**sakai-kernel-api**

org.apache.commons.dbcp

Class SakaiBasicDataSource

public class SakaiBasicDataSource

extends org.apache.commons.dbcp.BasicDataSource

SakaiBasicDataSource extends apache common's BasicDataSource ...

### setConnectionProperties

public void setConnectionProperties(java.lang.String connectionProperties)

Sets the connection properties passed to driver.connect(...). Format of the string must be [propertyName=property;]\* NOTE - The "user" and "password" properties will be added explicitly, so they do not need to be included here.

Parameters:

connectionProperties - the connection properties used to create new connections

### setDefaultTransactionIsolationString

public void setDefaultTransactionIsolationString(java.lang.String defaultTransactionIsolation)

Set the default transaction isolation level from a string value, based on the settings and values in java.sql.Connection

Parameters:

defaultTransactionIsolation -

### setRollbackOnBorrow

public void setRollbackOnBorrow(boolean value)

Set the rollback on borrow configuration.

Parameters:

value - if true, rollback each connection when borrowed from the pool, if false, do not.

org.sakaiproject.alias.api

public interface AliasService

extends [EntityProducer](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\EntityProducer.html)

AliasService provides a single unque namespace where Sakai entities can have alternate case-insenstive names.

Package org.sakaiproject.antivirus.api

public interface VirusScanner

provide virus scanning capabilities 

### getEnabled

boolean getEnabled()

check whether the virus scanner is enabled

Returns:

true if virus scanning can be performed

### scan

void scan(byte[] bytes)

throws [VirusFoundException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusFoundException.html),

[VirusScanIncompleteException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusScanIncompleteException.html)

scan byte array for a virus

Parameters:

bytes -

Throws:

[VirusFoundException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusFoundException.html) - if a virus was found

[VirusScanIncompleteException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusScanIncompleteException.html) - if virus scan was not completed due to an error

### scanContent

void scanContent(java.lang.String resourceId)

throws [VirusFoundException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusFoundException.html),

[VirusScanIncompleteException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusScanIncompleteException.html)

Scan a item from content hosting service

Parameters:

resourceId - a resource if for an item in contenthosting e.g /content/a434234sdfghsdf

Throws:

[VirusFoundException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusFoundException.html)

[VirusScanIncompleteException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusScanIncompleteException.html)

Package org.sakaiproject.authz.api

public interface AuthzGroup

extends [Edit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\Edit.html), java.lang.Comparable, java.io.Serializable

AuthzGroup is a authorization group; a group of users, each with a role, and a set of permissions of functions made to each role.

AuthzGroups can related to Entities in Sakai; The entity reference forms the AuthzGroup id.

Special AuthzGroups not related to an entity have ids that begin with a "!".

public interface AuthzGroupService

extends [EntityProducer](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\EntityProducer.html)

AuthzGroupService manages authorization groups. This service allows you to check if a user is allowed to perform a particular function in a context.

This service doesn't do any checking that the the user IDs that are return are still valid. As if a user is deleted or no longer exists in a provider the entries in the AuthzGroupService will still exist. If the calling code needs to make sure a user is valid it should check with the [UserDirectoryService](file:///C:\\Users\\administrator\\workspacefreeware\\kernel\\doc\\org\\sakaiproject\\user\\api\\UserDirectoryService.html" \o "interface in org.sakaiproject.user.api). Ideally deleted user records should get tidied up, but at the moment that don't.

public interface FunctionManager

FunctionManager is the API for the service that manages security function registrations from the various Sakai applications.

public interface SecurityAdvisor

SecurityAdvisor is a stackable policy process that is given a chance to determine if a security question can be answered,over the logic of the SecurityService component. The advisors at the top of the stack are consulted first (added last).

public interface SecurityService

SecurityService is the interface for Sakai security services.

public static class SecurityAdvisor.SecurityAdvice

extends java.lang.Object

SecurityAdvice enumerates different SecurityAdvisor results.

### ALLOWED

public static final [SecurityAdvisor.SecurityAdvice](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\authz\api\SecurityAdvisor.SecurityAdvice.html) ALLOWED

Security result that indicates the end user is allowed the function.

### NOT\_ALLOWED

public static final [SecurityAdvisor.SecurityAdvice](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\authz\api\SecurityAdvisor.SecurityAdvice.html) NOT\_ALLOWED

Security result that indicates the end user is NOT allowed the function.

### PASS

public static final [SecurityAdvisor.SecurityAdvice](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\authz\api\SecurityAdvisor.SecurityAdvice.html) PASS

Security result that indicates the SecurityAdvisor cannot answer the question.

org.sakaiproject.cluster.api

public interface ClusterService

ClusterService keeps track of running Sakai instances in a Sakai application server cluster.

Package org.sakaiproject.component.impl

public class BasicConfigurationService

extends java.lang.Object

implements org.sakaiproject.component.api.ServerConfigurationService, org.springframework.context.ApplicationContextAware

BasicConfigurationService is a basic implementation of the ServerConfigurationService.

Package org.sakaiproject.conditions.api

public interface ConditionProvider

interface to specify the contract for a service to make conditions available to any other tool or service

public interface ConditionService

Facilities for creating and storing conditions to be evaluated at some future point in time

Package org.sakaiproject.content.api.providers

public interface SiteContentAdvisor

Advises on settings for the site

Package org.sakaiproject.db.api

public interface SqlReader

SqlReader is the Interface for objects that can read stuff from a SQL request ResultSet.

public interface SqlService

SqlService provides access to pooled Connections to Sql databases.

The Connection objects managed by this service are standard java.sql.Connection objects.

Package org.sakaiproject.email.api

public class EmailAddress

extends java.lang.Object

Value object for email address properties. Mimics javax.mail.internet.InternetAddress requiring a dependency on javax.mail by client code.

public class EmailMessage

extends java.lang.Object

Value object for sending emails. Mimics javax.mail.internet.MimeMessage without having a dependency on javax.mail

Sending a message can be done by specifying recipients and/or actual recipients. If only recipients (to, cc, bcc) are specified, those are the people that will recieve the message and will see each other listed in the to, cc and bcc fields. If actual recipients are specified, any other recipients will be ignored but will be added to the email headers appropriately. This allows for mailing to lists and hiding recipients (recipients: mylist@somedomain.edu, actualRecipients: [long list of students].

Package org.sakaiproject.entity.api

public interface Entity

Entity is the generic interface for all information units modeled in Sakai.

public interface EntityManager

EntityManager is the API for managing EntityProducer services / managers.

public interface EntityProducer

Services which implement EntityProducer declare themselves as producers of Sakai entities.

Package org.sakaiproject.event.api

public interface ActivityService

ActivityService provides the ability to check if users are online and when they were last active.

Users are registered and updated each time they publish an event. As such you can tell if a user is active and when they were last active (last event time).

public interface Event

Event represents a single significant activity by the end-user.

public interface UsageSessionService

UsageSessionService keeps track of usage sessions.

Package org.sakaiproject.exception

## This package provides common exceptions for the Sakai Service APIs. Package org.sakaiproject.i18n

public interface InternationalizedMessages

extends java.util.Map

InternationalizedMessages is a bundle of message implementations for many locales.

Package org.sakaiproject.id.api

public interface IdManager

IdManager is the work interface for the Sakai Id Manager API to generates unique ids.

Package org.sakaiproject.id.hbm

public class IdGenerator

extends java.lang.Object

implements org.hibernate.id.IdentifierGenerator

Creates unique identifiers for hibernate based on the Sakai IdManager

Package org.sakaiproject.memory.api

public interface Cache

extends [Cacher](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\memory\api\Cacher.html)

A Cache holds objects with keys with a limited lifespan.

When the object expires, the cache may call upon a CacheRefresher to update the key's value. The update is done in a separate thread.

public interface CacheRefresher

Utility API for classes that will refresh a cache entry when expired.

public interface MemoryService

MemoryService is the interface for the Sakai Memory service.

This tracks memory users (cachers), runs a periodic garbage collection to keep memory available, and can be asked to report memory usage.

Package org.sakaiproject.messagebundle.api

public interface MessageBundleService

This interface is used to manage message bundle data in the system.

public class MessageBundleProperty

extends java.lang.Object

Created by IntelliJ IDEA

Package org.sakaiproject.site.api

public interface Group

extends [Edit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\Edit.html), java.io.Serializable, [AuthzGroup](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\authz\api\AuthzGroup.html)

A Site Group is a way to divide up a Site into separate units, each with its own authorization group and descriptive information.

public interface Site

extends [Edit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\Edit.html), java.lang.Comparable, java.io.Serializable, [AuthzGroup](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\authz\api\AuthzGroup.html)

Site is the object that knows the information, tools and layouts for a Sakai Site.

public interface SiteService

extends [EntityProducer](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\EntityProducer.html)

SiteService manages Sites.

public interface SitePage

extends [Edit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\Edit.html), java.io.Serializable

A Site Page is grouping of tools in a Site.

public interface SiteAdvisor

A SiteAdvisor may be registered with the SiteService, and will be called immediately priory to a site being saved. A SiteAdvisor allows custom code to make changes to a site, depending on its state immediately before the changes to the site are committed.

public interface ToolConfiguration

extends [Placement](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\tool\api\Placement.html), java.io.Serializable

ToolConfiguration is a the placement of a tool on a site page; a placement with layout information.

Package org.sakaiproject.thread\_local.api

public interface ThreadBound

Objects that are added to a ThreadLocalManager, that implement this method will have the unbind method called when the object is ejected from the thread local

public interface ThreadLocalManager

ThreadLocalManager provides registration and discovery of objects bound to the "current" request processing or thread.

Clients who have objects to bind can set/get them at will - the Sakai Framework assures that the entire set of objects bound to current are cleared when the request processing is complete.

Package org.sakaiproject.time.api

public interface TimeRange

extends java.lang.Cloneable

### adjust

void adjust([TimeRange](file:///C:\\Users\\administrator\\workspacefreeware\\kernel\\doc\\org\\sakaiproject\\time\\api\\TimeRange.html" \o "interface in org.sakaiproject.time.api) original,

[TimeRange](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\time\api\TimeRange.html) modified)

Adjust this time range based on the difference between the origRange and the modRange, if any.

Parameters:

original - the original time range.

modified - the modified time range.

### contains

boolean contains(org.sakaiproject.time.api.Time time)

Check if this Time in my range.

Parameters:

time - The time to check for inclusion.

Returns:

true if the time is in the range, false if not.

public interface TimeService

### clearLocalTimeZone

boolean clearLocalTimeZone(java.lang.String userId)

Clear local time zone for specified user

Returns:

true if successful

### getCalendar

java.util.GregorianCalendar getCalendar(java.util.TimeZone zone,

int year,

int month,

int day,

int hour,

int min,

int second,

int ms)

Get a Calendar, set to this zone and these values.

Parameters:

zone - The TimeZone for the calendar.

year - full year (i.e. 1999, 2000)

month - month in year (1..12)

day - day in month (1..31)

hour - hour in day (0..23)

min - minute in hour (0..59)

second - second in minute (0..59)

ms - millisecond in second (0..999)

### getLocalTimeZone

java.util.TimeZone getLocalTimeZone()

Access the users prefered local TimeZone.

Returns:

The user's local TimeZone.

Package org.sakaiproject.tool.api

public interface ActiveToolManager

extends [ToolManager](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\tool\api\ToolManager.html)

Extension API for ToolManager that introduces Servlet API specific activity.

public interface Session

Session models an end user's Sakai-wide usage session, modeled on the HttpSession of the Servlet API.

public interface SessionManager

SessionManager keeps track of Sakai-wide and Tool placement specific user sessions, modeled on the HttpSession of the Servlet API.

public interface Tool

Tool models a Sakai user interface producing tool. Tool and its attributes are immutable.

public interface ToolManager

ToolManager holds registration of Tools available in this Sakai installation.

public static class Tool.AccessSecurity

extends java.lang.Object

typesafe enumeration for access security.

Package org.sakaiproject.user.api

public interface AuthenticatedUserProvider

Indicates that the provider will provide user data along with authentication, allowing the user's authentication login name to differ from the user's enterprise integration ID (EID). This interface is tailored for institutions which pick up other provided user data as a side-effect of authentication. Authentication-only services would be better described through an AuthenticationEidProvider interface.

public interface UserDirectoryProvider

UserDirectoryProvider feeds external user information to the UserDirectoryService.

public interface User

extends [Entity](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\Entity.html), java.lang.Comparable

User models a Sakai end-user.

Package org.sakaiproject.util.api

public interface FormattedText

These Utils provide support for user entry of formatted text (typically HTML). This includes text formatting in user input such as bold, underline, and fonts. There are also utils which support other kinds of text processing (e.g. javascript) and escaping (e.g. SQL). Generally anything related to text which is not simply plaintext and has some kind of formatting.

Package org.sakaiproject.webapp.api

public interface WebappResourceManager

this interface allows a webapp to expose it's internal resources through the component manager. webapps may implement this interface to perform filtering, or there is a default implementation that can be used webapps should expose this with a bean id like: org.sakaiproject.component.api.WebappResourceManager.

## sakai-kernel-impl:

Package org.sakaiproject.alias.impl

public abstract class BaseAliasService

extends java.lang.Object

implements [AliasService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\alias\api\AliasService.html), [StorageUser](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\util\StorageUser.html)

### add

public [AliasEdit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\alias\api\AliasEdit.html) add(java.lang.String id)

throws [IdInvalidException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\exception\IdInvalidException.html),

[IdUsedException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\exception\IdUsedException.html),

[PermissionException](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\exception\PermissionException.html)

Add a new alias. Must commit() to make official, or cancel() when done!

Specified by:

[add](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\alias\api\AliasService.html#add(java.lang.String)) in interface [AliasService](file:///C:\\Users\\administrator\\workspacefreeware\\kernel\\doc\\org\\sakaiproject\\alias\\api\\AliasService.html" \o "interface in org.sakaiproject.alias.api)

Parameters:

id - The alias id.

Returns:

A locked AliasEdit object (reserving the id).

public abstract class DbAliasService

extends [BaseAliasService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\alias\impl\BaseAliasService.html)

DbAliasService is an extension of the BaseAliasService with a database storage. Fields are fully relational. Full properties are not yet supported - core ones are. Code to find and convert records from before, from the XML based CHEF\_ALIAS table is included.

Package org.sakaiproject.antivirus.impl

public class ClamAVScanner

extends java.lang.Object

implements [VirusScanner](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\antivirus\api\VirusScanner.html)

Provide virus scanning to email msgs & byte arrays using ClamAV software   
Creation Date: Mar 22, 2005

Provide the following properties in your sakai.properties to config and enable the scanner:

* virusScan.host=localhost
* virusScan.port=3310
* virusScan.enabled=true

Package org.sakaiproject.authz.impl

public abstract class SakaiSecurity

extends java.lang.Object

implements [SecurityService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\authz\api\SecurityService.html)

SakaiSecurity is a Sakai security service.

Package org.sakaiproject.cluster.impl

public class SakaiClusterService

extends java.lang.Object

implements [ClusterService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\cluster\api\ClusterService.html)

SakaiClusterService is a Sakai cluster service implementation.

public class SakaiClusterServiceSqlMsSql

extends [SakaiClusterServiceSqlDefault](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\cluster\impl\SakaiClusterServiceSqlDefault.html)

methods for accessing cluster data in an ms sql server database.

### getListExpiredServers

public java.lang.String getListExpiredServers(long timeout)

returns the sql statement for obtaining a list of expired sakai servers from the sakai\_cluster table.

Package org.sakaiproject.content.impl

public abstract class BaseContentService

extends java.lang.Object

implements [ContentHostingService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\content\api\ContentHostingService.html), [CacheRefresher](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\memory\api\CacheRefresher.html), [ContextObserver](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\ContextObserver.html), [EntityTransferrer](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\EntityTransferrer.html), [SiteContentAdvisorProvider](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\content\api\providers\SiteContentAdvisorProvider.html), [SiteContentAdvisorTypeRegistry](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\content\api\providers\SiteContentAdvisorTypeRegistry.html), [EntityTransferrerRefMigrator](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\EntityTransferrerRefMigrator.html)

BaseContentService is an abstract base implementation of the Sakai ContentHostingService.

Package org.sakaiproject.content.impl.serialize.impl

public class Type1BaseContentResourceSerializer

extends java.lang.Object

implements [EntitySerializer](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\serialize\EntitySerializer.html)

Serializes ContentResources using a Type1 block serializer, outputs a string with

char in the byte range 0-255 that can be saved in a CBLOB or BLOB or on file.

These MUST be saved as UTF8.

If you need to modify this class think very carefully about what data might be in production databases.

DO NOT add new fields to existing blocks

DO NOT remove fields from blocks.

If you need more structure add new unique blocks.

If you need to change the structure, create a Type2 class and change the Type number so that type 1

serializations continue to work.

The general structure of a serialization is

char 1-6 : BLOB\_ID identifying the blob.

First Int: Type Number (int)

Next Int: Block number identifying block

The contents and length of the block is determined by the serailizer writing the block

When the serializer has finished writing the block the next int should be the next block number.

BLOB\_ID's MUST be unique over all BLOBS.

TYPE Numbers MUST be unique within BLOBS of the same type

BLOCK Numbers MUST be unique within Types, but SHOULD be unique within BLOBS of the same type.

For variable lenght data, always serialize the length before the data. (eg number of elements, size of byte[])

For UTF Strings that are likely to be over 64K, you MUST serialize as lenght:UTF8byte[] as writeUTF will only

handle 64K

This structure is shared with the Type1CollectionSerializer

BLOCK1

General Attributes

BLOCK2

release and retract dates

BLOCK3 (varialble)

Groups

BLOCK4

Properties (managed by a seperate serializer

BLOCK5

File properties

BLOCK6

Byte[] of content (I do hope not!, should be in a seperate table or on the filesystem)

BLOCK\_END

Package org.sakaiproject.db.impl

public abstract class BasicSqlService

extends java.lang.Object

implements [SqlService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\db\api\SqlService.html)

BasicSqlService implements the SqlService.

public class BasicSqlServiceSqlMsSql

extends [BasicSqlServiceSqlDefault](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\db\impl\BasicSqlServiceSqlDefault.html)

methods for accessing sql service methods in an ms sql server database.

Package org.sakaiproject.entity.impl

public class EntityManagerComponent

extends java.lang.Object

implements [EntityManager](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\EntityManager.html)

EntityManagerComponent is an implementation of the EntityManager.

Package org.sakaiproject.event.impl

public abstract class BaseNotificationService

extends java.lang.Object

implements [NotificationService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\event\api\NotificationService.html), java.util.Observer, [StorageUser](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\util\StorageUser.html), [CacheRefresher](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\memory\api\CacheRefresher.html)

### addNotification

public [NotificationEdit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\event\api\NotificationEdit.html) addNotification()

Description copied from interface: [NotificationService](file:///C:\\Users\\administrator\\workspacefreeware\\kernel\\doc\\org\\sakaiproject\\event\\api\\NotificationService.html" \l "addNotification())

Establish a new notification, locked for edit. Must commitEdit() to make official, or cancelEdit() when done!

### addTransientNotification

public [NotificationEdit](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\event\api\NotificationEdit.html) addTransientNotification()

Description copied from interface: [NotificationService](file:///C:\\Users\\administrator\\workspacefreeware\\kernel\\doc\\org\\sakaiproject\\event\\api\\NotificationService.html" \l "addTransientNotification())

Establish a new transient notification. Transient notifications are processed by the service but not stored in storage. Modification to the notification can be done at any time, do not use edit(), commit() or remove() on it.

public class NotificationCache

extends java.lang.Object

implements [Cacher](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\memory\api\Cacher.html), java.util.Observer

A Cache of objects with keys with a limited lifespan.

When the object expires, the cache calls upon a CacheRefresher to update the key's value. The update is done in a separate thread.

Package org.sakaiproject.memory.impl

public abstract class BasicMemoryService

extends java.lang.Object

implements [MemoryService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\memory\api\MemoryService.html), java.util.Observer

MemBasicMemoryServiceoryService is an implementation for the MemoryService which reports memory usage and runs a periodic garbage collection to keep memory available.

public class CacheInitializer

extends java.lang.Object

Utility class to configure a cache. Could have used common beanutils but didn't want another library.

Package org.sakaiproject.messagebundle.impl

public class MessageBundleServiceImpl

extends org.springframework.orm.hibernate3.support.HibernateDaoSupport

implements [MessageBundleService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\messagebundle\api\MessageBundleService.html)

## Responsible for managing the message bundle data in a database. Provides search capabilities for finding keys based on values. Created by IntelliJ IDEAPackage org.sakaiproject.site.impl

public class BaseSite

extends java.lang.Object

implements [Site](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\site\api\Site.html)

BaseSite is a base implementation of the Site API Site.

public abstract class BaseSiteService

extends java.lang.Object

implements [SiteService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\site\api\SiteService.html), [StorageUser](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\util\StorageUser.html)

BaseSiteService is a base implementation of the SiteService.

public class BaseToolConfiguration

extends [Placement](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\util\Placement.html)

implements [ToolConfiguration](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\site\api\ToolConfiguration.html), [Identifiable](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\site\impl\Identifiable.html)

BaseToolConfiguration is an implementation of the Site API's ToolConfiguration.

Package org.sakaiproject.thread\_local.impl

public class ThreadLocalComponent

extends java.lang.Object

implements [ThreadLocalManager](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\thread_local\api\ThreadLocalManager.html)

ThreadLocalComponent provides the standard implementation of the Sakai Framework ThreadLocalManager.

### clear

public void clear()

Remove all objects bound to the current thread.

### get

public java.lang.Object get(java.lang.String name)

Find the named object bound to the current thread.

Package org.sakaiproject.time.impl

public class BasicTimeService

extends java.lang.Object

implements [TimeService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\time\api\TimeService.html)

BasicTimeService implements the Sakai TimeService

public class MyTime

extends java.lang.Object

implements org.sakaiproject.time.api.Time

MyTime is an implementation of the Time API Time.

Package org.sakaiproject.user.impl

public class AuthenticationCache

extends java.lang.Object

Because DAV clients do not understand the concept of secure sessions, a DAV user will end up asking Sakai to re-authenticate them for every action. To ease the overhead, this class checks a size-limited timing-out cache of one-way encrypted successful authentication IDs and passwords.

There's nothing DAV-specific about this class, and it's also independent of any Sakai classes other than the "Authentication" user ID and EID holder. We salt password so precomputed dictionaries can't be used against a dump of the authentication cache.

public abstract class BaseUserDirectoryService

extends java.lang.Object

implements [UserDirectoryService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\user\api\UserDirectoryService.html), [StorageUser](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\util\StorageUser.html), [UserFactory](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\user\api\UserFactory.html)

BaseUserDirectoryService is a Sakai user directory services implementation.

User records can be kept locally, in Sakai, externally, by a UserDirectoryProvider, or a mixture of both.

Each User that ever goes through Sakai is allocated a Sakai unique UUID. Even if we don't keep the User record in Sakai, we keep a map of this id to the external eid.

public abstract class DbUserService

extends [BaseUserDirectoryService](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\user\impl\BaseUserDirectoryService.html)

DbCachedUserService is an extension of the BaseUserService with a database storage backed up by an in-memory cache.

public class PasswordService

extends java.lang.Object

Service to check that a password matches and to generate encrypted passwords from plaintext. By default it's salted and SHA-256 digested.

Package org.sakaiproject.webapp.impl

public class WebappResourceManagerImpl

extends java.lang.Object

implements [WebappResourceManager](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\webapp\api\WebappResourceManager.html), org.springframework.context.ApplicationContextAware

Currently used by the portal and library projects to get access to the spring WAC Created by IntelliJ IDEA.

sakai-kernel-private:

Package org.sakaiproject.id.hbm

public class IdGenerator

extends java.lang.Object

implements org.hibernate.id.IdentifierGenerator

Creates unique identifiers for hibernate based on the Sakai IdManager

sakai-kernel-storage-util:

Package org.sakaiproject.content.util

public static interface BaseResourceAction.Localizer

Localizer provides a way for the registrant to take charge of localizing labels without extending BaseResourceAction. In defining actions, a registrant can create instances of BaseResourceAction, implement the Localizer interface with a method that provides localized strings, and set the localizer. Subsequent invocation of BaseResourceAction.getLabel() will use the Localizer to supply labels.

public class BaseInteractionAction

extends [BaseResourceAction](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\content\util\BaseResourceAction.html)

### cancelAction

public void cancelAction([Reference](file:///C:\Users\administrator\workspacefreeware\kernel\doc\org\sakaiproject\entity\api\Reference.html) reference,

java.lang.String initializationId)

ResourcesAction calls this method if the user cancels out of the action or some error occurs preventing completion of the action after the helper completes its part of the action.

Package org.sakaiproject.util

public class Blob

extends java.lang.Object

implements java.lang.Cloneable, java.io.Serializable

A blob is a Binary Large OBject. The Blob uses a linked list structure internally so it is not susceptible to running out of memory when growing. This can be a problem with very large Vectors -- when they grow, a new, larger internal array is created and elements copied over. Thus, for that short amount of time, there are two copies of the array. That, plus the added overhead of storing bytes in object form, make the Blob the preferrable method for storing raw data.