JA-SIG Conferences : uP101 Database Configuration

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⚠️ **An element of the uP101 pre-conference seminar**

This page is not intended to be a general documentation of uPortal configuration. It is the specific ramblings that will be presented at the JA-SIG Vancouver uPortal 101 pre-conference seminar.

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,SMAL
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.