameters

string	\$type	The passed in value for type.

Returns

mixed The stirng for the type or FALSE if validation fails.

5.25.3.16 NewFedoraDatastream::versionableMagicProperty (\$ function, \$ value) [protected]

See also

AbstractDatastream::versionable

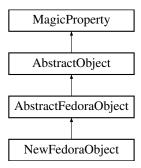
The documentation for this class was generated from the following file:

· Datastream.php

5.26 NewFedoraObject Class Reference

This represents a new fedora object that hasn't been ingested yet.

Inheritance diagram for NewFedoraObject:



Public Member Functions

- __construct (\$id, FedoraRepository \$repository)
 - Constructoman!
- constructDatastream (\$id, \$control_group= 'M')
- ingestDatastream (&\$ds)

This function doesn't actually ingest the datastream, it just adds it to the queue to be ingested whenever this object is ingested.

- purgeDatastream (\$id)
- getDatastream (\$id)

- count ()
- offsetExists (\$offset)
- offsetGet (\$offset)
- offsetSet (\$offset, \$value)
- offsetUnset (\$offset)
- getIterator ()

Protected Attributes

• \$datastreams = array()

5.26.1 Detailed Description

This represents a new fedora object that hasn't been ingested yet.

It lets us pass around the object and add datastreams before we ingest it. This shouldn't be constructed on its own, it should only be created from a factory class.

```
5.26.2 Member Function Documentation
```

```
5.26.2.1 NewFedoraObject::constructDatastream ( $id, $control\_group = 'M'$)
```

See also

AbstractObject::constructDatastream()

Reimplemented from AbstractFedoraObject.

```
5.26.2.2 NewFedoraObject::count()
```

See also

Countable::count

5.26.2.3 NewFedoraObject::getDatastream (\$ id)

See also

AbstractObject::getDatastream()

Reimplemented from AbstractObject.

5.26.2.4 NewFedoraObject::getIterator()

See also

IteratorAggregate::getIterator()

5.26.2.5 NewFedoraObject::ingestDatastream (&\$ ds)

This function doesn't actually ingest the datastream, it just adds it to the queue to be ingested whenever this object is ingested.

See also

AbstractObject::ingestDatastream()

Parameters

New-	\$ds	the datastream to be ingested
Fedora-		
Datastrea	m	

Returns

mixed FALSE on failure otherwise a instantiated FedoraDatastream.

Reimplemented from AbstractObject.

5.26.2.6 NewFedoraObject::offsetExists (\$ offset)

See also

ArrayAccess::offsetExists

5.26.2.7 NewFedoraObject::offsetGet(\$ offset)

See also

ArrayAccess::offsetGet

5.26.2.8 NewFedoraObject::offsetSet (\$ offset, \$ value)

See also

ArrayAccess::offsetSet

5.26.2.9 NewFedoraObject::offsetUnset(\$ offset)

See also

ArrayAccess::offsetUnset

5.26.2.10 NewFedoraObject::purgeDatastream (\$ id)

See also

AbstractObject::purgeDatastream()

Reimplemented from AbstractObject.

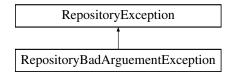
The documentation for this class was generated from the following file:

· Object.php

5.27 RepositoryBadArguementException Class Reference

This is thrown when a bad arguement is passed.

Inheritance diagram for RepositoryBadArguementException:



5.27.1 Detailed Description

This is thrown when a bad arguement is passed.

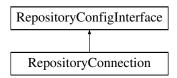
The documentation for this class was generated from the following file:

· RepositoryException.php

5.28 RepositoryConfigInterface Interface Reference

The general interface for a RepositoryConfig object.

Inheritance diagram for RepositoryConfigInterface:



Public Member Functions

__construct (\$url, \$username, \$password)
 Simple constructor definition for the repository.

5.28.1 Detailed Description

The general interface for a RepositoryConfig object.

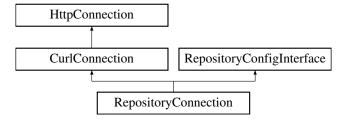
The documentation for this interface was generated from the following file:

· RepositoryConnection.php

5.29 RepositoryConnection Class Reference

Specific RepositoryConfig implementation that extends the CurlConnection class so that we can do specific processing on Curl requests for Fedora.

Inheritance diagram for RepositoryConnection:



Public Member Functions

__construct (\$url= 'http://localhost:8080/fedora', \$username=NULL, \$password=-NULL)

This constructor for the RepositoryConnection.

• addParamArray (&\$request, &\$seperator, \$params, \$name)

These functions are used a lot when connecting to Fedora to create the correct arguements for REST calls.

addParam (&\$request, &\$seperator, \$name, \$value)

This function adds a specific parameter to a RESTful request.

getRequest (\$url)

Do a get request.

- postRequest (\$url, \$type= 'none', \$data=NULL, \$content_type=NULL)
- putRequest (\$url, \$type= 'none', \$file=NULL)
- deleteRequest (\$url)

Public Attributes

- \$url
- · \$username
- · \$password

Protected Member Functions

• buildUrl (\$url)

This private function makes a fedora URL from a noraml URL.

• parseFedoraExceptions (\$e)

This function attempts to parse the exceptions that are recieved from Fedora into something more reasonable.

5.29.1 Detailed Description

Specific RepositoryConfig implementation that extends the CurlConnection class so that we can do specific processing on Curl requests for Fedora.

This also wraps the exceptions thrown by Curl, so that we keep our exception encapsulation.

It also doesn't take urls but instead uses relative paths that it adds the fedora URL to. This makes is a bit easier to use. It also makes sure that we always send usernames and passwords.

5.29.2 Constructor & Destructor Documentation

```
5.29.2.1 RepositoryConnection::__construct( $ url = ' http://localhost-
:8080/fedora', $ username = NULL, $ password = NULL
)
```

This constructor for the RepositoryConnection.

Parameters

string	\$url	The URL to Fedora.
string	\$username	The username to connect with.
string	\$password	The password to connect with.

Implements RepositoryConfigInterface.

5.29.3 Member Function Documentation

5.29.3.1 RepositoryConnection::addParam (&\$ request, &\$ seperator, \$ name, \$ value)

This function adds a specific parameter to a RESTful request.

It makes sure that PHP booleans are changes into true and false and that the parameters are properly URL encoded.

Parameters

string	\$request	The request that is being built.
character	\$seperator	This is a helper to make sure that the first arguement gets a
		? and the rest of them get a &.
string	\$name	The name of the parameter that is being added
string	\$value	the value of hte parameter.

5.29.3.2 RepositoryConnection::addParamArray (&\$ request, &\$ seperator, \$ params, \$ name)

These functions are used a lot when connecting to Fedora to create the correct arguements for REST calls.

This will encode and add an array of arguements to a request URL.

Parameters

string	\$request	The request that is being built.
character	\$seperator	This is a helper to make sure that the first arguement gets a
		? and the rest of them get a &.
array	\$params	An array of parameters.
string	\$name	The name of the parameter that we are adding.

5.29.3.3 RepositoryConnection::deleteRequest (\$ url)

See also

CurlConnection::deleteRequest()

Reimplemented from CurlConnection.

5.29.3.4 RepositoryConnection::getRequest (\$ url)

Do a get request.

Parameters

string	\$url	The URL relative to the fedora path to use.

Returns

array The contents of the get request

See also

CurlConnection::getRequest()

Reimplemented from CurlConnection.

5.29.3.5 RepositoryConnection::parseFedoraExceptions(\$e) [protected]

This function attempts to parse the exceptions that are recieved from Fedora into something more reasonable.

This it very hard since really things like this are garbage in garbage out, but we do what we can.

Parameters

-	\$e	The exception being parsed
Exception		

5.29.3.6 RepositoryConnection::postRequest (\$ url, \$ type = ' none', \$ data = NULL, \$ content_type = NULL)

See also

CurlConnection::postRequest()

Reimplemented from CurlConnection.

5.29.3.7 RepositoryConnection::putRequest (\$ url, \$ type = ' none', \$ file = NULL)

See also

CurlConnection::putRequest()

Reimplemented from CurlConnection.

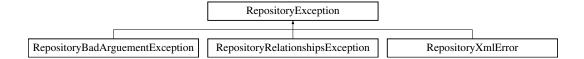
The documentation for this class was generated from the following file:

• RepositoryConnection.php

5.30 Repository Exception Class Reference

The top level exception for the Islandora Fedora API.

Inheritance diagram for RepositoryException:



5.30.1 Detailed Description

The top level exception for the Islandora Fedora API.

The documentation for this class was generated from the following file:

· RepositoryException.php

5.31 RepositoryQuery Class Reference

Public Member Functions

__construct (RepositoryConnection \$connection)

Construct a new RI object.

• query (\$query, \$type= 'itql', \$limit=-1, \$offset=0)

Performs the given Resource Index guery and return the results.

• itqlQuery (\$query, \$limit=-1, \$offset=0)

Thin wrapper for self::_performRiQuery().

• sparqlQuery (\$query, \$limit=-1, \$offset=0)

Thin wrapper for self::performRiQuery().

Static Public Member Functions

• static parseSparqlResults (\$sparql)

Parse the passed in Sparql XML string into a more easily usable format.

Public Attributes

• \$connection

Static Protected Member Functions

static pidUriToBarePid (\$uri)
 Utility function used in self::performRiQuery().

5.31.1 Constructor & Destructor Documentation

5.31.1.1 RepositoryQuery::__construct (RepositoryConnection \$ connection)

Construct a new RI object.

Parameters

-	\$connection	The connection to connect to the RI with.
Repositor	y -	
Connection	n	

5.31.2 Member Function Documentation

5.31.2.1 RepositoryQuery::itqlQuery (query, limit = -1, offset = 0)

Thin wrapper for self::_performRiQuery().

See also

self::performRiQuery()

5.31.2.2 static Repository Query::parseSparqlResults (\$ sparql) [static]

Parse the passed in Sparql XML string into a more easily usable format.

Parameters

string	\$sparql	A string containing Sparql result XML.

Returns

array Indexed (numerical) array, containing a number of associative arrays, with keys being the same as the variable names in the query. URIs beginning with 'info:fedora/' will have this beginning stripped off, to facilitate their use as PIDs.

Utility function used in self::performRiQuery().

Strips off the 'info:fedora/' prefix from the passed in string.

Parameters

string	\$uri	A string containing a URI.

Returns

string The input string less the 'info:fedora/' prefix (if it has it). The original string otherwise.

5.31.2.4 RepositoryQuery::query (query, type = 'itql', limit = -1, offset = 0)

Performs the given Resource Index query and return the results.

Parameters

string	\$query	A string containing the RI query to perform.
string	\$type	The type of query to perform, as used by the risearch inter-
		face.
int	\$limit	An integer, used to limit the number of results to return.
int	\$offset	An integer, used to offset the results (results should be or-
		dered, to maintain consistency.

Returns

array Indexed (numerical) array, containing a number of associative arrays, with keys being the same as the variable names in the query. URIs beginning with 'info:fedora/' will have this beginning stripped off, to facilitate their use as PIDs.

5.31.2.5 RepositoryQuery::sparqlQuery (query, limit = -1, offset = 0)

Thin wrapper for self::performRiQuery().

See also

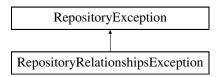
self::_performRiQuery()

The documentation for this class was generated from the following file:

· RepositoryQuery.php

5.32 RepositoryRelationshipsException Class Reference

This is thrown from the relationships class when something goes wrong. Inheritance diagram for RepositoryRelationshipsException:



5.32.1 Detailed Description

This is thrown from the relationships class when something goes wrong.

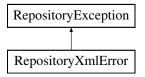
The documentation for this class was generated from the following file:

• RepositoryException.php

5.33 RepositoryXmlError Class Reference

This is thrown when there is an error parsing XML.

Inheritance diagram for RepositoryXmlError:



Public Member Functions

__construct (\$message, \$code, \$errors, \$previous=NULL)

Same as the default exception constructor except it takes another parameter errors, this is the error returned by the xml parser.

Public Attributes

• \$errors

5.33.1 Detailed Description

This is thrown when there is an error parsing XML.

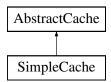
The documentation for this class was generated from the following file:

· RepositoryException.php

5.34 SimpleCache Class Reference

This is a simple cache that uses a static array to hold the cached values.

Inheritance diagram for SimpleCache:



Public Member Functions

- get (\$key)
- add (\$key, \$data)
- set (\$key, \$data)
- delete (\$key)

Static Public Member Functions

• static setCacheSize (\$size)

Set the cache size for the cache.

static resetCache ()

Reset the cache flushing it and returning it to its default size.

Public Attributes

• const CACHESIZE = 100

Static Protected Attributes

- static **\$cache** = array()
- static **\$entries** = array()
- static **\$size** = SimpleCache::CACHESIZE

5.34.1 Detailed Description

This is a simple cache that uses a static array to hold the cached values.

This means that it will cache across instantiations in the same PHP runtime but not across runtimes. The cache has 100 slots and uses a simple LIFO caching strategy.

Todo Replace this with something more interesting like memcached Try some other intersting caching strategies like LRU.

5.34.2 Member Function Documentation

5.34.2.1 SimpleCache::add (\$ key, \$ data)

See also

AbstractCache::add

Reimplemented from AbstractCache.

5.34.2.2 SimpleCache::delete (\$ key)

See also

AbstractCache::delete

Reimplemented from AbstractCache.

5.34.2.3 SimpleCache::get(\$ key)

See also

AbstractCache::get

Reimplemented from AbstractCache.

5.34.2.4 SimpleCache::set (\$ key, \$ data)

See also

AbstractCache::set

Reimplemented from AbstractCache.

5.34.2.5 static SimpleCache::setCacheSize(\$ size) [static]

Set the cache size for the cache.

If the size if bigger the cache size is just made bigger. If its smaller, the cache is flushed and the cache size is made smaller.

Parameters

int	\$size	The new size of the cache.
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The documentation for this class was generated from the following file:

· Cache.php

Chapter 6

File Documentation

6.1 Cache.php File Reference

Simple set of classes defining caches.

Classes

class AbstractCache

Simple abstract Cache defintion providing basic key value caching functionality.

class SimpleCache

This is a simple cache that uses a static array to hold the cached values.

6.1.1 Detailed Description

Simple set of classes defining caches. An abstract cache is defined so that we can use a more interesting caching setup in the future like memcached or the native drupal cache.

6.2 Datastream.php File Reference

This file defines all the classes used to manipulate datastreams in the repository.

Classes

• class AbstractDatastream

This abstract class can be overriden by anything implementing a datastream.

class AbstractFedoraDatastream

Abstract base class implementing a datastream in Fedora.

· class NewFedoraDatastream

This defines a new fedora datastream.

· class AbstractExistingFedoraDatastream

This abstract class defines some shared functionality between all classes that implement exising fedora datastreams.

· class FedoraDatastreamVersion

This class implements an old version of a fedora datastream.

· class FedoraDatastream

This class implements a fedora datastream.

6.2.1 Detailed Description

This file defines all the classes used to manipulate datastreams in the repository.

6.3 FedoraApi.php File Reference

The RAW API wrappers for the Fedora interface.

Classes

· class FedoraApi

This is a simple class that brings FedoraApiM and FedoraApiA together.

· class FedoraApiA

This class implements the Fedora API-A interface.

class FedoraApiM

This class implements the Fedora API-M interface.

6.3.1 Detailed Description

The RAW API wrappers for the Fedora interface. This file currently contains fairly raw wrappers around the Fedora REST interface. These could also be reinmplemented to use for example the Fedora SOAP interface. If there are version specific modifications to be made for Fedora, this is the place to make them.

6.4 FedoraApiSerializer.php File Reference

This file contains functions to serialize the XML responses from Fedora into something more easily dealt with in PHP.

Classes

· class FedoraApiSerializer

A class to Serialize the XML responses from Fedora into PHP arrays.

6.4.1 Detailed Description

This file contains functions to serialize the XML responses from Fedora into something more easily dealt with in PHP.

6.5 FedoraRelationships.php File Reference

This file defines the classes that are used for manipulaing the fedora relationships datastreams.

Classes

· class FedoraRelationships

This is the base class for Fedora Relationships.

- class FedoraRelsExt
- · class FedoraReIsInt

Enumerations

- enum XMLNS
- enum RDF_URI
- enum FEDORA_RELS_EXT_URI
- enum FEDORA_MODEL_URI
- enum ISLANDORA_RELS_EXT_URI
- enum ISLANDORA_RELS_INT_URI

6.5.1 Detailed Description

This file defines the classes that are used for manipulaing the fedora relationships datastreams.

6.6 HttpConnection.php File Reference

This file defines the classes used to make HTTP requests.

Classes

· class HttpConnectionException

HTTP Exception.

· class HttpConnection

Abstract class defining functions for HTTP connections.

• class CurlConnection

This class defines a abstract HttpConnection using the PHP cURL library.

6.6.1 Detailed Description

This file defines the classes used to make HTTP requests.

6.7 MagicProperty.php File Reference

This file contains the class MagicProperty.

Classes

• class MagicProperty

This abstract class allows us to implement PHP magic properties by defining a private method in the class that entends it.

6.7.1 Detailed Description

This file contains the class MagicProperty.

6.8 Object.php File Reference

This file contains all of the functionality for objects in the repository.

Classes

· class AbstractObject

An abstract class defining a Object in the repository.

class AbstractFedoraObject

This is the base class for a Fedora Object.

· class NewFedoraObject

This represents a new fedora object that hasn't been ingested yet.

class FedoraObject

Represents a Fedora Object.

6.8.1 Detailed Description

This file contains all of the functionality for objects in the repository.

6.9 Repository.php File Reference

This file defines an abstract repository that can be overridden and also defines a concrete implementation for Fedora.

Classes

class AbstractRepository

An abstract repository interface.

· class FedoraRepository

Concrete implementation of the AbstractRepository for Fedora.

6.9.1 Detailed Description

This file defines an abstract repository that can be overridden and also defines a concrete implementation for Fedora.

6.10 RepositoryConnection.php File Reference

This file contains the implementation of a connection to Fedora.

Classes

• interface RepositoryConfigInterface

The general interface for a RepositoryConfig object.

• class RepositoryConnection

Specific RepositoryConfig implementation that extends the CurlConnection class so that we can do specific processing on Curl requests for Fedora.

6.10.1 Detailed Description

This file contains the implementation of a connection to Fedora. And the interface for a repository configuration.

6.11 RepositoryException.php File Reference

Contains all of the exceptions thrown by Tuque.

Classes

· class RepositoryException

The top level exception for the Islandora Fedora API.

· class RepositoryXmlError

This is thrown when there is an error parsing XML.

class RepositoryBadArguementException

This is thrown when a bad arguement is passed.

class RepositoryRelationshipsException

This is thrown from the relationships class when something goes wrong.

6.11.1 Detailed Description

Contains all of the exceptions thrown by Tuque.

6.12 RepositoryQuery.php File Reference

This file provides some methods for doing RDF queries.

Classes

class RepositoryQuery

6.12.1 Detailed Description

This file provides some methods for doing RDF queries. The essance of this file was taken from some commits that Adam Vessy made to Islandora 6.x, so I'd like to give him some credit here.