

jAPS 2.0 entando - Plugin User Registration

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 are 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 official mailing-lists:

- <japs-platform@googlegroups.com>, "japs-platform" Google Group, the jAPS 2.0 entando official Mailing List

Is it also possible to refer to the documentation found in the:

jAPS 2.0 entando Project - Developer Website [<http://dev.japsportal.org/>]

Chapter 2. Plugin features User Registration

The jAPS Plugin User Registration 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 deactivation 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 entando Version
jpuserreg	User Registration	PurePlugin	1.3	2.2.2 -
jpuserreg	User Registration	PurePlugin	1.2	2.2.0 -
jpuserreg	User Registration	PurePlugin	1.1	2.0.8 - 2.0.10
jpuserreg	User Registration	PurePlugin	1.0	2.0.2

Plugin features User Registration 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 entando. 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 requires to configure the User Profile with fields containing name, surname, email and language. 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 1.2 or later

- *jpuserprofile* version 1.6 or later

for details on those plugins see respective manuals.

Chapter 3. Plugin installation and integration

User Registration installation

Technical 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 entando.

Package Description

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

The `src` folder is structured as follows:

- 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 entando 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* (for a standard configuration the database has name `<WEB_APP_NAME>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` (for a standard configuration the database has name `<WEB_APP_NAME>Serv`).

Installation in a Development Environment

To install the plugin in an Eclipse project based on jAPS 2.0 entando 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 the jar of the plugin.
- 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` (for a standard configuration the database has name `<PROJECT_NAME>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` (for a standard configuration the database has name `<PROJECT_NAME>Serv`).
- Perform tasks detailed in the file `portTestScript.sql` (present in the folder `src/sql`) in the test db `port` (for a standard configuration the database has name `<PROJECT_NAME>testPort`).
- Perform tasks detailed in the file `servTestScript.sql` (present in the folder `src/sql`) in the test db `serv` (for a standard configuration the database has name `<PROJECT_NAME>testServ`).
- 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 does not contain 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. Yuo need also to customize the jsp.

Chapter 4. Plugin configuration

User Registration configuration

Pre-requirements configuration

The system parameter `applicationBaseUrl`, contained in the `context.xml` file, must be configured with the full url of the application (ex: `http://www.mywebsite.com/mywebapp/`)

You must configure the Mail service with a sender for the mail of registration and re-activation.

You must configure each type of User Profile with the following type of fields:

- Name : a Monotext, marked as *required*, configured with the `jpuserprofile:firstname` role
- Surname : a Monotext, marked as *required*, configured with the `jpuserprofile:surname` role
- email address : a Monotext, marked as *required* and searchable, configured with the `jpuserprofile:mail` role
- Language : an Enumerator, optional, configured with the `jpuserreg:language` role.

This field should be configure to take the values from the `jpuserregLangItemsExtractor` bean.

If you configure the *language* field as described, the system will be able to send the email in the desired language.

If you want to set some fields as not configurable in the registration phase, you can assign the disable code `jpuserreg:onEdit`.

Service configuration

An administrator can configure the service following the menù *Components->Plugins->User Registration->Configure*

This feature allows to configure:

- Token Validity : the validity, in days, of the links in the mail of registration and re-activation.
- Sender : the sender of the mails, as previously configured in the Mail service.
- Groups : a list of groups assigned to each new user.
- Roles : a list of roles assigned to each new user.
- Activation mail : the configuration of the mail sent after the registration.
- Confirm Page : the page to conclude the registration procedure. Must be configured to contains the User Activation Showlet (code `jpuserreg_Activation`)
- Email Subject : : The subject for the activation email, configured in each system language
- Email Body : : The body for the activation email, configured in each system language. The system provides to replace the special words `{name}`, `{surname}`, `{userName}` and `{link}` with the respective values. The link will serve to complete the procedure.

- **Reactivation mail** : the configuration of the mail sent to complete the reactivation.
- **Confirm Page** : the page to conclude the reactivation procedure. Must be configured to contains the **User Reactivation Showlet** (code `jpuserreg_Reactivation`
- **Email Subject** : : The subject for the reactivation email, configured in each system language
- **Email Body** : : The body for the reactivation email, configured in each system language. The system provides to replace the special words {name}, {surname}, {userName} and {link} with the respective values. The link will serve to complete the procedure.

Configuration of Pages and Showlets

The **User Registration** plugin needs some pages to work correctly. These pages need to be created. Each created pages contains one of the showlets of the plugin.

The plugin provides a series of showlets. The main is `jpuserreg_loginUserReg`, providing a login form and links to the pages, for registration, user recover, deactivation, editing of the profile. Later you need to change the name of the pages linked in the showlet. You can find the showlet in the folder `/WEB-INF/plugins/jpuserreg/aps/jsp/showlets/`

User Registration

A page containing the registration form. You can use, alternately, 2 different showlets.

- `jpuserreg_Registration` : **User Registration**, providing the form for a pre-defined **User Profile**
- `jpuserreg_profile_choice` : **User Registration - with profile choice**, used if there are more than a **Profile type**, allows the user to select the profile type from a list.

You need to customize the following jsp¹:

- `registration/profile-choose.jsp` : allows an user to choose the profile from a given list.
- `registration/registerUser.jsp` : the form new account registration.
- `registration/confirmedUserRegistration.jsp` : shows a message to confirm the request for registration and the sending of an email to complete the procedure.

User Activation

The page to complete the user registration. It isn't a visible page, but an user can access here with a link in the mail sent after the registration.

This page must be configured with the showlet **User Activation** (code `jpuserreg_Activation`).

You need to customize the following jsp¹:

- `activation/activateUser.jsp` : contains the form to complete an user activation.
- `activation/activateUserError.jsp` : contains the error message for activation of account with invalid or expired ticket.
- `activation/confirmedUserActivation.jsp` : shows a message to confirm the account activation.

¹ the files are all under the folder `/WEB-INF/plugins/jpuserreg/aps/jsp/externalFramework/userreg/`

User Recover

The page with the form to recover credentials for an User from username or email address. This page allows also to re-activate a disabled user.

This page must be configured with the showlet `User Recover` (code `jpuserreg_Recover`).

You need to customize the following jsp¹:

- `recover/recoverUser.jsp` : this is the form for recovering the account from email or from username.
- `recover/confirmedRecoverRequest.jsp` : shows a message to confirm the request for user recover and the sending of an email to complete the procedure.

User Reactivation

The page to complete the user recover. Allows the user to set a new password. It isn't a visible page, but an user can access here with a link in the mail sent after the recover request.

This page must be configured with the showlet `User Reactivation` (code `jpuserreg_Reactivation`).

You need to customize the following jsp¹:

- `activation/reactivateUser.jsp` : contains form to complete an user reactivation with password definition.
- `activation/reactivateUserError.jsp` : shows the error message for reactivation of an account with invalid or expired ticket.
- `activation/confirmedUserReactivation.jsp` : shows the message for successfully happened reactivation of account

User Suspension

The page to disable an user.

This page must be configured with the showlet `User Suspension` (code `jpuserreg_Suspension`).

You need to customize the following jsp¹:

- `suspension/confirmSuspend.jsp` : form for account suspension request.

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