D2.3v2 LiquidPub processes plugins (version 2)

Maintainer/Editor-in-chief	Aliaksandr Birukou
Core Authors	Cristhian Parra, Ismel Brito, Nardine Osman
Maintainers/Editors	
Reviewers	Marcos Baez, Peep Kungas
LiquiPub research group leaders	Fabio Casati, Roberto Casati, Marlon Dumas, Ralf Gerstner, Fausto Giunchiglia, Maurizio Marchese, Gloria Origgi, Alessandro Rossi, Carles Sierra, Yi-Cheng Zhang
LiquiPub project leader	Fabio Casati

Disclaimer

Abstract

This document reports on Charter Management System (Charms) and Gelee System. These are tools, developed in LiquidPub for the management of research processes. In particular, Charms deals with the specification and the automatic execution of the processes concerned with the creation, dissemination, and evaluation of research work. Gelee allows users to manage lifecycle of any artifact identifiable by a URI (e.g., SKOs such as deliverables and papers), to monitor the progress and automatically execute actions on resources upon the resource entering specific lifecycle states.

Keyword list: **lifecycle, charter, process, management, workflow**

Introduction

This document reports on Charter Management System (Charms) and Gelee System. Both tools have been developed in LiquidPub for the management of research and dissemination processes. In particular, Charms deals with the specification and the automatic execution of the processes concerned with the creation, dissemination, and evaluation of research work. Charms deals specifically with formal and repeatable processes, such as submission processes of conferences (submitting articles, reviewing articles, submitting camera ready papers) or journals, and manages the progression of such processes. The novelty of Charms is that it automatically adapts the user interface according to any modification of the process specification.

Gelee, however, is a tool for lightweight *lifecycle* management. It allows users to define the lifecycle of any artifact identifiable by a URI (e.g., SKOs such as deliverables and papers), to monitor its progress, and to automatically execute actions on resources upon the resource entering specific lifecycle states. A typical example application of Gelee is to define and monitor a quality plan for the artifacts. Gelee does *not* include a workflow engine (the state is advanced manually) and the lifecycle can be defined and evolved at runtime. The tool merely provides a guideline for execution that can be followed or even disregarded. As such, it is intended to be used in more informal and liquid processes, such as the collaborative writing and reviewing of a deliverable.

Note that since this is a prototype deliverable, this document only contains pointers to software artifacts and documentations (e.g., API, reference manual).

Charms

Introduction

Charms provides users with straightforward means for the specification and the automatic execution of the processes concerned with the creation, dissemination, and evaluation of research work. In other words, Charms is a user-friendly system for managing research work. Read more about Charms at http://project.liquidpub.org/charms/.

Source Code

The source code of the Charms can be found at http://project.liquidpub.org/charms/Charms-0.2.zip.

Current status

The development phases of Charms are distinguished to the back-end and the front-end of the application. The current development stage of Charms focuses on the back-end part, which guarantees that the elements of the Charms's architecture will interact properly (for further details see deliverable D5.1v3).

We used Charms to specify LiquidConference lifecycle. We have also used Charms to specify, execute, and manage the monthly departmental meetings at IIIA-CSIC.

Architecture document

The architecture of the Charms is presented in the deliverable D5.1v3.

API

Since Charms works as a standalone tool, it has no API.

Gelee

Introduction

Gelee is a tool for modeling and managing lifecycle of web artifacts. Read more about Gelee at http://project.liquidpub.org/gelee/.

Source Code

The source code of Gelee is available at https://code.launchpad.net/gelee (use Bazaar, available at http://bazaar.canonical.com/en/, to download it or browse the code in browser at http://bazaar.launchpad.net/~cdparra/gelee/trunk/files).

Current status

Gelee currently fully supports design of lifecycles, while the execution of lifecycles over resources defined in the Resource Space Management System (ResMan)[1] is only partially supported. ResMan is a foundational component of the LiquidPub architecture and provides universal access to Web resources.

Full support for the execution of the lifecycles is planned to be delivered in the future.

Videos of demos

You can find a video of how Gelee works at http://www.youtube.com/watch?v=4-MkAVdCFYU

Architecture

The description of the architecture of the Gelee is presented in the deliverable D5.1v3.

API

The information for Gelee developers is available at http://project.liquidpub.org/gelee/developers.html. In particular, the API specification is available at http://bazaar.launchpad.net/~cdparra/gelee/trunk/view/head:/docs/gelee_reference.pdf

Other documents

More information about Gelee, such as presentations and related documents, is available at http://project.liquidpub.org/research-areas/lifecycle-management.

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[1] ResMan is replaced by the Scientific Resource Space Management System (SRS) in the new LiquidPub architecture (see D5.1v3).