

jAPS 2.0 – Plugin Mail

Do It The jAPS Way

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jAPS 2.0 – Plugin Mail

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Abstract

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

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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 Mail.

A chi è destinato

Questo documento è destinato a chi intende conoscere le funzionalità del jAPS Plugin Mail, 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 jAPS 2.0) che a Java Developers (con una conoscenza base del Framework jAPS 2.0).

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 jAPS 2.0. E' inoltre necessario aver letto il documento *jAPS 2.0 - Plugin Pattern*.

Riferimenti

Ulteriori informazioni possono essere richieste scrivendo alle seguenti mailing-list:

- <japs-devs@lists.sourceforge.net>, per gli sviluppatori
- <japs-users@lists.sourceforge.net>, per gli utenti finali

È inoltre possibile consultare la documentazione presente in:

jAPS 2.0 Project - Sito per gli sviluppatori [<http://dev.japsportal.org/>]

Chapter 2. Caratteristiche del Plugin Mail

Il Plugin Mail fornisce le funzionalità di base per l'invio di eMail in testo semplice e/o html, con o senza allegati. Tale servizio è la base per tutti i plugin che richiedono l'invio di eMail.

Il plugin è strutturato in maniera da essere inserito in una istanza di jAPS senza intaccarne il core.

Table 2.1. Riassunto delle caratteristiche

Codice	Nome	Tipo	Versione Plugin	del	Versione di jAPS 2.0
jpmail	Mail	PurePlugin	1.2		2.0.10
jpmail	Mail	PurePlugin	1.1		2.0.8, 2.0.6
jpmail	Mail	PurePlugin	1.0		2.0.2

Caratteristiche del Plugin Mail

Funzionalità

Il Plugin Mail fornisce la funzionalità di invio eMail da uno dei mittenti configurati nel servizio.

Lo scopo principale del plugin è fornire delle funzioni generali a servizio di implementazioni particolari; le funzionalità esposte sono a servizio *esclusivo* di altri moduli plugin che necessitano, per il loro funzionamento, della spedizione di eMail; es: moduli di Registrazione Utenti, Moduli Newsletter, ecc.

Le interfacce esposte dal servizio consentono la personalizzazione, da parte dei Plugin *utilizzatori*, dei seguenti campi della mail:

- mittente (uno tra i mittenti configurati nel servizio)
- oggetto
- testo
- destinatario (anche in CC e BCC)
- contenuto (in testo semplice, html o misto, con o senza allegati)

Il modulo presenta una interfaccia del Back-End tramite la quale un utente *superuser* può configurare il servizio. Tale interfaccia aderisce perfettamente alla grafica ed impostazione del Back-End ed è accessibile attraverso una voce del menù *Plugins*. Tale interfaccia consente di configurare, separatamente, il server smtp e i gli indirizzi dei mittenti del sistema.

Configurazione del Plugin Mail

Il plugin necessita di una configurazione xml, inserita nel db *Port* dell'istanza di jAPS 2.0, nella quale sono definiti l'host smtp, i relativi username e la password, un flag che abiliti il tracciamento dei log in fase di debug, una serie di mittenti conposti da codice e indirizzo eMail.

Di seguito un esempio della configurazione necessaria:

```
<mailConfig>
  <senders>
    <sender code="CODE1">EMAIL1@EMAIL.COM</sender>
    <sender code="CODE2">EMAIL2@EMAIL.COM</sender>
  </senders>
  <smtp debug="true" >
    <host>out.virgilio.it</host>
    <user></user>
    <password></password>
  </smtp>
</mailConfig>
```

Tutti questi elementi sono obbligatori tranne l'attributo debug che, nel caso non sia presente, varrà false.

Interfaccia di Back-End

Il plugin fornisce una interfaccia di Back-End, accessibile dalla voce di menù `Plugin`, sottomenù `Gestione eMail`. La voce di menù presenta due sottomenù, uno che conduce all'interfaccia per la configurazione del server `Smtp`, un altro che conduce all'interfaccia per la configurazione dei mittenti delle mail.

Chapter 3. Installazione e Integrazione Plugin

Installazione e Integrazione Plugin

Caratteristiche tecniche

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 directory (directory `doc` ed `src` più il file `Readme`) definite nel documento di descrizione generale chiamato *jAPS2.0 - Plugin 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

Di seguito individueremo con `mioportale` il nome della Web Application in ambiente di produzione in cui installeremo il plugin.

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:

Note

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

- Copiare il contenuto della directory `src/webapp/WEB-INF/lib` del pacchetto dato in dotazione, all'interno della directory `mioportale/WEB-INF/lib/` in produzione.
- Copiare il contenuto della directory `src/webapp/WEB-INF/plugins` del pacchetto dato in dotazione, all'interno della directory `mioportale/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 `mioportale/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 version `production` (variare se il version dell'ambiente di produzione è diverso). Modificare la configurazione del server `smtp` e degli indirizzi dei mittenti secondo le necessità.

Installazione in Ambiente di Sviluppo

Di seguito individueremo con `mioprogetto` il nome del progetto Eclipse in cui installeremo il plugin.

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-jpmail-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 version `production` (variare se il version dell'ambiente di produzione è diverso). Modificare la configurazione del server smtp e degli indirizzi dei mittenti secondo le necessità.
- Eseguire i task contenuti nel file `portTestScript.sql` (contenuto nella directory `src/sql` del pacchetto dato in dotazione) nel proprio db port 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 nella directory `mioprogetto/src/` del proprio progetto il file contenuto della directory `src/java/main` di nome `jpmail_japs-struts-plugin.xml`. Nel caso che 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 `jpmail_japs-struts-plugin.xml` all'interno del file `japs-struts-plugin.xml` esistente e cancellare il file `jpmail_japs-struts-plugin.xml`. Nel caso che nella directory `src` del progetto Eclipse non sia presente un file di nome `japs-struts-plugin.xml`, rinominare il file `jpmail_japs-struts-plugin.xml` in `japs-struts-plugin.xml`.
- Per verificare il corretto invio delle mail nei test di jUnit, modificare la costante `MAIL_ADDRESSES` della classe `JpmailTestHelper.java` nel package `test.com.agiletec.plugins.jpmail.util`.

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

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