

jAPS 2.0 - Plugin User Reg

Do It The jAPS Way

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Abstract

The purpose of this document is to provide a complete description of the Plugin "jpuserreg" structure.

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Chapter 1. Scope of the document

Introduction

The purpose of this document is to provide a complete description of the Plugin "jpuserreg" structure.

Target audience

This document is intended for those who wish to know the capabilities of the jAPSPugin "jpuserreg" and is considering the possible integration into a running production environment or in its Development Environment (IDE Eclipse Project).

The document is addressed to both System Administrators and java Developers.

Prerequisites

In order to take maximum advantage from the present document, it is necessary to have basic knowledge about: the Java platform, the Eclipse IDE, the Apache Tomcat servlet engine, the PostgreSQL DBMS.

Resources

Additional informations may be obtained through the following two mailing-lists:

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

Chapter 2. Plugin features User Reg

The jAPS Plugin User Reg allows to a portal visitor the following actions:

- registration of data mandatory to access reserved areas on portal
- recover credential to portal access (username and/or password)
- account reactivation to access reserved areas on portal, after disactivation
- the account disactivation to avoid user access to reserved areas on portal, is possible to reactivate the account

Table 2.1. Summary of features

Code	Name	Type	Plugin Version	jAPS 2.0 Version
jpuserreg	User Reg	PurePlugin	1.1	2.0.8

Plugin features User Reg

Features

The module presents a set of interfaces for the Front-End, payable through Showlet *Internal Servlet*. These interfaces do not contain any graphical element. In this way it's possible to decorate it in any specific instance of jAPS 2.0. The actions of the registration and the reactivation of an account happens with an email sending, these mail contains a link to complete operation.

The registration procedure require the insertion of fields name, surname, language and email. When user provides required data, he receives an email with a link with a ticket valid for account activation. Clicking on the link the user accessed to a page to complete the registration procedure. During this procedure the user have to define his password. If user successfully defined his password the user has an account to access reserved areas on portal.

The reactivation process allows you to recover your password if lost or to reactivate your account, previously deactivated, redefining the password. The password recovery procedure requires that user provide his username or his email address from his profile on the portal. If the data provided are correct the user receives an email containing a link with a valid ticket to redefine the password for your account.

The procedure allows the user to disable his account. Once suspended the account you can not use it to log into the portal until the reactivation process is not completed. An user for suspend his account must be logged and must provide his password.

Prerequisites

the module require the installation of the plugins:

- *jpmail* version 1.1
- *jpuserprofile* version 1.4

for details on those plugins see respective manuals.

Chapter 3. Plugin installation and integration

Plugin installation and integration

Tecnical Features

The plugin has the characteristic of *PurePlugin*, its installation does not change any functionality in the system. The module presents a set of interfaces for the Front-End. These interfaces do not contain any graphical element. In this way it's possible to decorate it in any specific instance of jAPS 2.0.

Package Description

The package contains the folders `doc`, `src` and the file `README` as defined on *jAPSPlugin Pattern* documentation.

The `src` folder is structured as following:

- The `java` folder contains complete java sources and the jUnit tests for the Plugin.
- The `sql` folder contains scripts to execute on `Port` and `Serv db`, for production and for test.
- The `webapp` folder contains all file needed by the webapp. In details, the folders contains jsp files (user interfaces) and config files, files for bean definition used by business layer of the jAPS 2.0 model and also by Struts 2 actions from the layer of presentation, the libraries (including the jar from sources of the plugin) and statics resources (css, images, js).

Prerequisites for the integration and installation

For integrate and install successfully the plugin of user registration the installation of plugins *jpmail* and *jpuserprofile* is mandatory. For integration/installation of this plugins see relative documentation.

Integration in a Production Environment

The following steps are for the installation of the plugin on a web application, in production state, based on the jAPS version declared compatible with the plugin.

The following activities are to be carried out after the stop of the Web Application.

- Install the plugins *jpmail* and *jpuserprofile* in the production environment (see relative documentation), customize properly plugin configuration following the next paragraphs instructions.
- Copy the contents of the folder `src/webapp/WEB-INF/lib` of the package as supplied within the folder `<WEB_APP_NAME>/WEB-INF/lib/` in production.
- Copy the contents of the folder `src/webapp/WEB-INF/plugins` of the package as supplied within the folder `<WEB_APP_NAME>/WEB-INF/plugins/` in production. Create folder `plugins` if not exists.
- Copy the contents of the folder `src/webapp/resources/plugins` of the package as supplied within the folder `<WEB_APP_NAME>/resources/plugins/` in production.

- Perform tasks detailed in the file `portScript.sql` (present in the folder `src/sql`) in the production db *port*.
- The script is written for a version `production` (edit if the version of the environment is different). Edit the structure of the profile model if needed.
- Perform tasks detailed in the file `servScript.sql` (present in the folder `src/sql`) in the production db *serv*.

Installation in a Development Environment

To install the plugin in an Eclipse project based on jAPS 2.0 and declared compatible with the plugin, Perform the following steps (From this point on, we will assume that your new project is called `<PROJECT_NAME>`):

- Install the plugins *jpmail* and *jpuserprofile* in the development environment (see relative documentation), customize properly plugin configuration following the next paragraphs instructions.
- Copy the contents of the folder `src/webapp/WEB-INF/lib` of the package as supplied within the folder `<PROJECT_NAME>/WebContent/WEB-INF/lib/`, excluding file `jAPSPlugin-jpuserreg-1.1.jar`.
- Copy the contents of the folder `src/webapp/WEB-INF/plugins` of the package as supplied within the folder `<PROJECT_NAME>/WebContent/WEB-INF/plugins/`. Create folder `plugins` if not exists.
- Copy the contents of the folder `src/webapp/resources/plugins` of the package as supplied within the folder `<PROJECT_NAME>/WebContent/resources/plugins/`.
- Perform tasks detailed in the file `portScript.sql` (present in the folder `src/sql`) in the development db *port*. The script is written for a version `production` (edit if the version of the environment is different). Edit the structure of the profile model if needed.
- Perform tasks detailed in the file `servScript.sql` (present in the folder `src/sql`) in the development db *serv*.
- Perform tasks detailed in the file `portTestScript.sql` (present in the folder `src/sql`) in the test db *port*.
- Perform tasks detailed in the file `servTestScript.sql` (present in the folder `src/sql`) in the test db *serv*.
- Copy the contents of the folder `src/java/main/com` in the folder `<PROJECT_NAME>/src/com` of your project.
- Copy the contents of the folder `src/java/test/test` in the folder `<PROJECT_NAME>/src/test` of your project.
- Copy in the folder `<PROJECT_NAME>/src/` of your project the file named `jpuserreg_japs-struts-plugin.xml` contained in the folder `src/java/main`. If in the folder `src` of the Eclipse project is already present one file with named `japs-struts-plugin.xml`, copy the content of the tag `<struts>` of the file `jpuserreg_japs-struts-plugin.xml` into the existing file `japs-struts-plugin.xml` and delete the file `jpuserreg_japs-struts-plugin.xml`. If the folder `src` of the Eclipse project there is not a file named `japs-struts-plugin.xml`, rename the file `jpuserreg_japs-struts-plugin.xml` to `japs-struts-plugin.xml`.
- To verify the correct send of emails in the jUnit tests, change the constant `EMAIL` of the class `JpUserRegTestHelper.java` in the package `test.com.agiletec.plugins.jpuserreg`.

After performing the steps above, start the project from Eclipse and configure using the administrative interface, pages needed to run the plugin, as described in the following paragraphs. You need also to customize the jsp.

Configuration of plugins Mail and User Profile

In your configuration for the plugin User Profile need to be presents 4 attributes Name, Surname, email and Language , configured as in the example:

Example 3.1. Example of configuration for plugin User Profile

```
<profiles>
  <profile typecode="PFL" typedescr="Profilo utente/cittadino tipo" >
    <attributes>
      <attribute name="Nome" attributetype="Monotext"
        required="true"/>
      <attribute name="Cognome" attributetype="Monotext"
        required="true"/>
      <attribute name="email" attributetype="Monotext"
        required="true" searcheable="true" />
      <attribute name="language" attributetype="Monotext" />
    </attributes>
  </profile>
</profiles>
```

important: attribute email must be declared searchable

The *email* attribute **must be**, , *searcheable* this to be able to recover user information by email. Such as occurs in the password recovery feature via email request. To successfully run JUnit tests verify the configuration of *email* attribute in the profile configuration in the test database.

Note the *name* assigned to these attributes, as will be necessary to the configuration of the plugin Reg User.

The jpmail plugin need to be configured at least of one sender whit a valid email address. This will be used for communication with the user during the registration procedure and the reactivation procedure.

Example 3.2. Example of configuration for jpmail plugin

```
<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>
```

Note the *code* attribute used for email send.

Check, and if need edit, the parameter *applicationBaseURL* into file /WebContent/META-INF/context.xml, it must be setted to the full URL of the portal. Example:

```
<Environment name="applicationBaseURL"
  value="http://localhost:8080/PortalExample/"
```

```
type="java.lang.String"
override="false" />
```

Plugin configuration User Reg

The plugin configuration is defined on a xml file (loaded into Port database of jAPS 2.0). In that file are defined elements of configuration needed for user generation and user profile generation and also configuration for emails for registration and reactivation procedures.

An example of required configurations:

```
<userRegConfig>
  <!-- Matching between plugin jpuserreg attributes and attributes
  Nome, Cognome, language and email mapped
  on user profile config -->
  <profileEntity nameAttr="Nome" surnameAttr="Cognome"
    eMailAttr="email" langAttr="language" />

  <!-- Token validity in minutes -->
  <tokenValidity minutes="60"/>

  <!-- Sender code, as in mailConfig -->
  <sender code="CODE1" />

  <!-- Authorities to load on user request profile [OPTIONAL] -->
  <userAuthDefaults>
    <role name="userrole" />
    <group name="usergroup" />
  </userAuthDefaults>

  <!-- Activation page name -->
  <activation pageCode="activation">
    <template lang="it">
      <subject>[jAPS] : Attivazione utente</subject>
      <body>
Gentile {name} {surname},
grazie per esserti registrato.
Per attivare il tuo account è necessario seguire il seguente link:
{link}
Cordiali Saluti.
      </body>
    </template>
  </activation>

  <!-- Re-Activation page name -->
  <reactivation pageCode="recover">
    <template lang="it">
      <subject>[jAPS] : Riattivazione utente</subject>
      <body>
Gentile {name} {surname},
il tuo userName è {userName}.
Per riattivare il tuo account è necessario seguire il seguente link:
{link}
Cordiali Saluti.
      </body>
    </template>
  </reactivation>
</userRegConfig>
```

Details and meanings for the configuration params

- Parameter *profileEntity* - this param contains attribute's names to make the matching with User Profile plugin for attributes name, surname, language and email
- Parameter *tokenValidity* - this is the expiration time for the token of activation, send to the user with an email. Spent this time the token will be invalidated and will not be more usable for activation.
- Parameter *sender* - This param contains the email sender for matching with the plugin Mail.
- Parameter *userAuthDefaults* - this optional param allow to define roles and groups that will be assigned to the new account created during registration to portal.
- Parameter *activation* - this param contains the configuration for the email of confirm message for account activation. It contains also the code of the page for activation, the value is set into the attribute *pageCode*. Within the parameter *activation* is present at the least one element *template* corresponding to the default language of the portal. In the optimal situation is preferable to create a template for each language defined within the portal. Each element *template* contains one element *subject* and one element *body*. The *body* element can be customized with params that will be replaced at runtime. There are the following params:
 - {name}: the user name (that one configured on the attribute for the name into the profile)
 - {surname}: the surname il cognome.
 - {link}: the link for activation, it's mandatory for operation.
- Parameter *reactivation* - this param contains the configuration for email of confirmation of account reactivation. It contains also the page code for the page of reactivation into the attribute *pageCode*. In addition to that specified in the preceding paragraph for the elements *subject* and *body* You can insert an element inside the body so defined:
 - {userName}: the username of the user.

Pages configuration

The User Reg plugin needs some pages to work correctly. These pages need to be created. Each created pages contains one of the showlets of the plugin. If you use the recommended names given in the next table will not need to change codes of the pages in the showlet.

For simplify page management is recommended to create all of them like childs of one page, at example called "User Management", not visible on menu. Appropriately customize the showlet of login from the plugin `jpuserreg_loginUserReg (/WEB-INF/plugins/jpuserreg/aps/jsp/showlets/jpuserreg_loginUserReg.jsp)` or customize login showlet of the portal with new links for registration and account management.

In the showlet Nella showlet `jpuserreg_loginUserReg` there are links for pages: `registr`, `passwordrecover` and `disactiv`. This codes must match the codes of: the page for registration, the page for the password recover and the page for account disactivation. hese pages must be configured with showlets like in the following table. In the showlet there is a link for page for editing profile/password (the default page code is `editprof_page_code`, customize if necessary). If there isn't on portal page for editng profile/password remove the link. For details on configuration of page for editing profile/password refer to documentation of plugin `jpuserprofile`.

Table 3.1. Pages configuration

Page code	Showlet name
registr	User Registration - Registrazione Utente (jpuserreg_Registration)

Page code	Showlet name
activation	User Activation - Attivazione Utente (jpuserreg_Activation)
passwordrecover	Password Recover - Recupero Password (jpuserreg_Recover)
recover	User Reactivation - Riattivazione Utente (jpuserreg_Reactivation)
disactiv	User Suspension - Sospensione Utente (jpuserreg_Suspension)

The code of the page `activation` must be equal to that one into the xml configuration of the plugin in table `sysconfig` into the Port database.

Example 3.3. Example of definition for parameter `pageCode` for account activation

```
<activation pageCode="activation">
  <template lang="it">
    .....
  </template>
</activation>
```

The page code `recover` must be equal to that one inserted into the plugin configuration.

Example 3.4. Example of configuration for parameter `pageCode` for account activation or recover

```
<reactivation pageCode="recover">
  <template lang="it">
    .....
  </template>
</reactivation>
```

The presentation layer need to be customized to portal style. The resources are: those in the folder: `/WEB-INF/plugins/jpuserreg/aps/jsp/externalFramework/userreg/` and the showlet in `/WEB-INF/plugins/jpuserreg/aps/jsp/showlets/` next description for the jsp files:

- `activation/activateUser.jsp` contains the form for users registration.
- `activation/activateUserError.jsp` contains the error message for activation of account with invalid or expired ticket.
- `activation/confirmedUserActivation.jsp` contains the confirm that the request for registration was received and the sending of an email for end the procedure.
- `activation/reactivateUser.jsp` contains form for end registration with password definition.
- `activation/reactivateUserError.jsp` contains the error message for riactivation of account with invalid or expired ticket.
- `activation/confirmedUserReactivation.jsp` contains message for successfully happened reactivation of account
- `recover/recoverUser.jsp` this is the form for recovering the account from email or from username.

- `recover/confirmedRecoverRequest.jsp` message of confirmation for receipt of request for account recover.
- `registration/registerUser.jsp` the form new account registration.
- `registration/confirmedUserRegistration.jsp` message of confirmation for receipt of request for account registration.
- `suspension/confirmSuspend.jsp` form for account suspension request.
- `error.jsp` contains the error message for failed attempt of account suspension (administration user or user that is not from the local user database).

Probably you need also to customize labels for the JSPs, used with tag `wp:il8n`.

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