
Joget DX

Localizing your Joget

 <http://facebook.com/jogetworkflow>

 <http://twitter.com/jogetworkflow>

Prerequisites

- Understand various components of Joget and able to build application as a Joget App Developer
- Understand Hash Variables

Content

1. Localizing Joget
2. User Locales
3. Localizing App Using Advanced Tools
4. Localizing App Using Hash Variable



Chapter 1

Localizing Joget

Internationalization Support on Joget App

- You may support multiple locales on your designed apps as defined in the system settings.
- User may opt for their own preferred locale set by the settings.

Localizing Joget Into Your language

- By default, Joget has a set languages embedded.
- Maintained at translate.joget.org



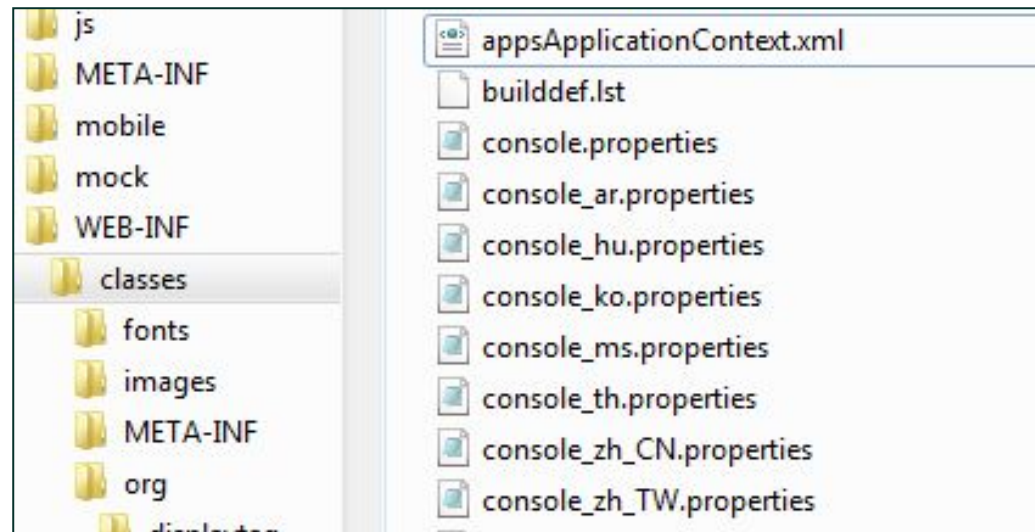
The screenshot displays three stacked panels of the Joget User Interface Builder, each representing a different language localization. Each panel has a red border highlighting its title bar and navigation tabs.

- Top Panel (Chinese):** Title bar shows "用户界面设计器 Purchase Requisition v2: Purchase Requisition (已发布)". Navigation tabs include "设计用户界面", "设置", "预览", and "保存".
- Middle Panel (Korean):** Title bar shows "사용자 보기 빌더 Purchase Requisition v2: Purchase Requisition (발표된)". Navigation tabs include "사용자 보기를 디자인하다", "설정", "미리보기", and "저장하다".
- Bottom Panel (English):** Title bar shows "USERVIEW BUILDER Purchase Requisition v2: Purchase Requisition (Published)". Navigation tabs include "DESIGN USERVIEW", "SETTINGS", "PREVIEW", and "SAVE".

The main workspace shows a form titled "Purchase Requisition" with a "Click to edit" prompt and a "Logout" button. The date format is displayed as "#date.EEE, d MMM yyyy#". A sidebar on the left lists "Basic" components: Form, HTML Page, and Inbox. The top right of the workspace includes "Undo | Redo" and "Advanced Tools" buttons.

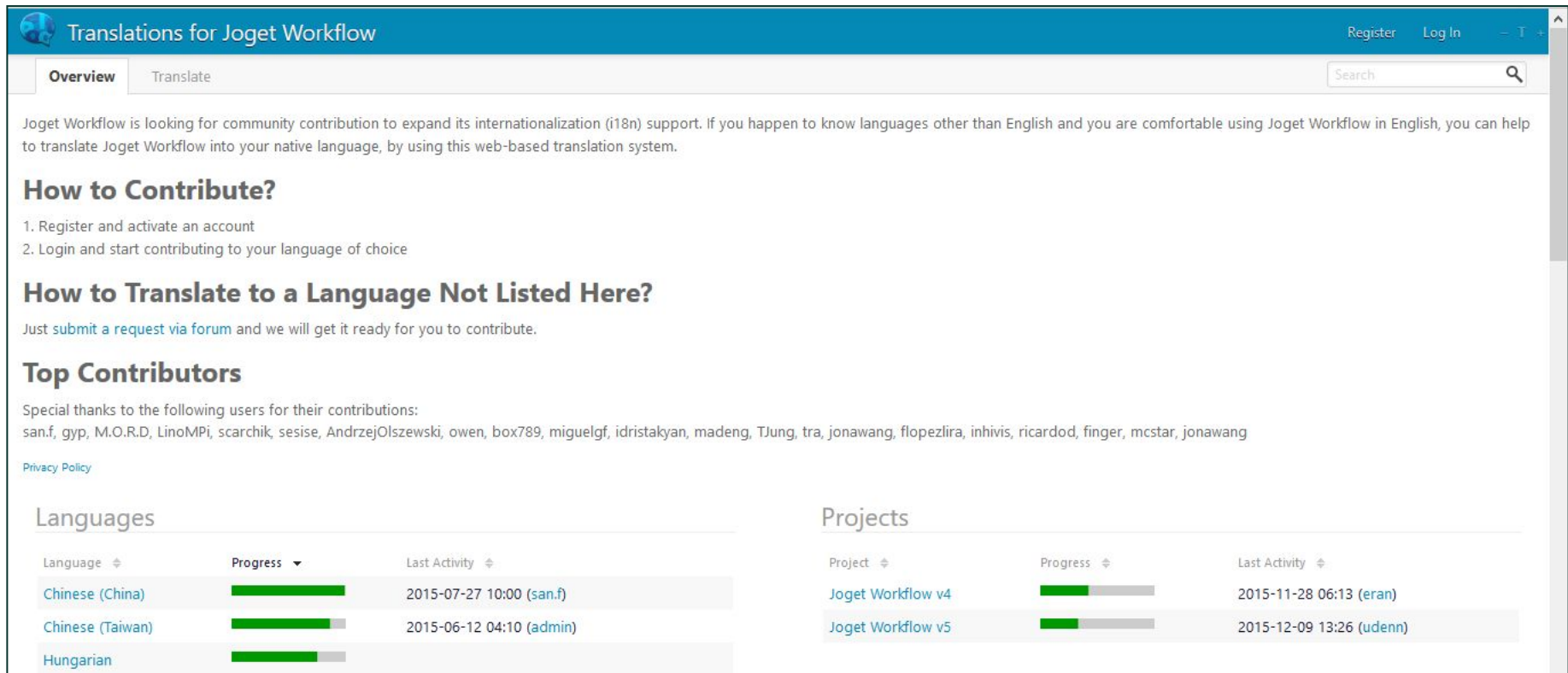
How to Inspect Available Languages?

- Check for .properties files in
 \tomcat\webapps\jw\WEB-INF\classes
- Check for **postfix** of the .properties files denoting the locale.



Translation Community

- You are welcomed to join the online translation community at translate.joget.org



The screenshot shows the 'Translations for Joget Workflow' website. The header includes a search bar and links for 'Register' and 'Log In'. The main content area has tabs for 'Overview' and 'Translate'. A paragraph explains the goal of expanding internationalization support. Below this are sections for 'How to Contribute?' (listing registration and login steps), 'How to Translate to a Language Not Listed Here?' (with a link to submit a request), and 'Top Contributors' (listing several user names). At the bottom, there are two tables: 'Languages' and 'Projects', both showing progress bars and last activity dates.

Translations for Joget Workflow

Register Log In

Overview Translate Search

Joget Workflow is looking for community contribution to expand its internationalization (i18n) support. If you happen to know languages other than English and you are comfortable using Joget Workflow in English, you can help to translate Joget Workflow into your native language, by using this web-based translation system.

How to Contribute?

1. Register and activate an account
2. Login and start contributing to your language of choice

How to Translate to a Language Not Listed Here?

Just [submit a request via forum](#) and we will get it ready for you to contribute.

Top Contributors

Special thanks to the following users for their contributions:
 san.f, gyp, M.O.R.D, LinoMPi, scarchik, sesise, AndrzejOlszewski, owen, box789, miguelgf, idristakyan, madeng, TJung, tra, jonawang, flopezlira, inhivis, ricardod, finger, mcstar, jonawang

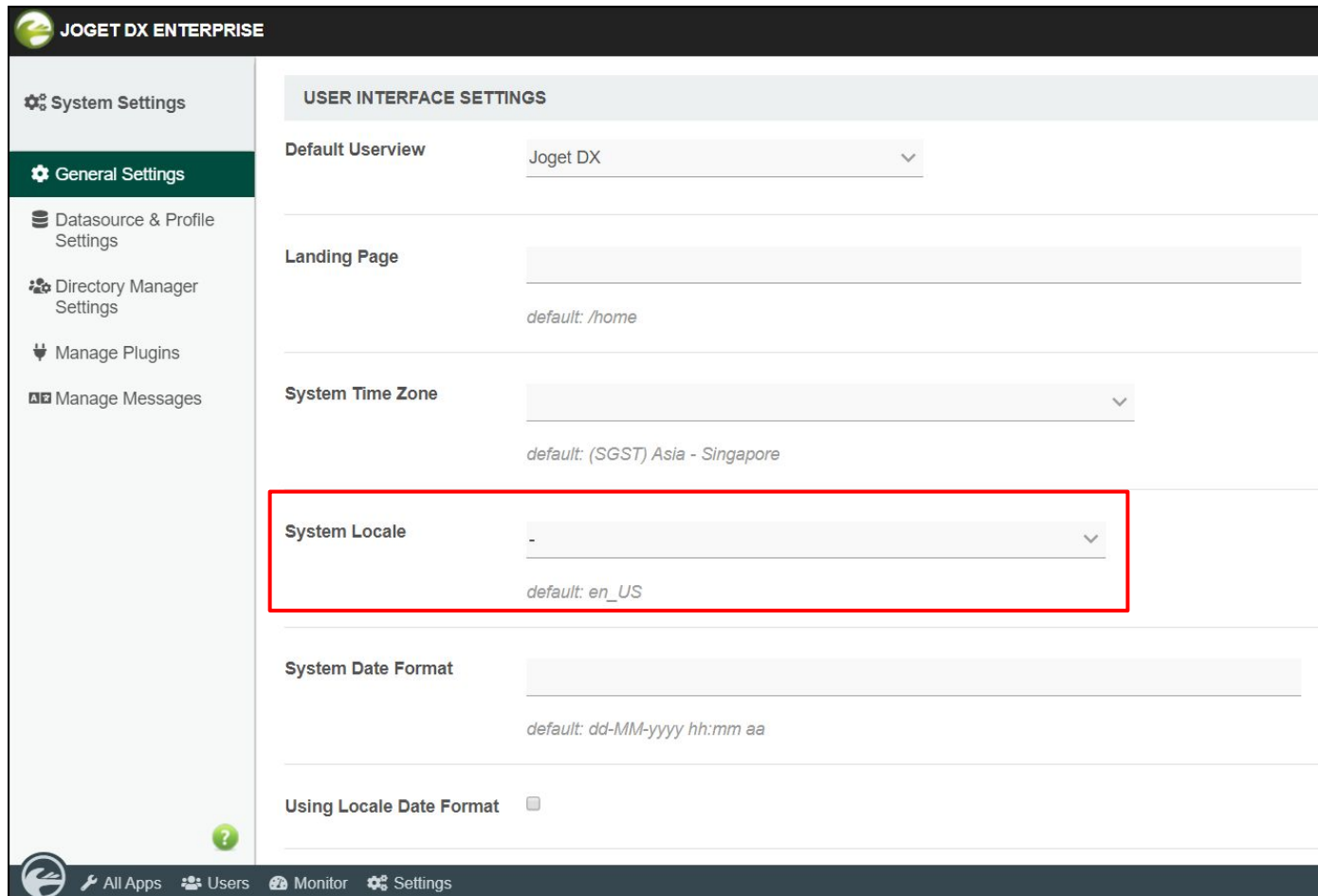
[Privacy Policy](#)

Language	Progress	Last Activity
Chinese (China)	<div style="width: 100%;"></div>	2015-07-27 10:00 (san.f)
Chinese (Taiwan)	<div style="width: 80%;"></div>	2015-06-12 04:10 (admin)
Hungarian	<div style="width: 50%;"></div>	

Project	Progress	Last Activity
Joget Workflow v4	<div style="width: 70%;"></div>	2015-11-28 06:13 (eran)
Joget Workflow v5	<div style="width: 60%;"></div>	2015-12-09 13:26 (udenn)

Switching System Locale

- Settings --> General Settings --> System Locale



The screenshot displays the 'JOGET DX ENTERPRISE' settings interface. On the left, a sidebar menu includes 'System Settings', 'General Settings' (highlighted), 'Datasource & Profile Settings', 'Directory Manager Settings', 'Manage Plugins', and 'Manage Messages'. The main content area is titled 'USER INTERFACE SETTINGS' and contains several configuration items: 'Default Userview' (set to 'Joget DX'), 'Landing Page' (with a default of '/home'), 'System Time Zone' (with a default of '(SGST) Asia - Singapore'), 'System Locale' (highlighted with a red box, currently set to '-'), 'System Date Format' (with a default of 'dd-MM-yyyy hh:mm aa'), and 'Using Locale Date Format' (unchecked). The bottom navigation bar shows icons for 'All Apps', 'Users', 'Monitor', and 'Settings'.

Exercise: Switching Locale

- Switch to one of the available languages found in the system files earlier.
- System may take a few moments to refresh its cache.

Exercise: Importing PO File

- Go to *translate.joget.org*
- **Select** a language
- **Download** the .po files
- Select the downloaded file and upload. Go to **System Settings -> Manage Messages -> Import PO File**
- Switch to the new locale and observe.
- NOTE: Do **NOT** upload .zip bundle file.

Chapter 1 Review

- Change Joget locale.
- Import new locale.



Chapter 2

User Locales

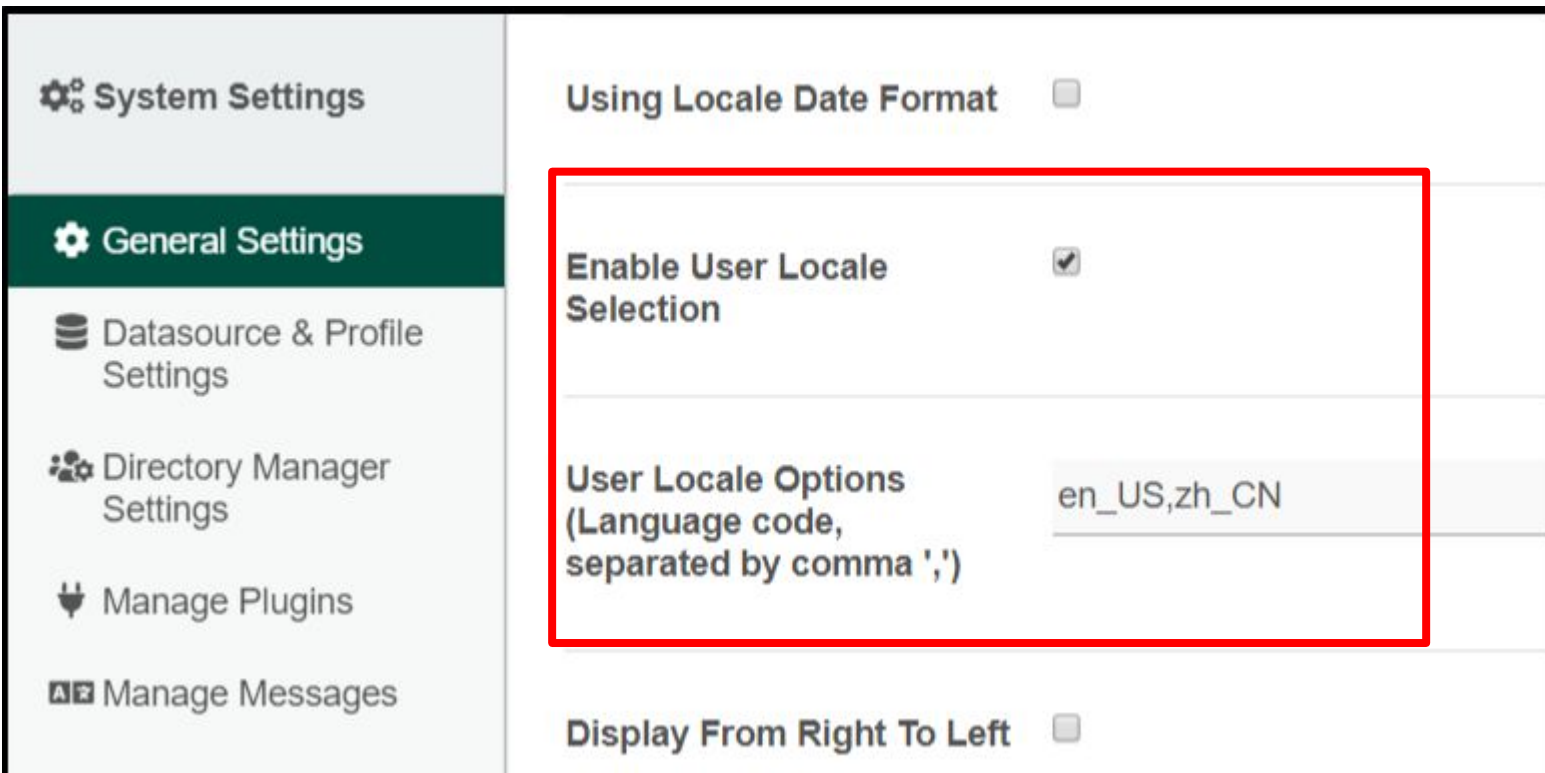
User Locale

- Joget administrator may define multiple locales available for selection by the end users.
- User may opt for their own preferred locale based on the selections above in his/her profile.
 - E.g. **cat** navigates the web console in **English**, while **clark** is able to navigate the same page in **Chinese**.

Note: User locale will take precedence over the system locale

Enable User Locale Options

- Settings -> General Settings



The screenshot shows the 'General Settings' page in the Joget system. The left sidebar contains a list of settings categories: System Settings, General Settings (highlighted), Datasource & Profile Settings, Directory Manager Settings, Manage Plugins, and Manage Messages. The main content area shows several settings:

- Using Locale Date Format**:
- Enable User Locale Selection**: (This setting is highlighted with a red box in the original image)
- User Locale Options (Language code, separated by comma ',')**: (This setting is also highlighted with a red box in the original image)
- Display From Right To Left**:

User Profile Userview Menu

- User locale selection can also be found in the Userview itself through the **User Profile Userview Menu**.

MY PROFILE

User Details

Username	admin
First Name	Admin
Last Name	Admin
Email	
Time Zone	(GMT 00:00) Casablanca, Dublin, Edinburgh, London, Lisbon, Monrovia
Locale	<div>en_US - English (United States) zh_CN - Chinese (China)</div>
Change Password	
Password	

Note

- You can easily switch the locale by manipulating any URL served by Joget.
- Add “_lang” parameter with the locale code as the value.

The screenshot shows the Joget DX Enterprise Edition web interface. The browser address bar displays the URL `localhost:8080/jw/web/userview/appcenter/v/_/home/?_lang=zh_CN`, with the `?_lang=zh_CN` part highlighted in red. The interface is in Chinese and shows a sidebar with navigation options like "设计应用" (Design Applications), "表单&UI" (Forms & UI), and "外加设计器" (External Designer). The main content area is titled "Expenses Claim" and contains three columns of application cards: "创建新表单" (Create New Form), "新建数据列表" (New Data List), and "创建用户界面" (Create User Interface). The "创建新表单" column lists various expense-related forms, the "新建数据列表" column lists data tables, and the "创建用户界面" column lists user interfaces. The interface also includes a search bar, a "显示标签" (Show Tags) button, and a "更新" (Update) button.

Chapter 2 Review

- Enable User Locale Options.
- Experience the changes as End User.



Chapter 3

Localizing App using Advanced Tools

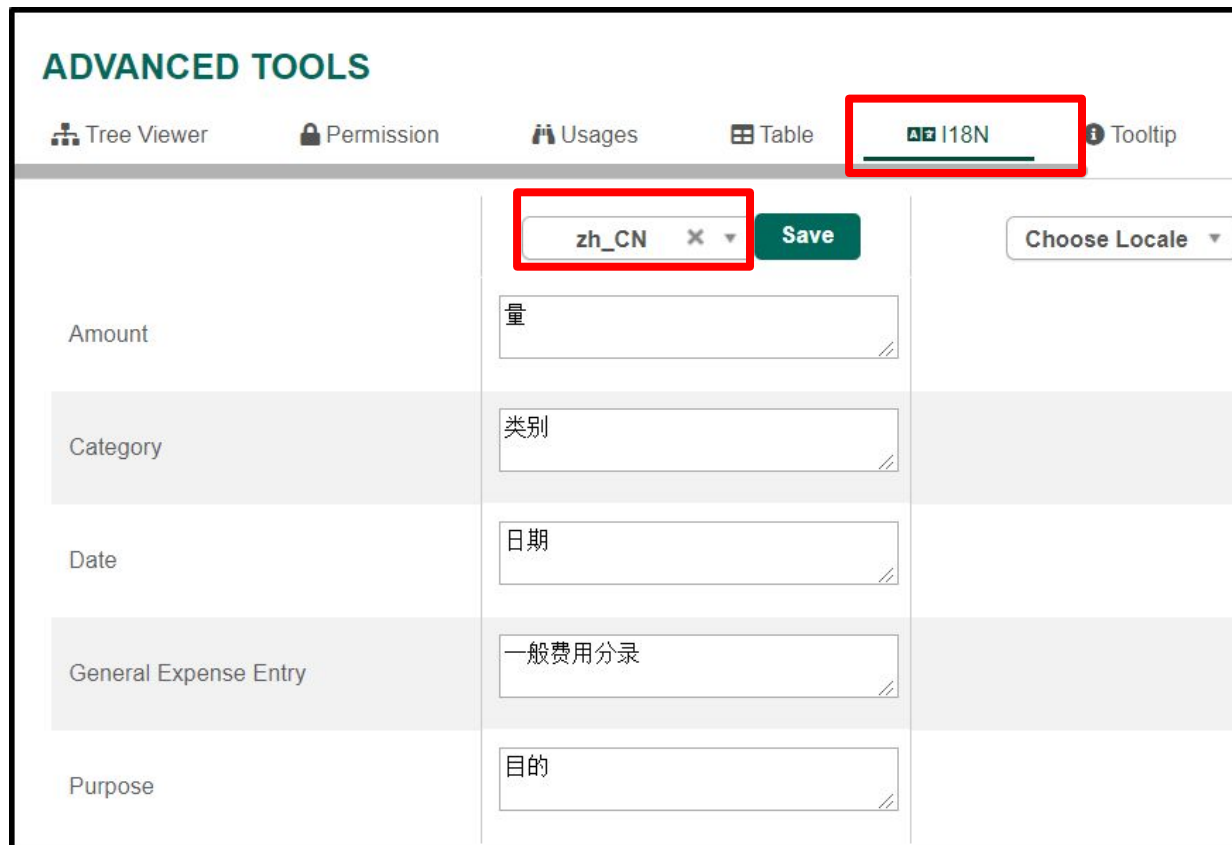
Accessing i18n Tab

- From your Form/Datalist/Userview Builder, click on **Advanced Tools** to access i18n tab.

The screenshot displays the Joget Form Builder interface for a form titled "Expenses Claim v2: Expense Claim Entry (Published)". The interface includes a top navigation bar with tabs for "DESIGN FORM", "PROPERTIES", "PREVIEW", "SAVE", and "GENERATE APP". A left sidebar contains a "Basic" tab with options for "Hidden Field", "Text Field", "Password Field", and "Text Area". The main workspace shows a form structure with a "General Expense Entry" section containing a "Note" (This is a hidden form used by spreadsheet element only) and a "claim" field. A red box highlights the "Advanced Tools" button in the top right corner of the workspace area.

Accessing i18n Tab

- Click on the i18n tab, choose a language and start translating.



The screenshot displays the 'ADVANCED TOOLS' interface with the following elements:

- Navigation Bar:** Contains icons and labels for 'Tree Viewer', 'Permission', 'Usages', 'Table', 'i18n' (highlighted with a red box), and 'Tooltip'.
- Language Selection:** A dropdown menu is open, showing 'zh_CN' (highlighted with a red box) and a 'Save' button.
- Table:** A table with columns for field names and their corresponding Chinese translations.

Field Name	Chinese Translation
Amount	量
Category	类别
Date	日期
General Expense Entry	一般费用分录
Purpose	目的

Accessing i18n Tab

- Remember to click **Save** when you are done.

The screenshot shows the 'ADVANCED TOOLS' interface with the 'i18n' tab selected. The interface includes a navigation bar with options: Tree Viewer, Permission, Usages, Table, i18n (selected), and Tooltip. Below the navigation bar, there is a locale selector showing 'zh_CN' and a 'Save' button, which is highlighted with a red box. To the right of the 'Save' button is a 'Choose Locale' dropdown menu. The main content area displays a table with the following fields:

Field	Value
Amount	量
Category	类别
Date	日期
General Expense Entry	一般费用分录
Purpose	目的

Accessing Tooltip Tab

- Click on the Tooltip tab, choose a language and start adding tooltips.

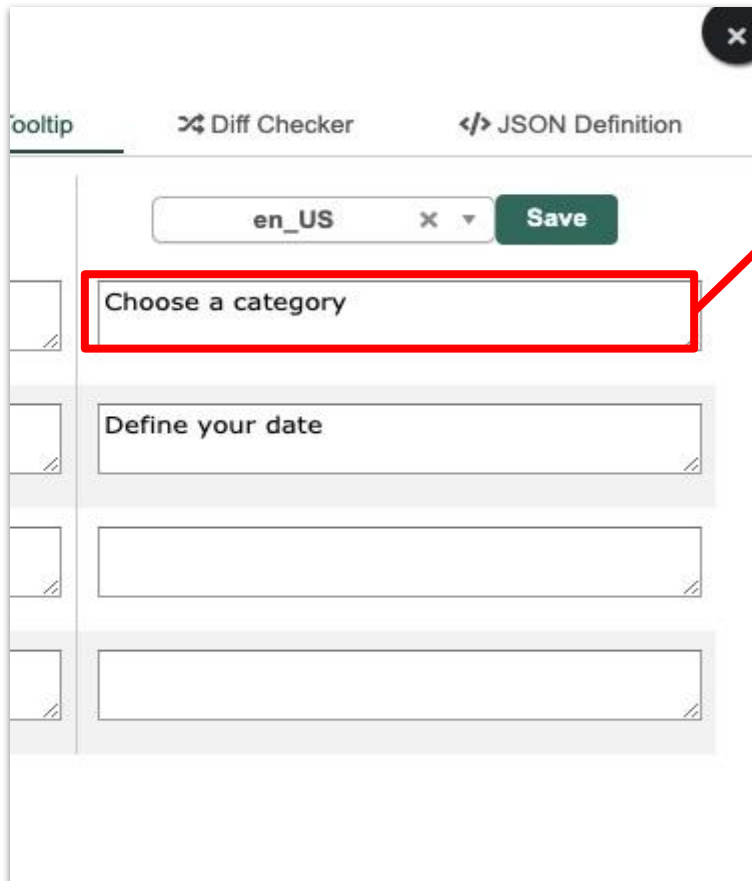
ADVANCED TOOLS

Tree Viewer Permission Usages Table I18N **Tooltip** Diff Checker JSON Definition

	zh_CN	en_US
Category (category)	类别	Choose a category
Date (date)	日期	Define your date
Purpose (purpose)	用途	
Amount (amount)	价格	

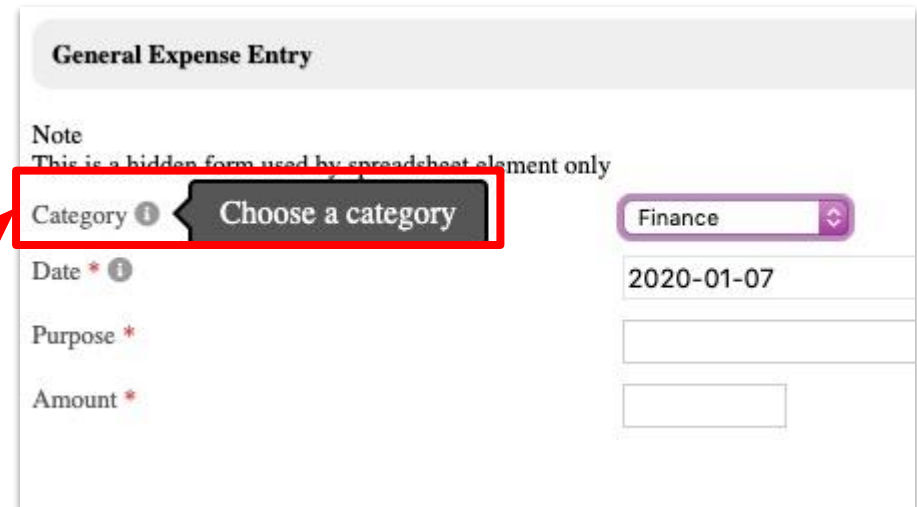
Tooltip i18n (New in DX)

- Tooltip on each element supports internationalization too.



Tooltip editor interface showing a tooltip with the following content:

- en_US
- Save
- Choose a category
- Define your date
- [Empty text input field]
- [Empty text input field]

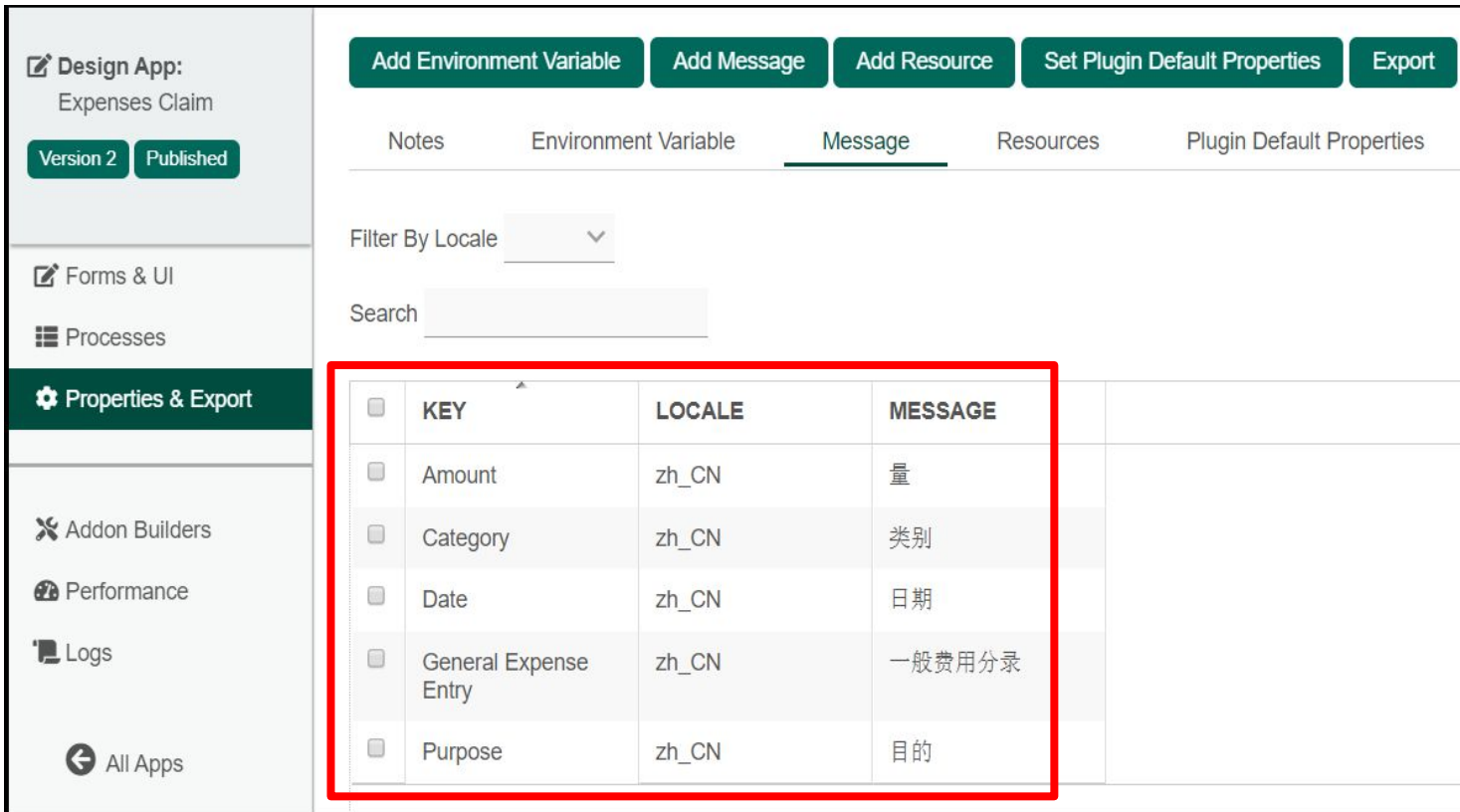


General Expense Entry form showing the tooltip for the Category field:

- Note: This is a hidden form used by spreadsheet element only
- Category: Choose a category
- Date: 2020-01-07
- Purpose: [Empty text input field]
- Amount: [Empty text input field]

Viewing Translations

- All translations made will be saved into the app's message.
- You can verify translated messages by going to App Properties -> Message.



The screenshot shows the 'Properties & Export' section of the Joget application. The 'Message' tab is selected, displaying a table of translations. The table has columns for 'KEY', 'LOCALE', and 'MESSAGE'. The translations are for the 'zh_CN' locale.

KEY	LOCALE	MESSAGE
Amount	zh_CN	量
Category	zh_CN	类别
Date	zh_CN	日期
General Expense Entry	zh_CN	一般费用分录
Purpose	zh_CN	目的

Chapter 3 Review

- Internationalize/Localize your own Joget App using Advanced Tools.



Chapter 4

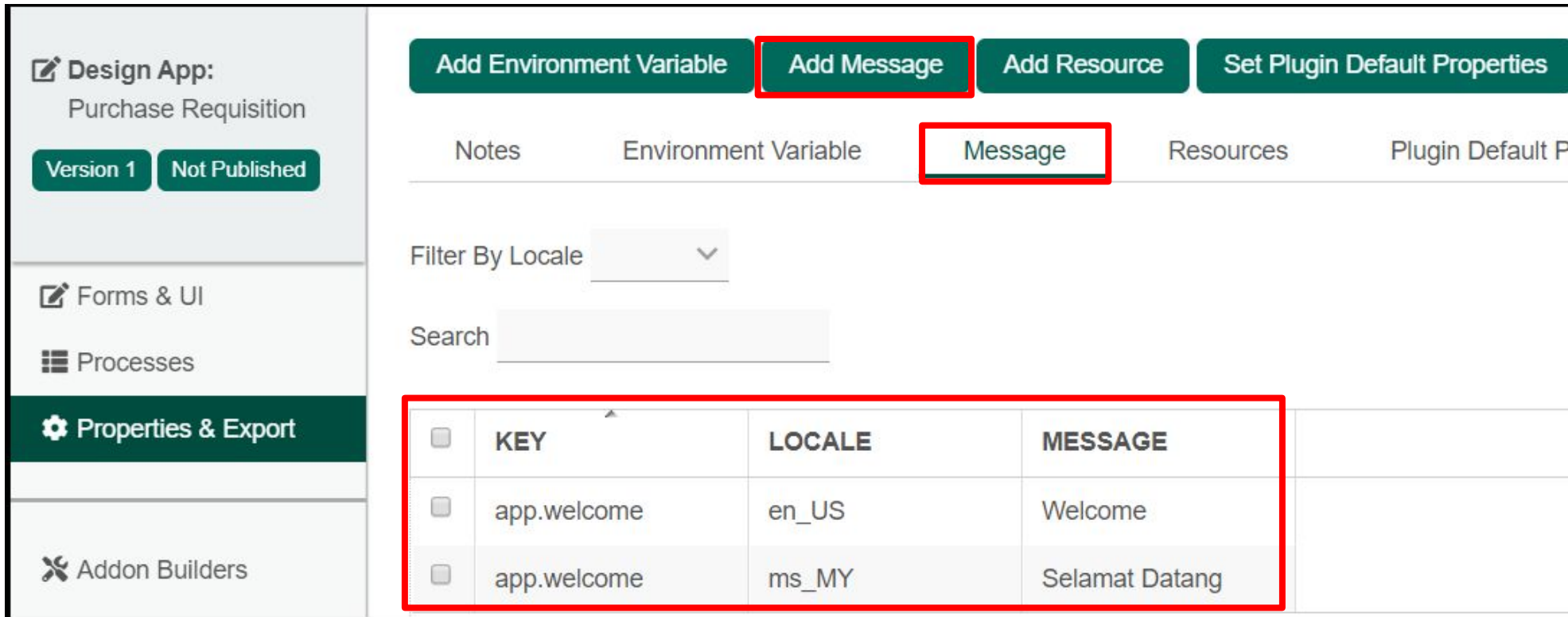
Localizing App using Hash Variable

Difference Between Using Advanced Tools and Hash Variable

- Advanced Tools covers **App-level** only.
- Hash Variables can cover BOTH **App** and **Platform-level**, not just limited to Form / Datalist / Userview Builder.
- For example, email message can be localized too.

Defining Message Keys (App)

- Go to **Properties & Export -> Message**
- Define set of message keys as shown below.

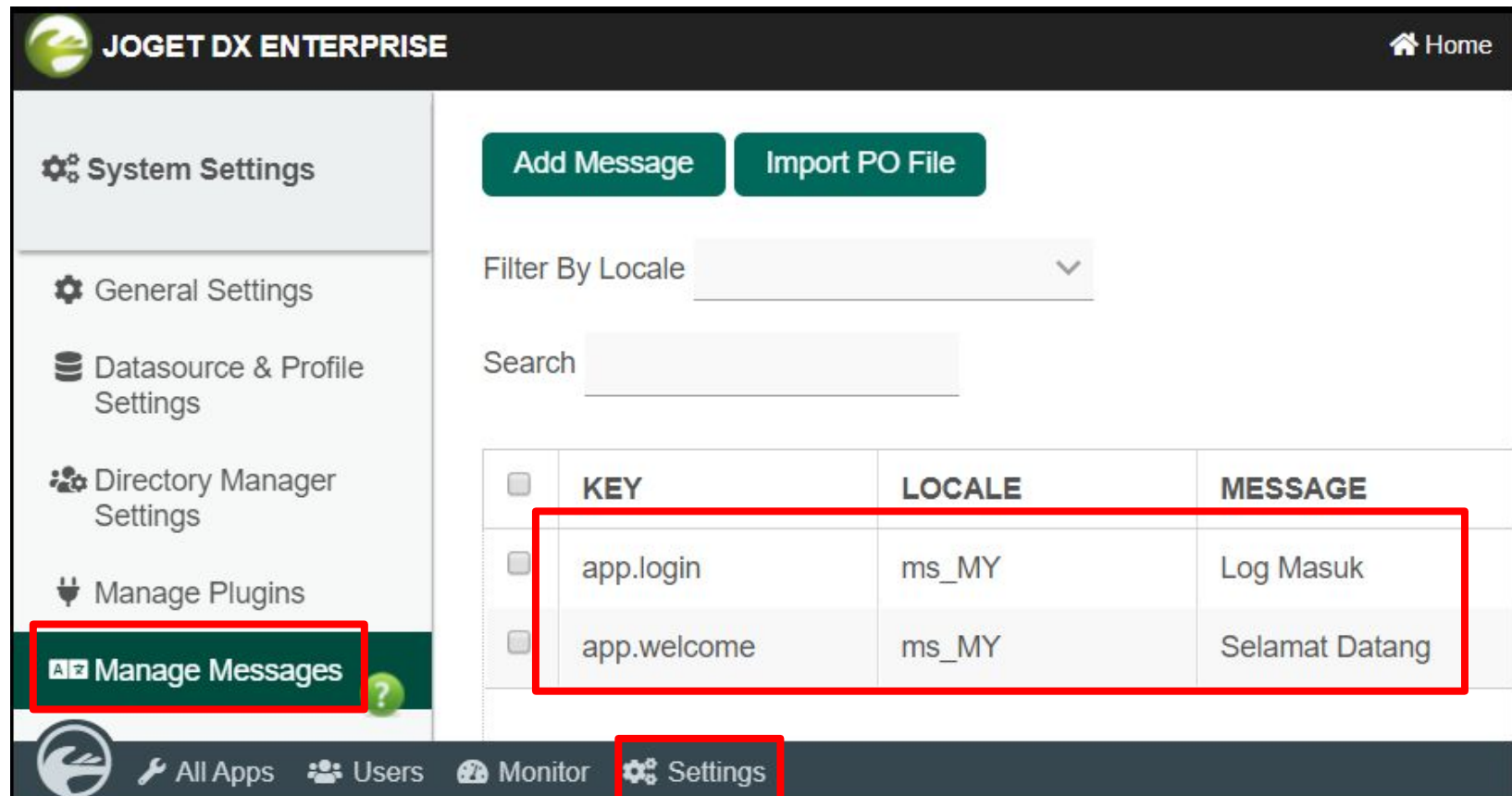


The screenshot shows the 'Properties & Export' section of the Joget application configuration interface. The 'Message' tab is selected, and the 'Add Message' button is highlighted. Below the tabs, there is a 'Filter By Locale' dropdown and a search input field. A table displays the defined message keys for the application.

<input type="checkbox"/>	KEY	LOCALE	MESSAGE
<input type="checkbox"/>	app.welcome	en_US	Welcome
<input type="checkbox"/>	app.welcome	ms_MY	Selamat Datang

Defining Message Keys (Platform)

- Go to **System Settings -> Manage Messages**
- Define set of message keys as shown below.



JOGET DX ENTERPRISE Home

System Settings

General Settings

Datasource & Profile Settings

Directory Manager Settings

Manage Plugins

Manage Messages

Add Message Import PO File

Filter By Locale

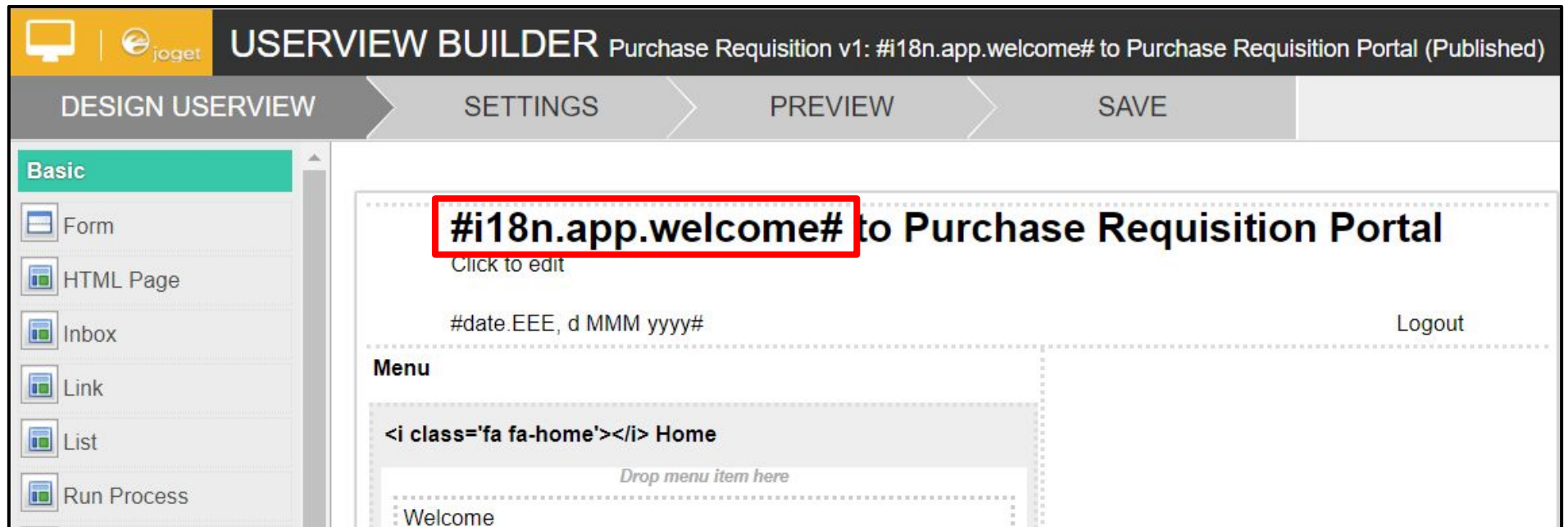
Search

	KEY	LOCALE	MESSAGE
<input type="checkbox"/>	app.login	ms_MY	Log Masuk
<input type="checkbox"/>	app.welcome	ms_MY	Selamat Datang

All Apps Users Monitor **Settings**

Utilizing Message Keys

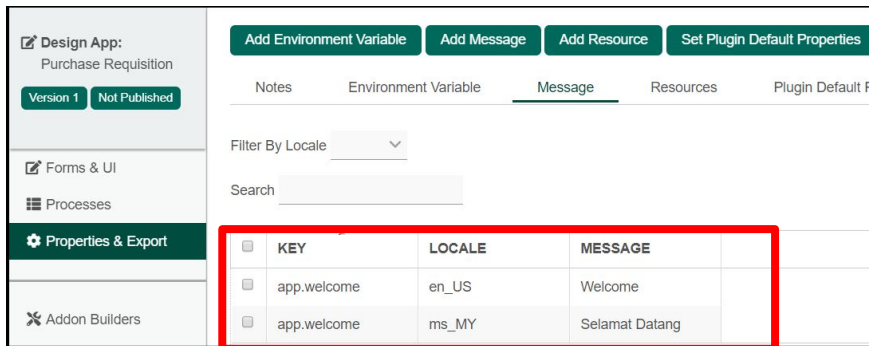
- By using the **#i18n# hash variable**, we can utilize the key values set earlier.



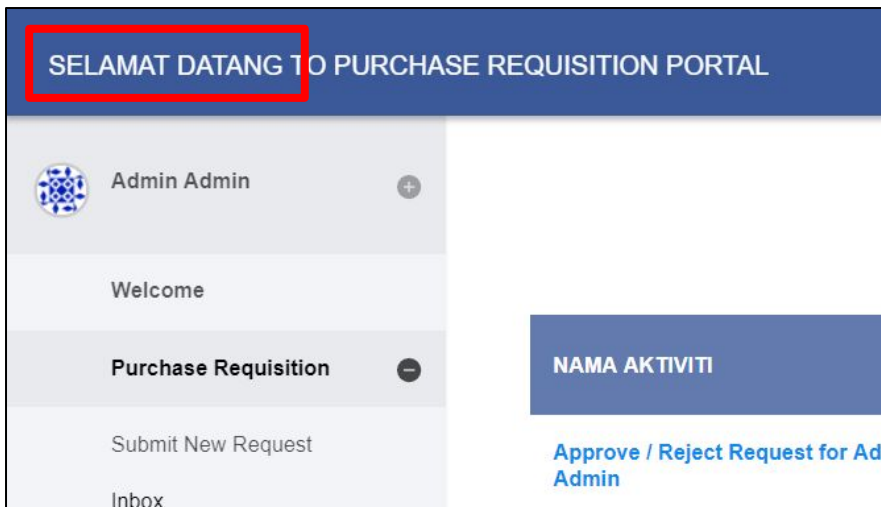
The screenshot displays the Joget UserView Builder interface for a user view titled "Purchase Requisition v1: #i18n.app.welcome# to Purchase Requisition Portal (Published)". The interface includes a navigation bar with "DESIGN USERVIEW", "SETTINGS", "PREVIEW", and "SAVE" tabs. On the left, a "Basic" widget palette lists "Form", "HTML Page", "Inbox", "Link", "List", and "Run Process". The main design area shows a user view with a header containing the message key **#i18n.app.welcome#** (highlighted with a red box) followed by "to Purchase Requisition Portal". Below the header is a "Click to edit" label and a date format `#date.EEE, d MMM yyyy#`. A "Logout" link is positioned on the right. A "Menu" section contains a home icon `<i class='fa fa-home'></i> Home` and a "Drop menu item here" placeholder. A "Welcome" message is visible at the bottom of the design area.

Viewing the Message Keys in Action

- Depending on the choice of locale the user is in, the message will be displayed accordingly.



KEY	LOCALE	MESSAGE
app.welcome	en_US	Welcome
app.welcome	ms_MY	Selamat Datang



SELAMAT DATANG TO PURCHASE REQUISITION PORTAL

Admin Admin

Welcome

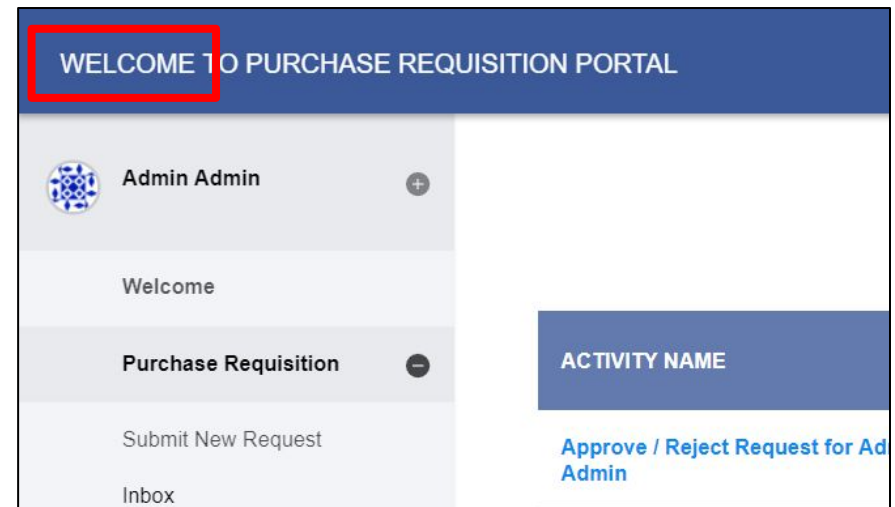
Purchase Requisition

Submit New Request

Inbox

NAMA AKTIVITI

Approve / Reject Request for Admin



WELCOME TO PURCHASE REQUISITION PORTAL

Admin Admin

Welcome

Purchase Requisition

Submit New Request

Inbox

ACTIVITY NAME

Approve / Reject Request for Admin

Mini Exercise

Let's say we want to change all the "Submit" button labels in all Form userview menus throughout the entire Joget platform. How can we do that?

- **general.method.label.save**

This key can be found in **console.properties**

Navigate to <https://github.com/jogetworkflow/jw-community/find/7.0-SNAPSHOT>, search for “console.properties”.

Question

How do we change locale if the user is anonymous?

<https://dev.joget.org/community/display/DX7/Change+User+Locale+In+Userview+Header>

Chapter 4 Review

- Internationalize/Localize your own Joget App using Hash Variable.
- Handle internationalization on app-level and platform-level.
- Contribute translations as a part of Joget community.

Module Review

- Localizing Joget
- User Locales
- Localizing App Using Advanced Tools
- Localizing App Using Hash Variable

Recommended Further Learning

- Learn more languages

Stay Connected with Joget

- www.joget.org
- community.joget.org
- twitter.com/jogetworkflow
- facebook.com/jogetworkflow
- youtube.com/jogetworkflow