



Localizing your RADS

<https://github.com/radservice/rad-community/fork>

Prerequisites

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

Content

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



Chapter I

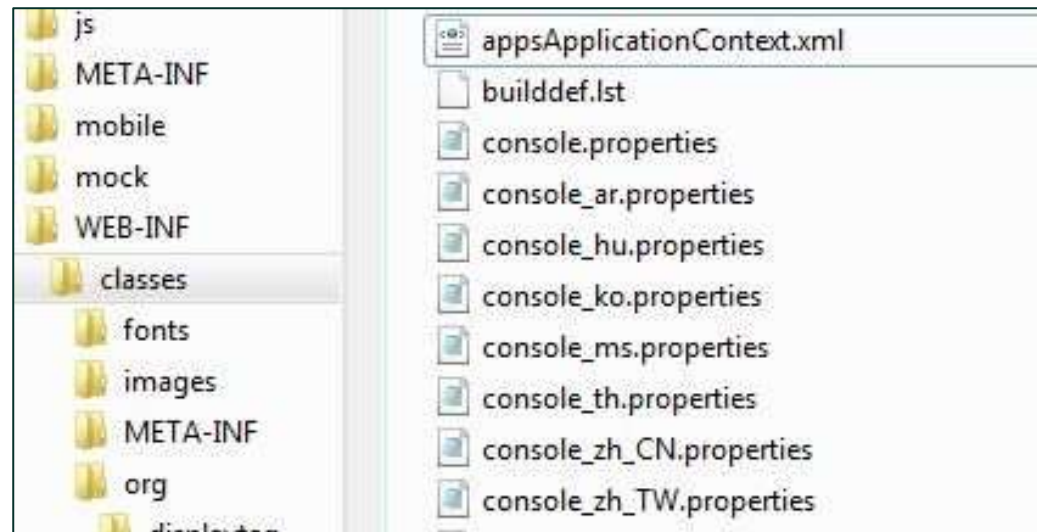
Localizing RADS

Internationalization Support on RADS 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.

How to Inspect Available Languages?

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



Switching System Locale

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

The screenshot displays the 'System Settings' interface for RAD Service. The left sidebar contains a menu with the following items: 'System Settings', 'General Settings', 'Datasource & Profile Settings', 'Directory Manager Settings', 'Manage Plugins', and 'Manage Messages'. The 'General Settings' section is currently selected. The main content area is titled 'SYSTEM' and includes the following settings:

- Version:** Shows 'RAD Service' with version '7.0-SNAPSHOT - build 1c71b1f' and an 'Upgrade' button.
- USER INTERFACE SETTINGS:**
 - Default Userview:** A dropdown menu set to 'RAD Service'.
 - Landing Page:** A text field containing 'default:/home'.
 - System Time Zone:** A dropdown menu set to 'default: (ICT) Asia - Bangkok'.
 - System Locale:** A dropdown menu set to 'default: en_US'. This section is highlighted with a red rectangular box.
 - System Date Format:** A text field containing 'default: dd-MM-yyyy hh:mm:ss'.
 - Using Locale Date Format:** A checkbox that is currently unchecked.

The bottom of the interface features a navigation bar with links to 'All Apps', 'Users', 'Monitor', 'Settings', and 'Support Online'.

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.

Chapter 1 Review

- Change RADS locale.
- Import new locale.



Chapter 2

User Locales

User Locale

- RADS 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' section of the RAD Service configuration. The left sidebar lists various settings categories, with 'General Settings' selected. The main content area displays several settings, with a red box highlighting the 'Enable User Locale Selection' checkbox (checked) and the 'User Locale Options' text input field. The text input field is currently empty.

Setting	Value
Use Locale for First Day of Week	<input type="checkbox"/>
Enable User Locale Selection	<input checked="" type="checkbox"/>
User Locale Options (Language code, separated by comma ',')	
Display From Right To Left	<input type="checkbox"/>

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

en_US - English (United States)

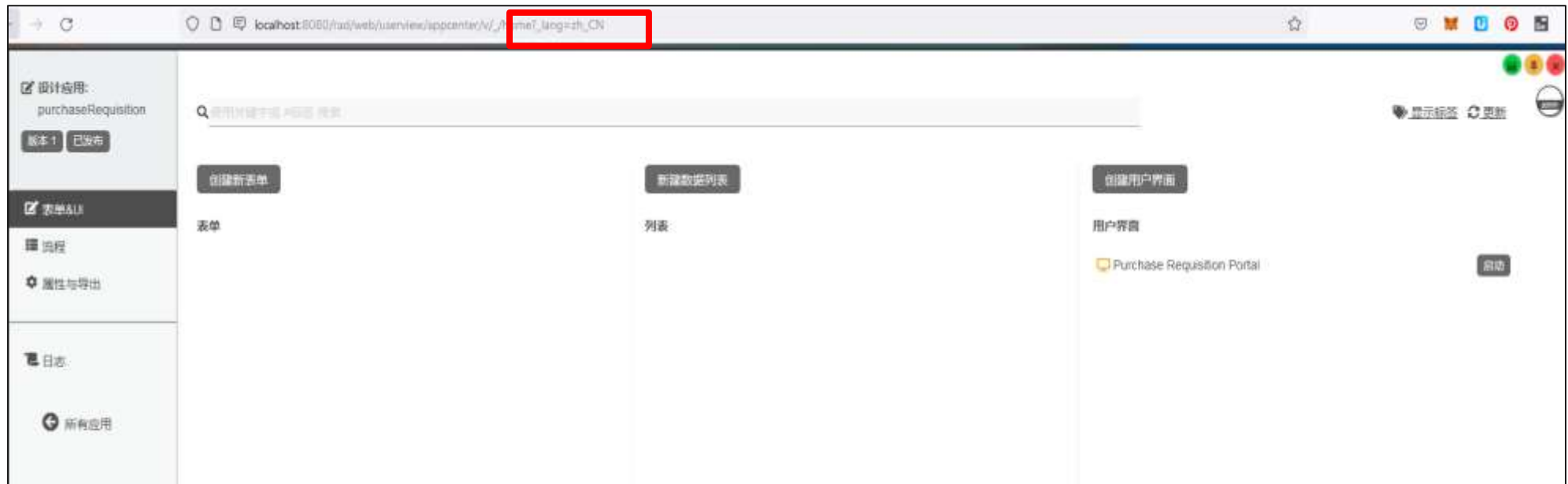
zh_CN - Chinese (China)

Change Password

Password

Note

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



Chapter 2 Review

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

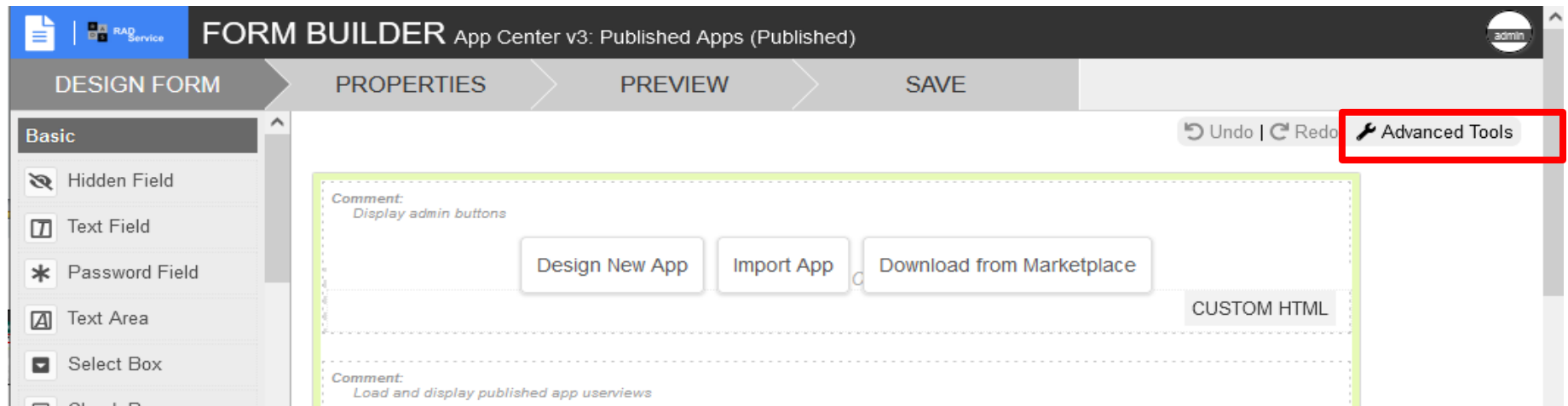


Chapter 3

Localizing App using Advanced Tools

Accessing i18n Tab

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



Accessing i18n Tab

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

ADVANCED TOOLS

Tree Viewer Permission Usages Table **i18n** Tooltip

zh_CN X Save Choose Locale

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.

ADVANCED TOOLS

Tree Viewer Permission Usages Table **i18N** Tooltip

zh_CN × **Save** Choose Locale ▾

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

- Tooltip on each element supports internationalization too.

The screenshot shows a form editor interface with a top bar containing 'Tooltip', 'Diff Checker', and 'JSON Definition' tabs. Below the tabs, there is a language selector set to 'en_US' and a 'Save' button. The main form area contains several input fields. The first field, labeled 'Choose a category', is highlighted with a red box. A red arrow points from this box to a tooltip that appears over the field. The tooltip has a dark background and contains the text 'Choose a category' in white. Below the first field are three more empty input fields, each with a small 'x' icon in the top right corner.

The screenshot shows a 'General Expense Entry' form. At the top, there is a 'Note' section with the text 'This is a hidden form used by spreadsheet element only'. Below the note, there are several input fields. The 'Category' field is highlighted with a red box. A tooltip appears over this field, containing the text 'Choose a category'. To the right of the 'Category' field is a dropdown menu currently showing 'Finance'. Below the 'Category' field are three more input fields: 'Date' (containing '2020-01-07'), 'Purpose', and 'Amount'. Each of these fields has a small 'x' icon in the top right corner.

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 RAD Studio interface with the 'Design App: Expenses Claim' project. The 'Properties & Export' section is active, and the 'Message' tab is selected. A table of translations is displayed, with a red box highlighting the data rows.

	KEY	LOCALE	MESSAGE
<input type="checkbox"/>	Amount	zh_CN	量
<input type="checkbox"/>	Category	zh_CN	类别
<input type="checkbox"/>	Date	zh_CN	日期
<input type="checkbox"/>	General Expense Entry	zh_CN	一般费用分录
<input type="checkbox"/>	Purpose	zh_CN	目的

Chapter 3 Review

- Internationalize/Localize your own RADS 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)

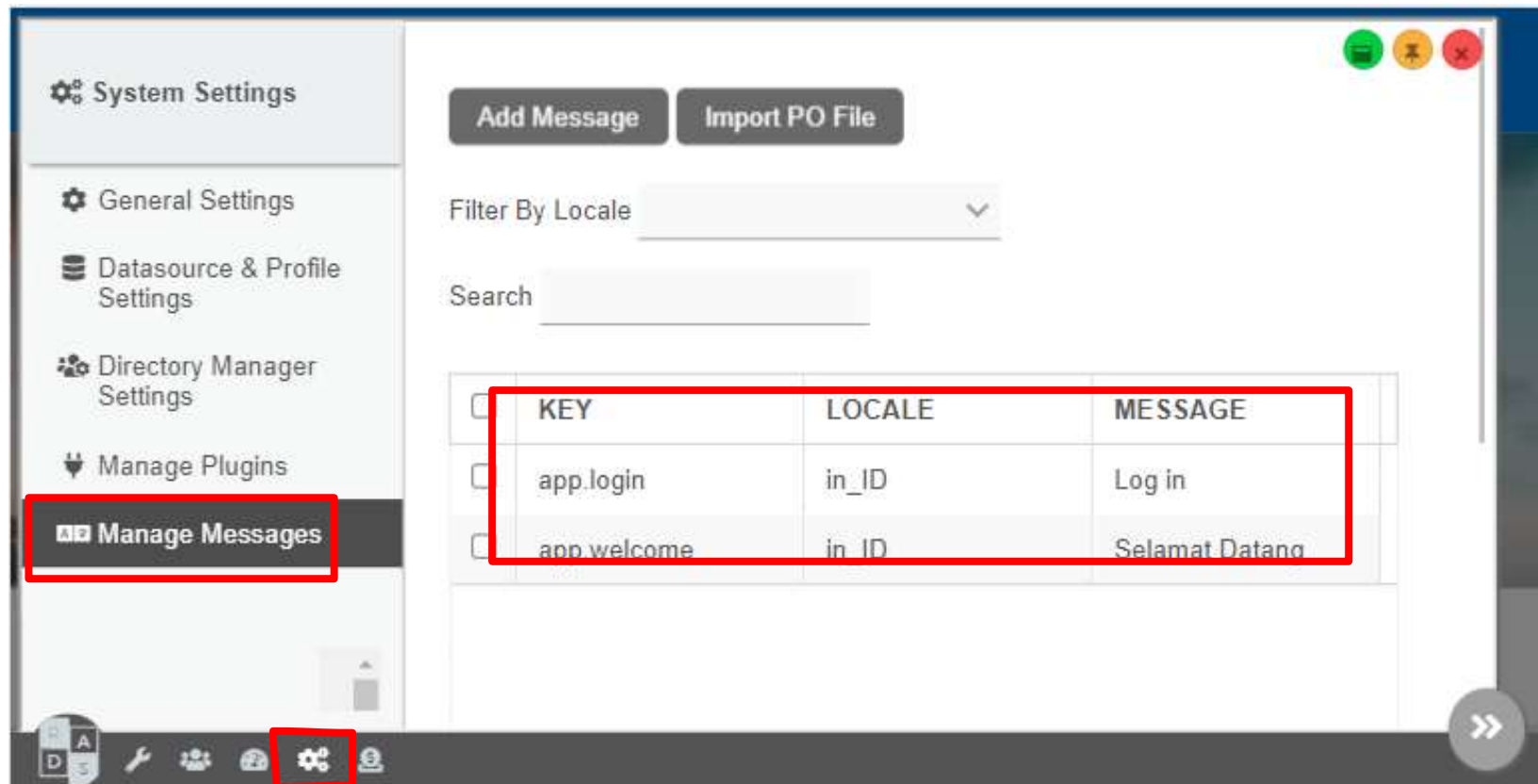
- Go to **Properties & Export -> Message**
- Define set of message keys as shown below.

The screenshot shows the 'Design App' interface for 'CRM Community'. The left sidebar has a 'Properties & Export' section with a 'Message' tab selected. The main area shows a table of message keys. The 'Add Message' button is highlighted in the top bar. The table has columns for KEY, LOCALE, and MESSAGE.

KEY	LOCALE	MESSAGE
About	zh_CN	??????
aboutpage	en_US	<h4 style="margin: 0px; padding: 0px; border-width: 0px; font-family: inherit;
aboutpage	zh_CN	<h4 style="margin: 0px; padding: 0px; border-width: 0px; font-family: inherit;

Defining Message Keys (Platform)

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



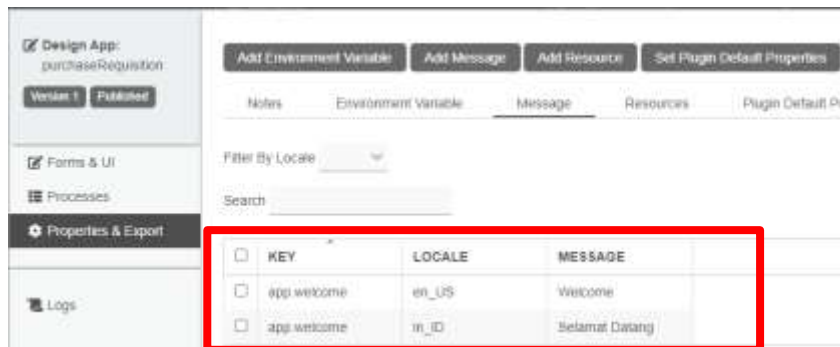
Utilizing Message Keys

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

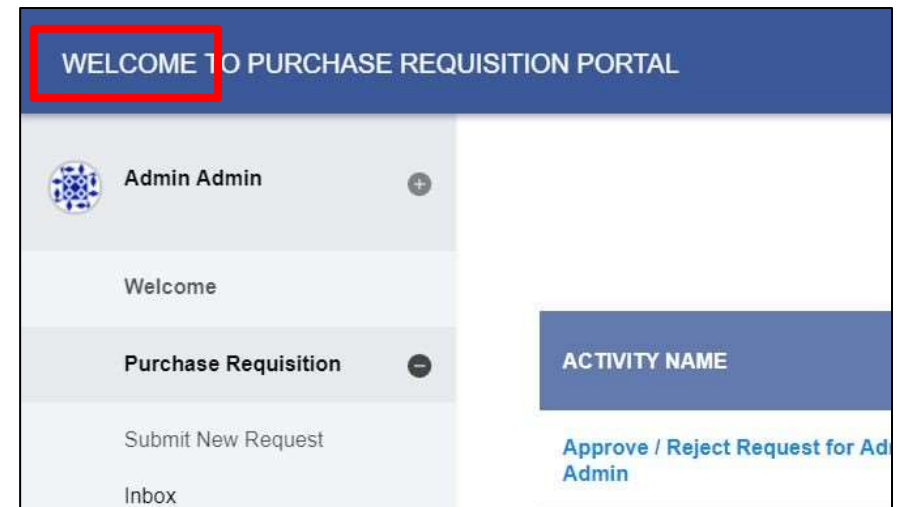
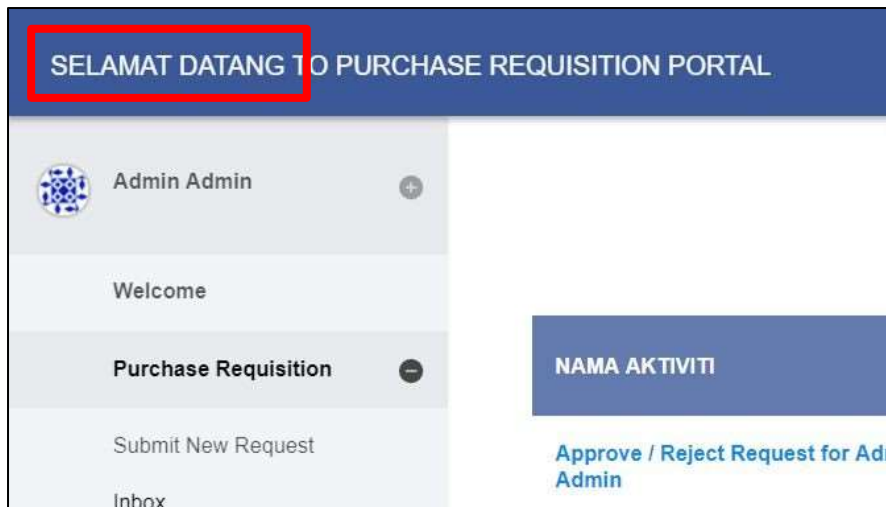
The screenshot displays the USERVIEW BUILDER interface for a 'purchaseRequisition v1: Purchase Requisition Portal (Published)'. The interface includes a top navigation bar with 'DESIGN USERVIEW', 'SETTINGS', 'PREVIEW', and 'SAVE' tabs. On the left, a 'Basic' sidebar lists components: Form, HTML Page, Inbox, Link, List, and Run Process. The main design area shows a text field containing the message key **#i18n.app.welcome#**, which is highlighted with a red box. Below this, there is a date format placeholder **#date.EEE, d MMM yyyy#** and a 'Menu' section with a 'Home' link and a 'Drop menu item here' placeholder. A 'Welcome' text element is also visible below the menu.

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	in_ID	Selamat Datang



Mini Exercise

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

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

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

Navigate to <https://github.com/radservice/rad-community/find/master>, search for “console.properties”.

Question

How do we change locale if the user is anonymous?

<https://docs.rads.purwana.net/Change+User+Locale+In+Userview+Header>

Chapter 4 Review

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

Module Review

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

Recommended Further Learning

- Learn more languages

Stay Connected with RADS

- rads.purwana.net
- <https://github.com/radservice/rad-community>