

Cyril Pestel
October 2007



A framework to implement UWS with REST Binding

Reminder

- Universal Worker Service
 - manage asynchronous jobs
 - job is composed of phase, quote, termination time, and results
- Representational State Transfer
 - every component is a web resource with its own URI
 - uses basic HTTP methods :
GET/POST/PUT/DELETE

Informations

- Packaging : war or jar
 - 7 Servlets
 - 7 XML StyleSheet (*XSL*)
- Needs :
 - Java Package for managing UWS (*provided*)
 - a web container (*like Tomcat*)
- Documentation
 - User Guide

First steps

- Easy to use
- But configuration done manually
 - change web.xml (job name, periodMax, extraPeriod)
 - set parameterForms.xsl (create your own form)
 - specify into a Java Class how to execute the job
- ... Probably there will be a HTML Form Interface

Features (1/2)

- Follows the UWS v0.3 Working Draft :
 - uses ISO8601 format (Date format)
 - returns XHTML or XML document
- Customizable
 - XHTML form via XSL file (*for initializing parameters*)
 - job name
 - extra duration added to the termination time
 - maximum duration allowed

Features (2/2)

- Persistence : Java Serialization
- Using AJAX (*DWR*) : the status (*Phase*) is automatically refreshed, and parameters are shown
- Automatic deletion when termination time is reached
- Execution engine (it allows to limit the execution of n jobs at the same time)

Use Case

This is the list of extant jobs *segm* which has been created :

JobID	Phase	Termination	Quote	Results	Actions
2007982031550:8	PENDING	2007-10-08T22:31:55.427+02:00		results	<input type="button" value="Launch"/> <input type="button" value="Delete"/>

Images :

Classes :

Iterations :

Terminé