**eiConsole Assignment**

**(Level: Advanced)**

## Objective

The objective of this assignment is for the trainee to use the eiConsole to create a working solution to a non-trivial problem. This assignment provides an opportunity for the trainee to apply what they have learned in the preceding tutorials and gain some hands-on experience.

## Topics Covered

* Listeners
* Processors
* OGNL
* Environment Properties
* Transaction Monitor and Routing Module
* Transports
* Data Mapper
* SQLXML

## Assignment

Develop routes and interfaces in eiConsole to read the accompanying XML file.

The XML file above can be sent to the eiConsole using

* HTTP webservices. The HTTP web service listener should validate the username and password in the HTTP headers (sent via HTTP basic authentication) against a table in the database with username and passwords.
* FTP or dropped in a folder on the local filesystem (as zipped XML file)

The data in the XML must be saved in the appropriate fields in the database table. The input XML must also be zipped and archived to a configurable archive folder.

In case of an error (e.g. invalid XML file, DB offline), an error message will be logged in the log file.

## Expected Results

* Filename with unique name stored in the archive folder configured in the Environment Properties
* Data in the file stored in appropriate columns in the database
* In case of an error, an error message will be logged in the log file

## Input File

<?xml version="1.0" encoding="UTF-8"?>

<CATALOG>

<CD>

<TITLE>Empire Burlesque</TITLE>

<ARTIST>Bob Dylan</ARTIST>

<COUNTRY>USA</COUNTRY>

<COMPANY>Columbia</COMPANY>

<PRICE>10.90</PRICE>

<YEAR>1985</YEAR>

</CD>

<CD>

<TITLE>Maggie May</TITLE>

<ARTIST>Rod Stewart</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>Pickwick</COMPANY>

<PRICE>8.50</PRICE>

<YEAR>1990</YEAR>

</CD>

<CD>

<TITLE>When a man loves a woman</TITLE>

<ARTIST>Percy Sledge</ARTIST>

<COUNTRY>USA</COUNTRY>

<COMPANY>Atlantic</COMPANY>

<PRICE>8.70</PRICE>

<YEAR>1987</YEAR>

</CD>

</CATALOG>

## Database Table Structure

TABLE NAME CATALOG

TITLE VARCHAR(50)

ARTIST VARCHAR(50)

COUNTRY VARCHAR(50)

COMPANY VARCHAR(50)

PRICE DECIMAL

YEAR NUMBER