

DatabaseReader (2.1 legacy document)

Table of contents

1 Comments.....	5
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Table of contents

1 DatabaseReader.....	3
2 Description.....	3
3 Usage.....	3
3.1 Sitemap pipeline examples.....	3
3.2 Sitemap component configuration example.....	3
3.3 Configuration.....	4
3.4 Setup.....	4
3.5 Effect on Object Model and Sitemap Parameters.....	4
4 Bugs/Caveats.....	4
5 History.....	5
6 See also.....	5

Warning:

This document was copied as is from the Cocoon 2.1 documentation, but has not yet been fully reviewed or moved to its new home.

1. DatabaseReader

NAME	databasereader
WHAT	The DatabaseReader component is used to serve data from a database
TYPE	Reader, Sitemap Component
BLOCK	Database
CLASS	org.apache.cocoon.reading.DatabaseReader
SINCE	Cocoon 2.1
CACHEABLE	yes

2. Description

This Reader pulls a resource from a database. It is configured with the Connection to use, parameters specify the table and column to pull the image from, and source specifies the source key information.

3. Usage

3.1. Sitemap pipeline examples

The following pipeline snippet uses a Database Reader for serving *PNG* images from a database.

```
<map:match pattern="images/*.png"> <map:read type="databasereader" src="{1}"
mime-type="image/png"> <!-- option sitemap parameters --> <map:parameter name="table"
value="images"/> <map:parameter name="image" value="image"/> <map:parameter
name="key" value="name"/> <map:parameter name="where" value="publishing = 1"/>
<map:parameter name="order-by" value="created"/> <map:parameter name="last-modified"
value="last-modified"/> </map:read> </map:match>
```

The snippet above make following assumption about the database

- A database table images holds the *PNG* image data.
- The database table has image column storing the image data as BLOB.
- The database table has key column which must match the value of of {1}.
- The database table has publishing column indicating by value 1 that the image data is allowed to get published.
- The database table has created column, indicating the creation date of the image data, and used if the key is not a primary key, serving images in a LIFO fashion.
- The database table has last-modified column of type *TIMESTAMP* indicating the last modification date of the image data.

3.2. Sitemap component configuration example

```
<map:readers... <map:reader name="databasereader"
src="org.apache.cocoon.reading.DatabaseReader" logger="sitemap.reader.databasereader"
```

pool-max="32"/> <!-- optional reader configuration --> ... </map:readers> ...

3.3. Configuration

In the Database Reader declaration section following configuration options are available

Configurationname	Type	Comment
use-connection	Data source name	The name of a database selector, configured in the cocoon.xconf file.
invalidate	never always	This option configures the caching behaviour if lastModified has value of -1.

3.4. Setup

The DatabaseReader accepts following setup parameters

Parametername	Type	Comment
table	database table name	The database table name
image	database column name	The column name of the image data
key	database key column name	The key column name of the image data matching the src attribute of the <map:read> sitemap usage.
where	database where expression	Optional parameter specifying SQL where expression.
order-by	database order-by expression	Optional parameter specifying an SQL order-by expression.
last-modified	timestamp column name	Optional parameter a TIMESTAMP column name, added to the SELECT clause of the SQL query.
content-type	database column name	Optional parameter a column name, if specified the column value overrides the mime-type attribute of the <map:read> sitemap usage.

The key value is derived from the src attribute of the Database Reader usage..

The Database Reader builds internally following SQL query:

```
SELECT {image} [, last-modified] [, {order-by-column}] from {table} WHERE {key} = {src} [
AND {where}] [ORDER BY {order-by}]
```

3.5. Effect on Object Model and Sitemap Parameters

4. Bugs/Caveats

The Database Reader needs a datasource name, it is referenced by the configuration element use-connection. The datasource name has to be configured in the Cocoon database configuration cocoon.xconf.

If the parameter last-modified ends with " DESC" this suffix is truncated as it is appended to the SQL clause, noted as {order-by-column} in the SQL query snippet above.

5. History

12-25-02: created initial version by Bernhard Huber

6. See also

1. Comments

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