JA-SIG Conferences : uPortal Database Configuration

This page last changed on May 26, 2006 by susan.bramhall@yale.edu.

I. Start the database and verify that uPortal is configured to connect to it.

1. Go to the demo directory under hsqldb and run the runServer script (bat or sh) with the parameter -port 8887.

```
runServer -port 8887
```

2. Look at rdbm.properties for the connection definition to hsqldb. It is already set up to connect to hsqldb and includes comments for using other databases.
3. Right click build.xml again and select the target "dbtest". This should connect to the running hsqldb you just started and print out information about the database characteristics.

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sample DbTest output

Buildfile: K:\uPortal-101\workspace\uP101-writeable\build.xml
prepare:
compile:
dbtest:
echo Invoking DbTest
java Database name: 'HSQL Database Engine'
java Database version: '1.8.0'
java Driver name: 'HSQL Database Engine Driver'
java Driver version: '1.8.0'
java Driver class: 'org.hsqldb.jdbcDriver'
java Connection URL: 'jdbc:hsqldb:hsql://localhost:8887'
java User: 'sa'
java supportsANSI92EntryLevelSQL: false
java supportsANSI92FullSQL: false
java supportsCoreSQLGrammar: true
java supportsExtendedSQLGrammar: false
java supportsTransactions: true
java supportsMultipleTransactions: true
java supportsOpenCursorsAcrossCommit: false
java supportsOpenCursorsAcrossRollback: false
java supportsOpenStatementsAcrossCommit: true
java supportsOpenStatementsAcrossRollback: true
java supportsStoredProcedures: true
java supportsOuterJoins: true
java supportsFullOuterJoins: false
java supportsLimitedOuterJoins: true
java supportsBatchUpdates: true
java supportsColumnAliasing: true
java supportsExpressionsInOrderBy: true
java supportsOrderByUnrelated: true
java supportsPositionedDelete: false
java supportsSelectForUpdate: false

```
java supportsUnion: true
java supportsUnionAll: true
java getMaxColumnNameLength: 0
java getMaxColumnsInIndex: 0
java getMaxColumnsInOrderBy: 0
java getMaxColumnsInSelect: 0
java getMaxColumnsInTable: 0
java getMaxConnections: 0
java getMaxCursorNameLength: 0
java getMaxIndexLength: 0
java getMaxRowSize: 0
java getMaxStatements: 0
java getMaxTableNameLength: 0
java getMaxTablesInSelect: 0
java getMaxUserNameLength: 0
java getSearchStringEscape: \
java Table Types: GLOBAL TEMPORARY,SYSTEM TABLE,TABLE,VIEW
java SQL Types:
TINYINT,BIGINT,LONGVARBINARY,VARBINARY,BINARY,LONGVARCHAR,CHAR,NUMERIC,DECIMAL,INTEGER,SMALLINT,
DOUBLE,VARCHAR,VARCHAR_IGNORECASE,BOOLEAN,DATE,TIME,TIMESTAMP,OTHER
BUILD SUCCESSFUL
```

II Run "initportal"

Once again, right click build.xml and choose initportal. This will connect to the database and intialize it.
The table definitions and data are in xml files under properties/db in the files tables.xml and data.xml.
There is one additional configuration file here, dbloader.xml, which may need to be modified for a
database that uPortal has not yet encountered. Chances are, you won't need to do anything because the
required mappings for common database products are already there.

III Start Tomcat

From Eclipse, click on the start Tomcat icon in the top toolbar. You will see the console log.

IV Browse to http://localhost:8080/uPortal

From a browser you can go to uPortal now and should see the guest page displayed.

Log snippet from uPortal start up:

```
INFO [main] portal.RDBMServices.\[\] May/24 19:37:35 - Creating DataSource instance for
PortalDb
 INFO [main] rdbm.DatabaseMetaDataImpl.\[\] May/24 19:37:36 - Join test failed:
org.jasig.portal.rdbm.DatabaseMetaDataImpl$OracleDb with sql error:
'Unexpected token: USER_ID in statement [SELECT COUNT(UP_USER.USER_ID) FROM UP_USER,
UP_USER_LAYOUT WHERE UP_USER.USER_ID = UP_USER_LAYOUT.USER_ID(]' on statement: 'SELECT
COUNT(UP_USER.USER_ID) FROM UP_USER, UP_USER_LAYOUT WHERE UP_USER.USER_ID =
UP_USER_LAYOUT.USER_ID(+) AND UP_USER.USER_ID=0'
```

```
 INFO [main] rdbm.DatabaseMetaDataImpl.\[\] May/24 19:37:36 - Using join test:
org.jasig.portal.rdbm.DatabaseMetaDataImpl$PostgreSQLDb
 INFO [main] rdbm.DatabaseMetaDataImpl.\[\] May/24 19:37:36 - HSQL Database Engine (1.8.0) /
HSQL Database Engine Driver (1.8.0) database/driver
 Connected To: jdbc:hsqldb:hsql://localhost:8887
 Supports:
 Prepared Statements:   true
 Outer Joins:           true
 Transactions:          true
```