

jAPS 2.0 - Plugin Rss

Do It The jAPS Way

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Abstract

Lo scopo di questo documento è quello di fornire una descrizione completa della struttura del Plugin Rss.

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Chapter 1. Scopo del Documento

Introduzione

Lo scopo di questo documento è quello di fornire una descrizione completa della struttura del Plugin `jprss`.

A chi è destinato

Questo documento è destinato a chi intende conoscere le funzionalità del jAPSPugin `jprss`, e sta prendendo in considerazione la eventuale integrazione in un Ambiente di Produzione già funzionante o nel proprio Ambiente di Sviluppo (Progetto in IDE Eclipse).

Il documento è indirizzato sia a Sistemisti (responsabili di installazioni di Applicazioni su base jAPS2) che a Java Developers (con una conoscenza base del Framework jAPS2).

Prerequisiti

Per poter utilizzare efficacemente le informazioni contenute in questo documento, occorre un po' di esperienza su alcune tecnologie del web base: la piattaforma Java, gli strumenti di sviluppo Eclipse, il servlet engine Apache Tomcat, il database PostgreSQL, e del Framework jAPS2.

Riferimenti

Ulteriori informazioni possono essere richieste scrivendo alla mailing-list, attraverso i seguenti indirizzi:

- `<japs-devs@lists.sourceforge.net>`, focused on developers
- `<japs-users@lists.sourceforge.net>`, focused on final users

Chapter 2. Caratteristiche del Plugin

Il Plugin `jprss` consente di erogare i contenuti del portale in formato RSS.

Table 2.1. Riassunto delle caratteristiche

Codice	Nome	Tipo	Versione del Plugin	Versione di jAPS 2.0
jprss	RSS	PurePlugin	1.1	2.0.8

Prerequisiti

Questo modulo richiede la presenza del seguente plugin:

- *jacms* version 2.0.8

Nella versione jAPS 2.0.8 *jacms* è fornito in bundle con jAPS2 stesso, non richiedendo alcuna installazione aggiuntiva da parte dell'utente finale.

Caratteristiche del Plugin

Funzionalità

Il modulo presenta:

- Una interfaccia del Back-End tramite il quale l'amministratore può creare e gestire i canali di erogazione dei contenuti in formato RSS. Tale interfaccia aderisce perfettamente alla grafica ed impostazione del Back-End ed è accessibile attraverso una voce del menù *Plugin*.
- Una showlet tramite la quale fornire dal Front-End l'elenco dei canali attivi, con il relativo link.

Sul Front-End i canali RSS vengono resi disponibili tramite link così configurati:

```
http://indirizzoSito:8080/mioportale/do/jprss/Rss/Feed/show.action?id=id d
```

dove 'indirizzoSito' è l'ip del portale 'mioportale' e 'id' è l'ID del contenuto servito

Configurazione del plugin

Configurazione dei canali RSS

Per accedere all'interfaccia di amministrazione seguire i seguenti passi:

1. Accedere all'area di amministrazione del portale
2. Plugin
3. RSS

Appare la seguente finestra:

Benvenuto/a, admin!

Gestione Canali RSS

[Nuovo Canale](#)

Lista Canali

Titolo	Descrizione	Attivo	Tipo di Contenuto	Tipo di RSS	
First RSS channel	Channel description	Sì	Notizia	rss 2.0	

Lista dei Canali RSS presenti nel portale

Cliccando sul link *Nuovo Canale* appare la seguente finestra:

Benvenuto/a, admin!

Gestione Canali RSS

Aggiungi un Canale

Tipo di Contenuto:

Notizia

Continua

Scelta tipo contenuto che verrà usato per la creazione del canale RSS

Una volta selezionato il tipo di contenuto ci verrà chiesto di perfezionare la creazione del nuovo canale RSS inserendo i campi di cui in figura:

The screenshot displays the 'Gestione Canali RSS' (RSS Channel Management) interface. On the left, a sidebar contains navigation links: 'ponenti', 'Portale', 'C.M.S.', and 'umenti'. The main content area is titled 'Gestione Canali RSS' and features a sub-header 'Aggiungi un Canale'. Below this, there is a form with the following fields: 'Tipo di Contenuto:' with a dropdown menu showing 'Notizia'; 'Titolo:' with a text input field; 'Descrizione:' with a text input field; an 'Attivo' checkbox; 'Tipo di RSS:' with a dropdown menu showing 'rss 2.0'; and 'Categoria:' with a dropdown menu showing 'Indifferente'. At the bottom of the form is an 'Aggiungi' button. Below the form, there is a 'Filtri' section with the text 'Non è stato ancora definito nessun filtro.' and a 'Salva' button at the bottom right of the interface.

Dati del nuovo canale RSS

Inserire le informazioni relative a :

- Titolo del canale RSS
- Descrizione del canale RSS
- Canale RSS attivo o meno
- Definizione del tipo di RSS
- Definizione della Categoria del Canale RSS
- Definizione degli eventuali Filtri (Vedere paragrafo successivo per la gestione dei filtri)

una volta confermati i dati il canale RSS è disponibile per essere inserito in front-end.

Definizione dei Filtri: Se fosse necessario gestire dei filtri per il canale RSS selezionare Aggiungi nel box filtri della figura precedente appare dunque la seguente finestra:

Gestione Canali RSS

Aggiungi un Canale

Gestione filtro

Tipo:

Continua

Gestione Filtri per Canale RSS

I filtri sono configurabili a seconda dei Tipi di Attributo di Contenuto presenti nel Tipo di Contenuto che viene utilizzato per il canale RSS.

Example 2.1. Esempio di filtro di tipo Data

Gestione Canali RSS

Aggiungi un Canale

Gestione filtro

Hai deciso di filtrare per: **Data di Creazione** (Metadato)

Ordinamento

☒ **Nessuno**
☐ **Crescente**
☐ **Discendente**

Salva

Creazione Filtro di tipo Data per Canale RSS

Example 2.2. Esempio di filtro di tipo Testo

Gestione Canali RSS

Aggiungi un Canale

Gestione filtro

Tipo:

Continua

Creazione Filtro di tipo Testo per Canale RSS

Risultato atteso se si applicano i due esempi precedenti ad un canale RSS

C.M.S.

umenti

azione

Filtri

N	Descrizione Filtro	Ordinamento	—
1	per Data di Creazione		<div>↑</div> <div>↓</div> <div>...</div>
2	per Titolo		<div>↑</div> <div>↓</div> <div>...</div>

Aggiungi

Risultato configurazione Canale RSS

Chapter 3. Installazione ed integrazione

Il Plugin `jprss` consente di erogare i contenuti del portale in formato RSS.

Il plugin ha la caratteristica di *PurePlugin*, la sua installazione non modifica nessuna funzionalità presente nel sistema.

Descrizione del Pacchetto

Il pacchetto del Plugin contiene l'insieme delle cartelle (cartelle `doc` ed `src` più il file `Readme`) definite nel documento di descrizione generale del *jAPSPlugin Pattern*.

In particolare, la directory `src` è strutturata come di seguito descritto:

- Directory `java`. Contiene le sorgenti java complete e i test jUnit del Plugin.
- Directory `sql`. Contiene gli script da eseguire nei db `port` e `serv` principali e di test.
- Directory `webapp`. La directory contiene tutti i file necessari alla webapp. In particolare, la directory contiene i file (jsp) relativi alla interfacce utente ed i file di configurazione delle stesse, i file di definizione dei bean a servizio (sia del layer di Business del Modello di jAPS 2.0, che nelle action di Struts 2 relative al Layer di Presentation), le librerie (compresa la libreria ricavata dalle sorgenti java date in dotazione), le risorse statiche necessarie (css, immagini, e js).

Integrazione in Ambiente di Produzione

Per definizione, chiameremo l'applicazione sulla quale si deve installare il plugin con il nome di `miawebapp`.

Per eseguire l'installazione in una applicazione Web in produzione basata sulla versione di jAPS 2.0 dichiarata compatibile con il Plugin, i passi da eseguire sono i seguenti:

- Copiare il contenuto della directory `src/webapp/WEB-INF/lib` del pacchetto dato in dotazione, all'interno della directory `miawebapp/WEB-INF/lib/` in produzione.
- Copiare il contenuto della directory `src/webapp/WEB-INF/plugins` del pacchetto dato in dotazione, all'interno della directory `miawebapp/WEB-INF/plugins/` in produzione. Creare la directory `plugins` se non è presente.
- Copiare il contenuto della directory `src/webapp/resources/plugins` del pacchetto dato in dotazione, all'interno della directory `miawebapp/resources/plugins/` in produzione.
- Eseguire i task contenuti nel file `portScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel db `port` in produzione. Lo script è strutturato ipotizzando il parametro `version` impostato a `production` (variare se il version dell'ambiente di produzione è diverso). Modificare la query inserendo le opportune modifiche per i seguenti valori: `CONTENT_TYPE`, `ATTRIBUTE_NAME` e `MAX_ITEMS`.
- Lo script è strutturato ipotizzando il `version production` (variare se il version dell'ambiente di produzione è diverso). Modificare la struttura del modello del profilo secondo le necessità.
- Eseguire i task contenuti nel file `servScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel db `serv` in produzione.

Le precedenti attività sono da eseguire nell'applicazione *a freddo*, successivamente all'arresto del container.

Installazione in Ambiente di Sviluppo

Per definizione, chiameremo il progetto sul quale si deve installare il plugin con il nome di `mioprogetto`.

Per eseguire l'installazione in un progetto Eclipse basato sulla versione di jAPS 2.0 dichiarata compatibile con il Plugin, i passi da eseguire sono i seguenti:

- Copiare il contenuto della directory `src/webapp/WEB-INF/lib` del pacchetto dato in dotazione, all'interno della directory `mioprogetto/WebContent/WEB-INF/lib/`, con l'esclusione del file `jAPSPugin-jprss-1.1.jar`.
- Copiare il contenuto della directory `src/webapp/WEB-INF/plugins` del pacchetto dato in dotazione, all'interno della directory `mioprogetto/WebContent/WEB-INF/plugins/`. Creare la directory `plugins` se non è presente.
- Copiare il contenuto della directory `src/webapp/resources/plugins` del pacchetto dato in dotazione, all'interno della directory `mioprogetto/WebContent/resources/plugins/`.
- Eseguire i task contenuti nel file `portScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel proprio db `port`. Lo script è strutturato ipotizzando il parametro `version` impostato a `production` (variare se il version dell'ambiente di produzione è diverso). Modificare la query inserendo le opportune modifiche per i seguenti valori: `CONTENT_TYPE`, `ATTRIBUTE_NAME` e `MAX_ITEMS`.
- Eseguire i task contenuti nel file `servScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel proprio db `serv`.
- Eseguire i task contenuti nel file `portTestScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel proprio db `port` di test.
- Eseguire i task contenuti nel file `servTestScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel proprio db `serv` di test.
- Copiare il contenuto della directory `src/java/main/com` nella directory `mioprogetto/src/com` del proprio progetto.
- Copiare il contenuto della directory `src/java/test/test` nella directory `mioprogetto/src/test` del proprio progetto.
- Copiare il file `src/java/main/jprss_japs-struts-plugin.xml` in `mioprogetto/src/`. Nel caso in cui nella directory `src` del progetto Eclipse sia già presente un file di nome `japs-struts-plugin.xml`, copiare il contenuto del tag `<struts>` del file `jprss_japs-struts-plugin.xml` all'interno del file `japs-struts-plugin.xml` esistente e cancellare il file `jprss_japs-struts-plugin.xml`. Nel caso in cui nella directory `src` del progetto Eclipse non sia presente un file di nome `japs-struts-plugin.xml`, rinominare il file `jprss_japs-struts-plugin.xml` in `japs-struts-plugin.xml`.
- Eliminare o commentare (attraverso un commento java) il metodo `getSpringConfigFilePaths()` della classe `JpRssConfigTestUtils.java` nel package `test.com.agiletec.plugins.jprss`.
- Eliminare o commentare (attraverso un commento java) il metodo `setInitParameters()` della classe `JpRssApsAdminBaseTestCase.java` nel package `test.com.agiletec.plugins.jprss.apsadmin`.

Una volta eseguiti i passi sopra descritti, far partire il progetto da Eclipse e verificare la presenza della voce specifica di menù nell'area di amministrazione del progetto.

Configurazione del plugin

Dopo aver eseguito i passi indicati nella sezione installazione, è necessario configurare manualmente i valori contenuti all'interno dell'elemento `jprssConfig` contenuto nella tabella `sysconfig` nel db `*Port`.

Tale configurazione determina la modalità di conversione dei contenuti in RSS.

Questo record contiene il mapping dei vari Tipi di Contenuto ed un RSS, che possono essere utilizzati per creare i canali RSS. Dove:

- `typecode` è il codice del Tipo di Contenuto che si desidera erogare
- `title` è il nome dell'attributo del Tipo di Contenuto che valorizza il titolo del feed.
- `description` è il nome dell'attributo del Tipo di Contenuto che valorizza la descrizione del feed.
- `maxItems` è il valore massimo di Items che verranno visualizzati

Dato un `contentType` NEW così strutturato:

Example 3.1. Esempio di Configurazione `jprssConfig`

```
<contenttype typecode="NEW" typedescr="Notizia" viewpage="uirnetnewviewer"
  listmodel="11" defaultmodel="10">
<attributes>
  <attribute name="Data" attributetype="Date" searchable="true"
    required="true" />
  <attribute name="Titolo" attributetype="Text" indexingtype="text"
    searchable="true" required="true" />
  <attribute name="Abstract" attributetype="Longtext" indexingtype="text"
    searchable="true"/>
  <attribute name="CorpoTesto" attributetype="Hypertext"
    indexingtype="text" />
  <attribute name="Immagine" attributetype="Image"/>
  <list name="ListaLinkCorrelati" attributetype="Monolist"
    nestedtype="Link"/>
  <list name="ListaAllegati" attributetype="Monolist"
    nestedtype="Attach"/>
</attributes>
</contenttype>
```

Si decide che per i canali RSS di tipo NEW la lista conterrà al massimo 15 elementi. Creeremo dunque in mapping come il seguente:

Example 3.2.

```
<mapping typecode="NEW" typedescr="Notizia">
<title attributeName="Titolo" />
<description attributeName="Abstract" />
<maxItems value="15" />
</mapping>
```

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