Joget DX

Using Your First Process Tool

http://facebook.com/**jogetworkflow**
http://twitter.com/**jogetworkflow**

Prerequisites

- Able to design a Process Flow.

- Understand the differences between activity and tool.

Content

1. Introduction to Process Tool

2. Using Email Tool in Process

3. Using Process Tool Plugin in Post Form Submission Processing

Chapter 1

Introduction to Process Tool

Plugin Types

Joget DX

App Builder Components & Supported Plugin Types

Userview Builder
- Userview Menu
- Userview Permission
- Userview Theme

Datalist Builder
- Datalist Binder
- Datalist Action
- Datalist Column Formatter
- Datalist Filter Type

Process Builder
- Deadline
- Process Participant
- Process Tool
- Process Form Modifier
- Decision Tool

Form Builder
- Form Element
- Form Load Binder
- Form Store Binder
- Form Options Binder
- Form Validator
- Form Permission
- Process Form Modifier
- Post Form Submission Processing
- Generator

Addon Builder

App Platform
- Audit Trail
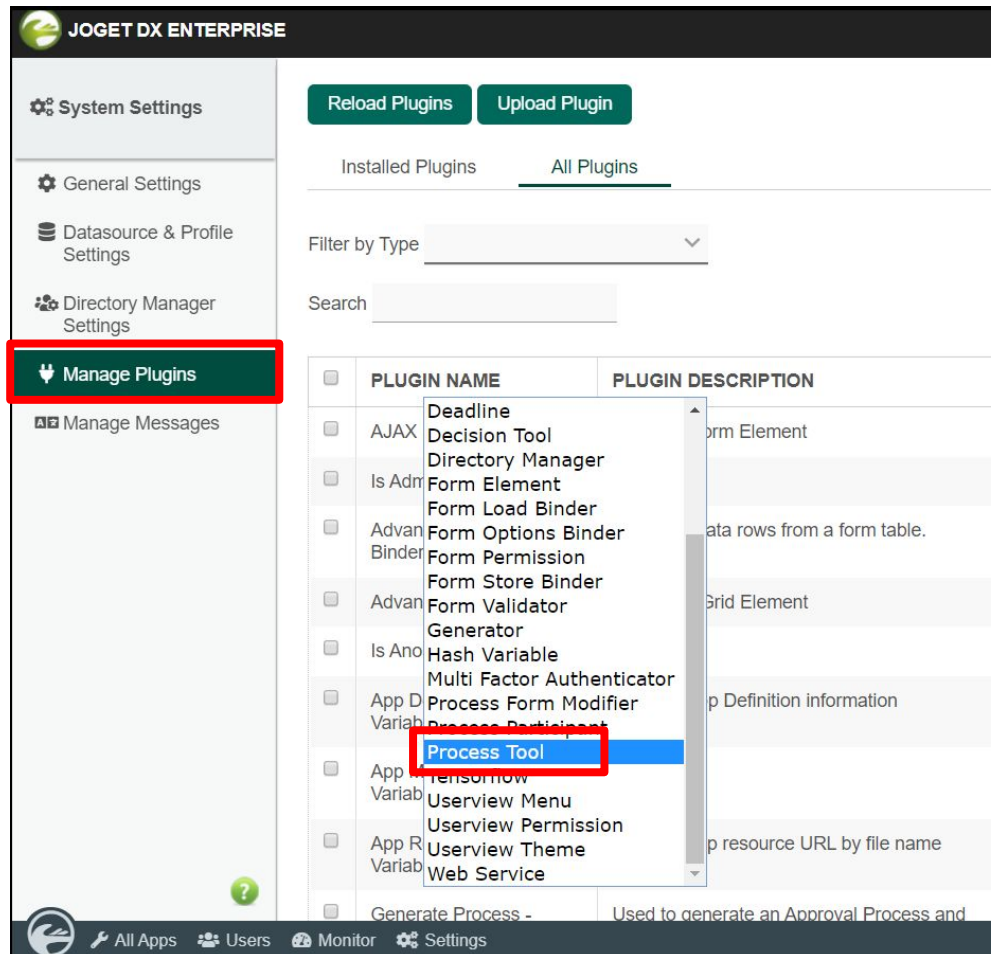- Hash Variable
- Web Service

Platform
- Directory Manager
- Web Service

What Does It Mean?

- Being a plugin, it means that it is possible to add/extend the default functionalities of what we already have.

Locating Available Process Tool Plugins
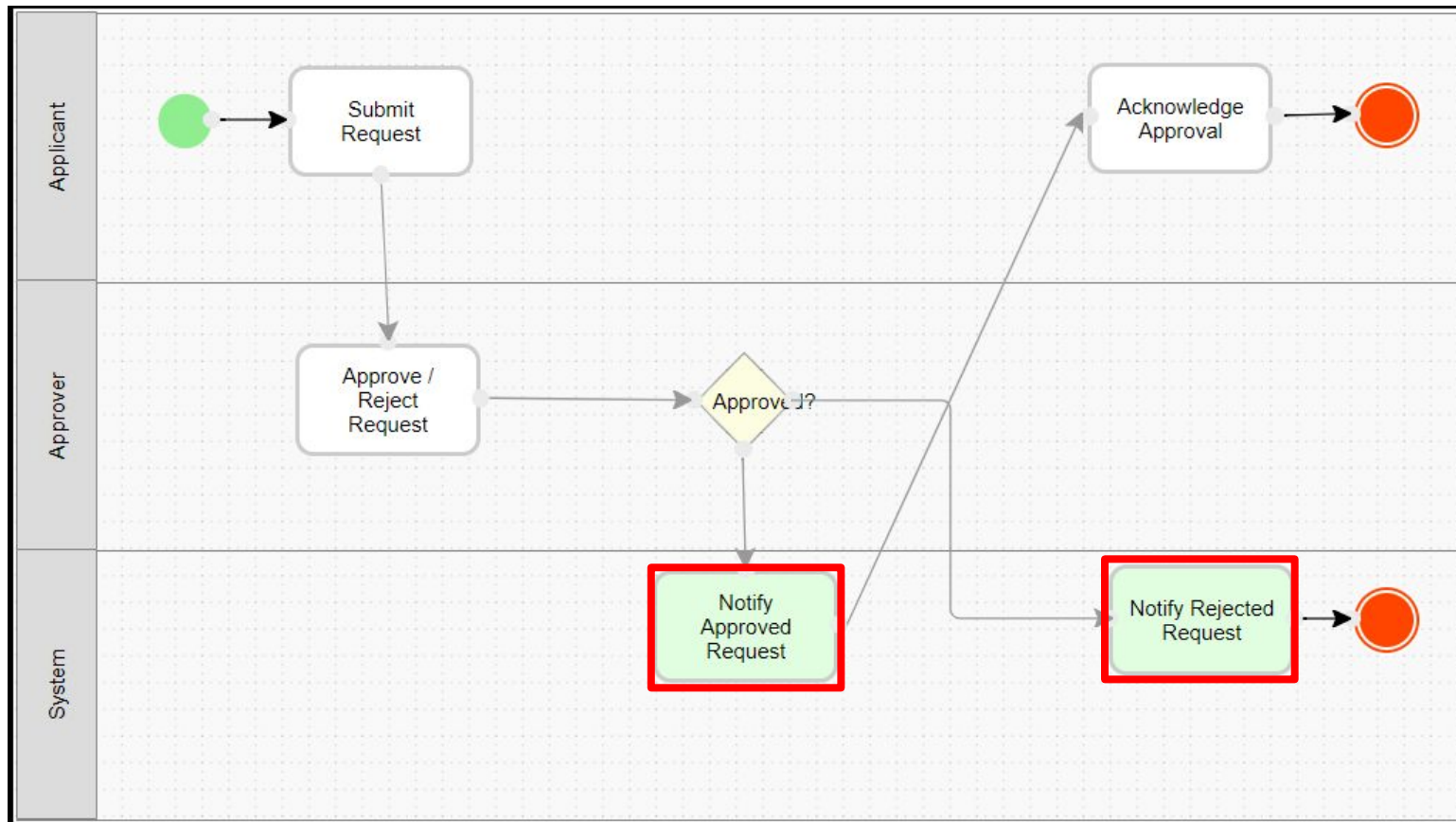
- **System Settings** -> **Manage Plugins** -> **Process Tool**

What Is a Process Tool?

- Process Tool plugin is used as part of the process flow – mapped to the Tool entity in a process flow.

Chapter Review

We have learnt to:

1. Understand Process Tool Plugin and being part of the Joget ecosystem.

2. Able to list down available Process Tool Plugins in the system.
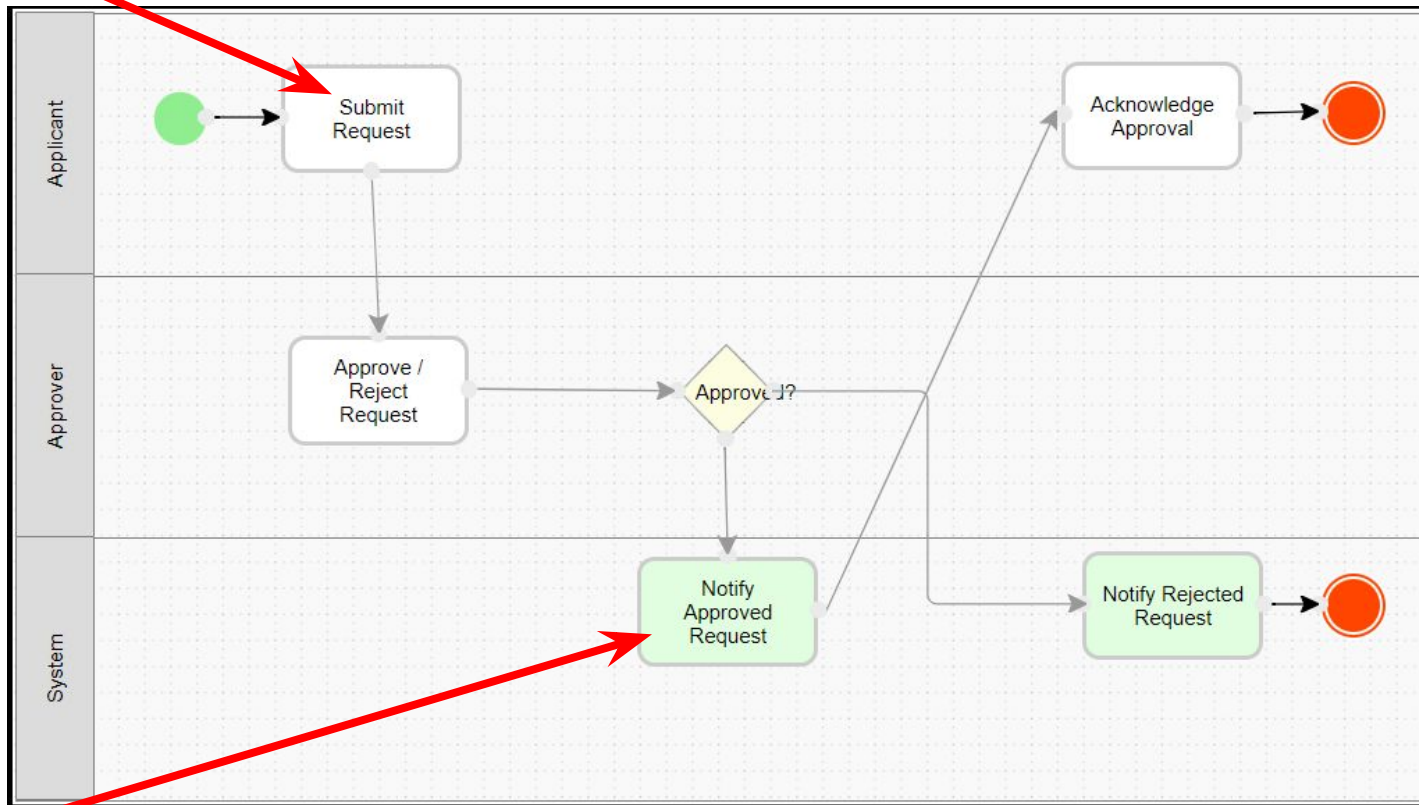
Chapter 2

Using the Email Tool In Process

Email Tool - Process Tool Plugin

- Email Tool is one of many Process Tool plugins available.

- Process Tool plugins are extensible through Joget's Plugin architecture.

Note About the Mapping

- Activity is mapped to Form

- Tool is mapped to Process Tool

Adding the Email Tool

- On "Map Tools to Plugins", click on "Add/Edit Plugin" for "Notify Rejected Request" tool.

Alternative Tool Plugin Mapping

- Click on "Configure Mapping" and click on "Notify Rejected Request" tool.
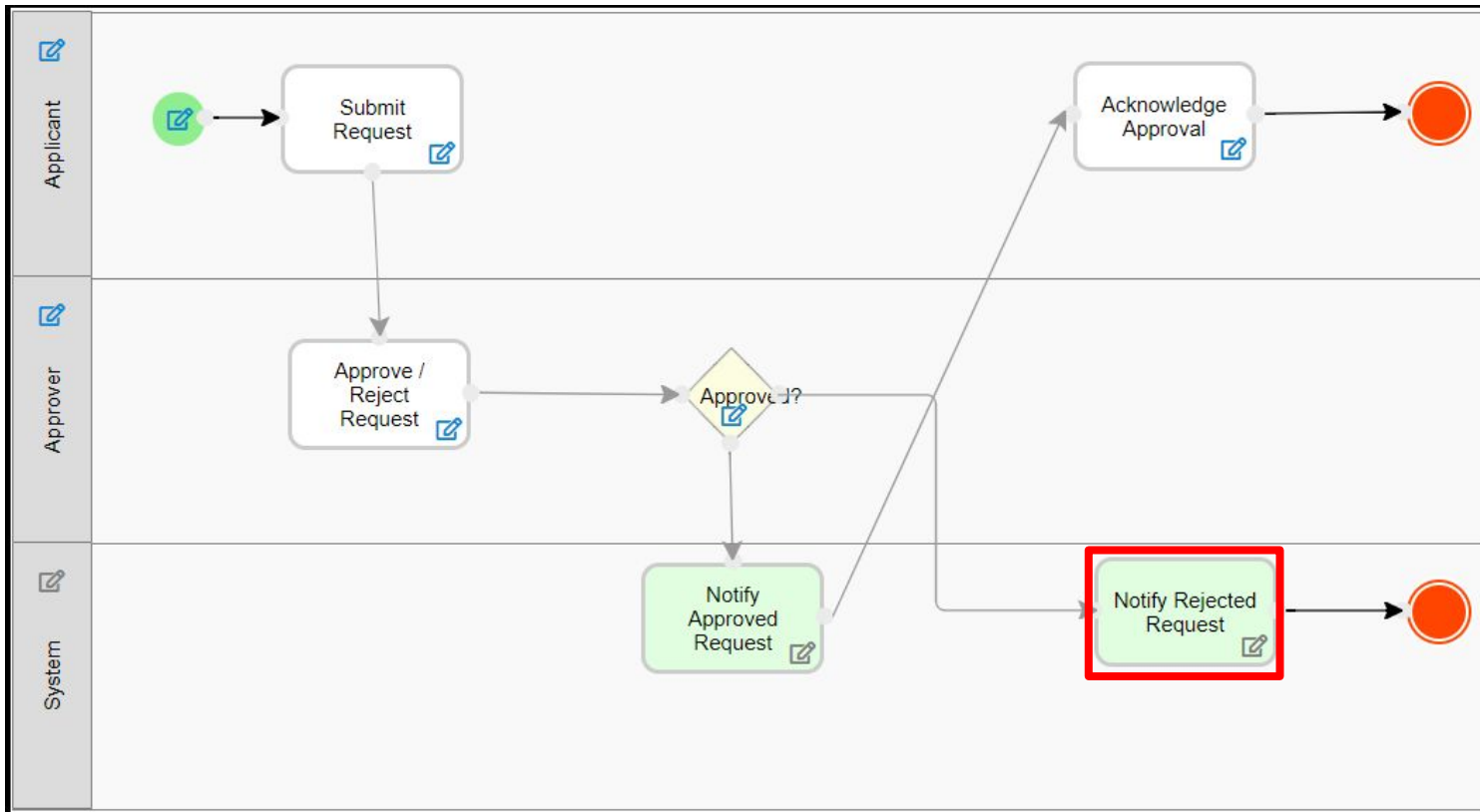
Configuring the Email Tool

- Select "Email Tool" from the available Process Tools.

Configuring the Email Tool

- Set up your mail information.
- Click "Next" to set up the email server.

Configuring the Email Tool

- Set up the email server.

PLUGIN CONFIGURATION - NOTIFY REJECTED REQUEST (NOTIFYREJECTEDREQUEST)

SMTP Settings

Configure Email Tool > **SMTP Settings** > Attachments

From ❓

SMTP Host ❓

SMTP Port ❓

Security ❓

SMTP Username

SMTP Password ••••••••••••••••••••••
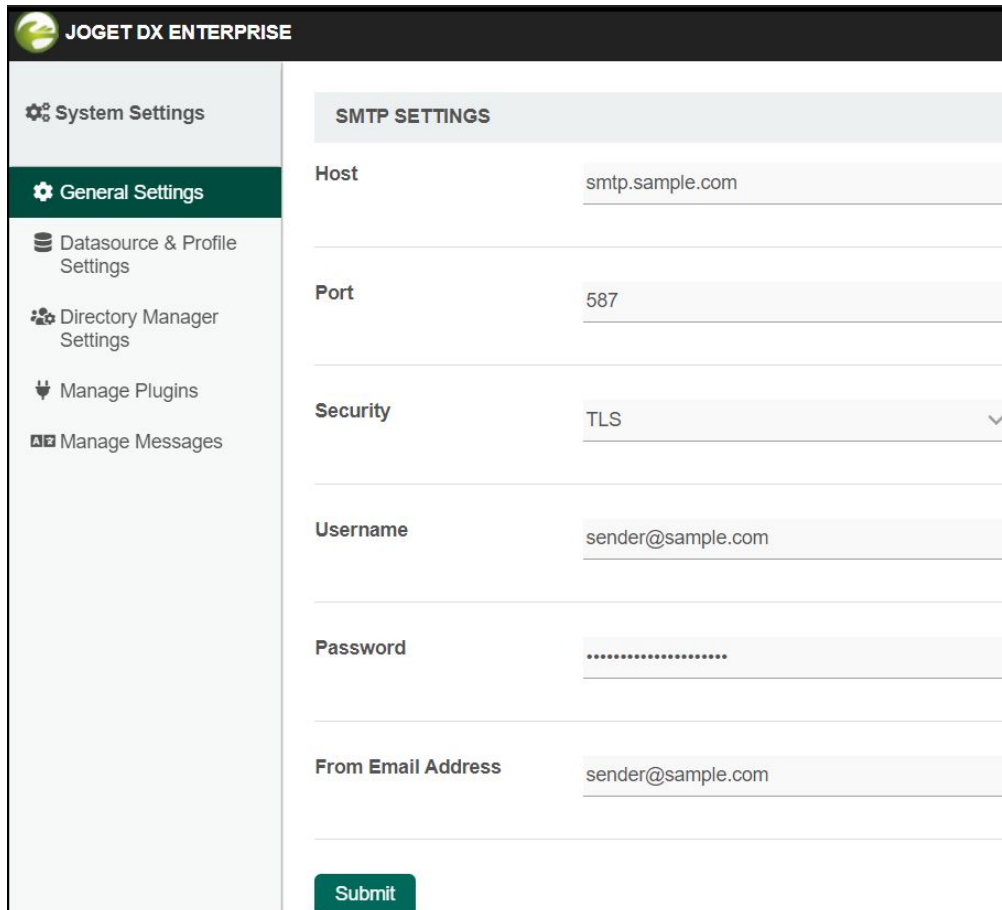
`<#>`

`< Prev` `Next >`   `Send Test Email` `Submit` `Change Plugin`

Good To Know

- Try the SMTP settings with an email client (e.g Outlook, Thunderbird) before using it with Email Tool.

- Make sure that your firewall allows outgoing email messages to be sent from Java.exe

Good To Know

- Email settings can be set in System Settings for better maintainability.

Exercise

- Test out the Email Tool functionality by going through the Workflow Process.
  - Make sure that the recipient's email is defined.
  - Take note of the server log if your email fails to reach.

```
INFO  org.joget.apps.app.lib.EmailTool$1  - EmailTool: Sending email
from=no-reply@example.com, to=cc=, subject=Rejected Purchase Request Notification
ERROR org.joget.apps.app.lib.EmailTool$1  - org.apache.commons.mail.EmailException: At
least one receiver address required
org.apache.commons.mail.EmailException: At least one receiver address required
	at org.apache.commons.mail.Email.buildMimeMessage(Email.java:1148)
	at
org.apache.commons.mail.MultiPartEmail.buildMimeMessage(MultiPartEmail.java:254)
	at org.apache.commons.mail.HtmlEmail.buildMimeMessage(HtmlEmail.java:513)
	at org.apache.commons.mail.Email.send(Email.java:1266)
	at org.joget.apps.app.lib.EmailTool$1.run(EmailTool.java:196)
	at java.lang.Thread.run(Thread.java:619)
```

Tip: Common Mail Servers

Googlemail – **Gmail**	Server:	Authentication:	Port:
SMTP Server (Outgoing Messages)	smtp.gmail.com	SSL	465
	smtp.gmail.com	StartTLS	587
POP3 Server (Incoming Messages)	pop.gmail.com	SSL	995
	Please make sure, that POP3 access is enabled in the account settings. Login to your account and enable POP3.		

Outlook.com	Server:	Authentication:	Port:
SMTP Server (Outgoing Messages)	smtp.live.com	StartTLS	587
POP3 Server (Incoming Messages)	pop3.live.com	SSL	995

Yahoo Mail	Server:	Authentication:	Port:
SMTP Server (Outgoing Messages)	smtp.mail.yahoo.com	SSL	465
POP3 Server (Incoming Messages)	pop.mail.yahoo.com	SSL	995

Source: http://www.arclab.com/en/amlc/list-of-smtp-and-pop3-servers-mailserver-list.html

Chapter Review

We have learnt to:

1. Map a Process Tool to a Process Tool Plugin

2. Configure Email Tool Plugin
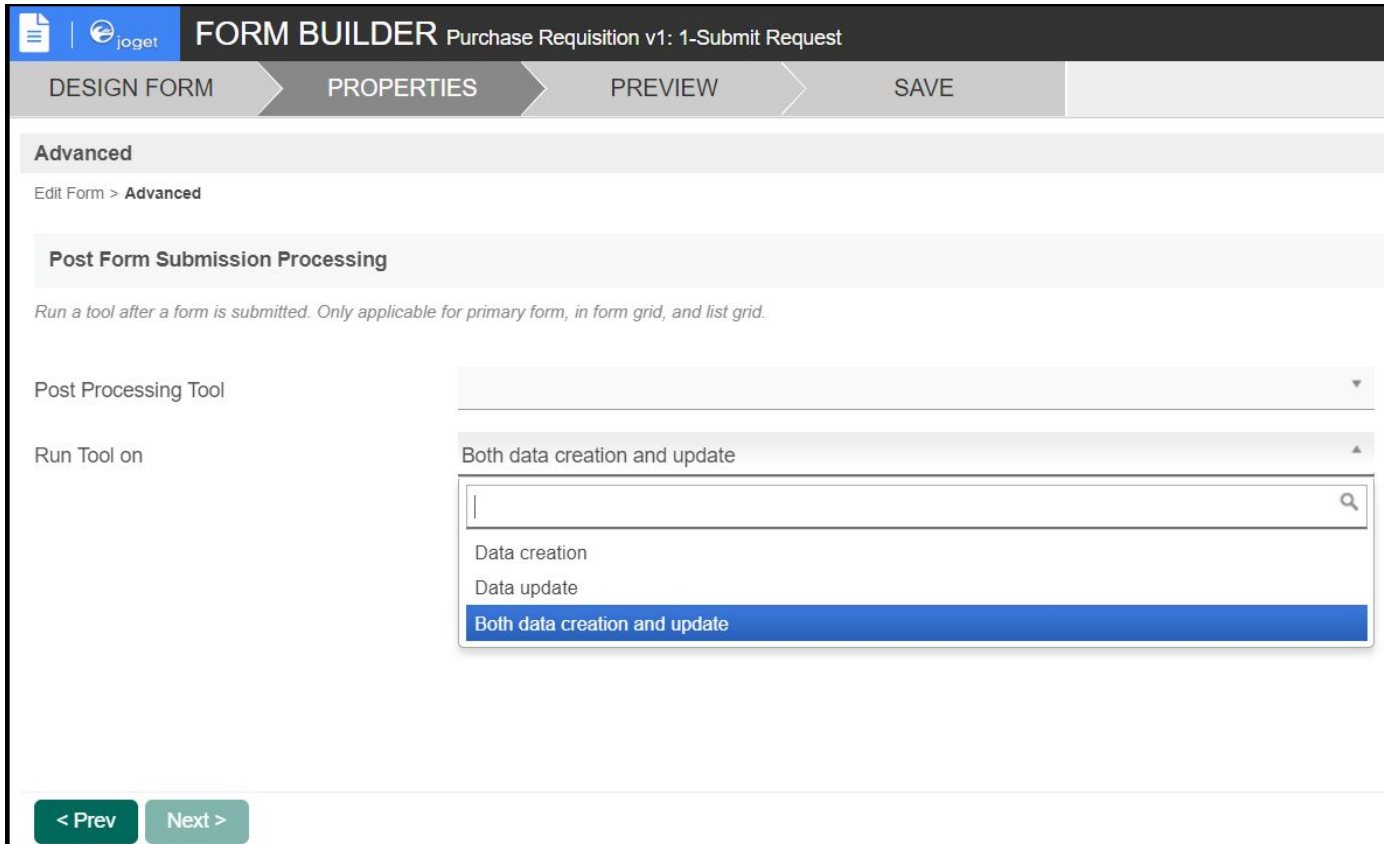
Chapter 3

Using Process Tool in Post Form Submission Processing

Form Post Submission Processing

- Introduced in version 5, a Process Tool plugin is also known as a Form Post Submission Processing plugin.

- A Process Tool plugin can be attached to an individual form and invoked upon form submission.

Form Post Submission Processing

- In Form's properties, **Post Form Submission Processing** settings can be found.

Identify the Form To Apply To
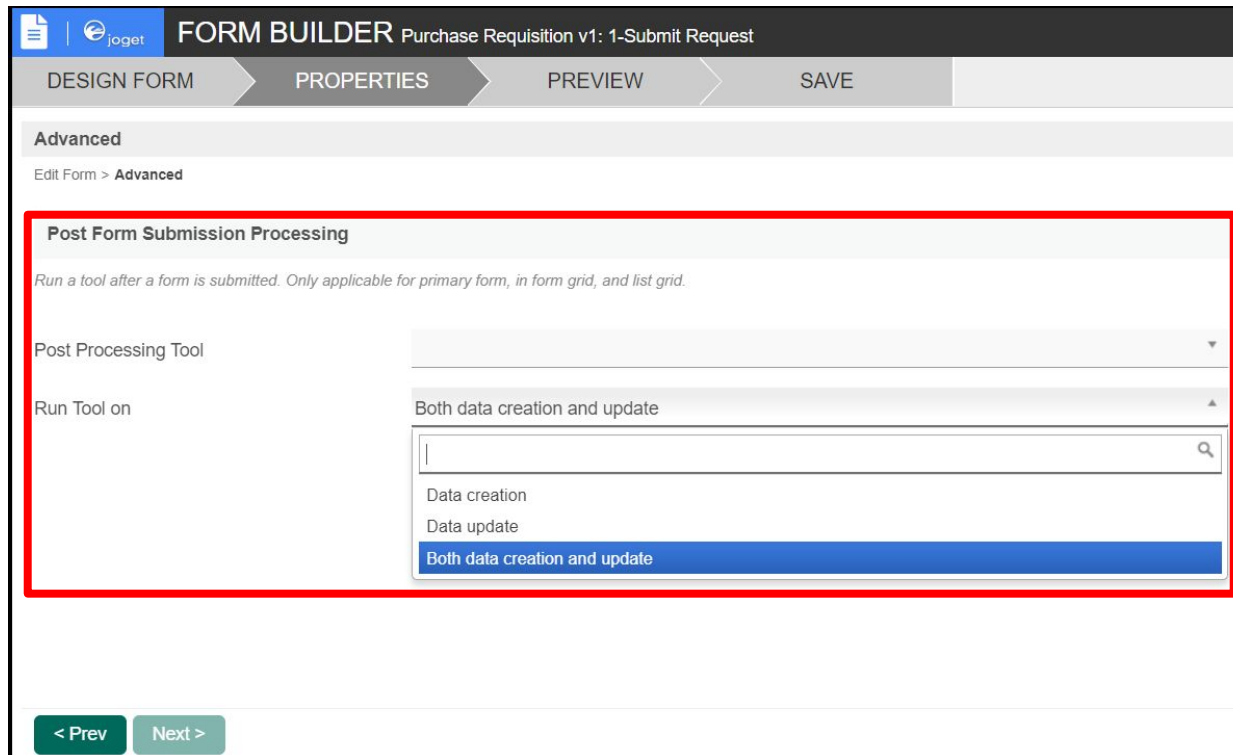
Add Process Tool To the Form

- In the form identified, open the form in the Form Builder.

- Go to the properties, configure the **Post Form Submission Processing** settings.

Which Processing Tool to choose?

- You may choose any Process Tool plugin of your preference or re-use the Email Tool that you have learned earlier.

Discussion

- If there's a Process Tool mapped to a Form (Submit Request) and there's a Tool (Tool 3) to be followed after in the process flow, which tool executes first?
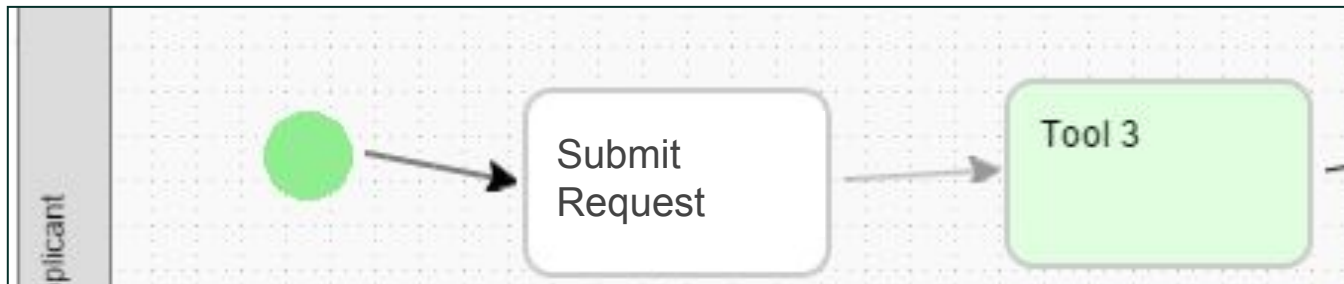
Discussion

- With the ability to add a Process Tool to individual form, there seems to be a continuation/flow by having the form itself. What's the significance of having it versus having the Process Tool in a Workflow Process?

Module Review

- Understand Process Tool Plugin and being part of the Joget ecosystem.

- Able to list down available Process Tool Plugins in the system.

- Map a Process Tool to a Process Tool Plugin.

- Map a Form to a Process Tool Plugin.

- Configure Email Tool Plugin.

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