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# Joget DX8

# **Using Your First Process** Tool

Last Revised on Jan 2023



# **Prerequisites**

- Able to design a Process Flow.
- Understand the differences between activity and tool.

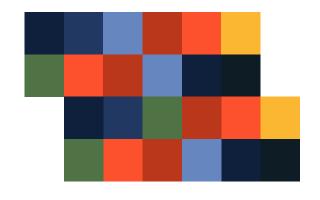


#### Content

- 1. Introduction to Process Tool
- 2. Using Email Tool in Process
- Using Process Tool Plugin in Post Form Submission Processing



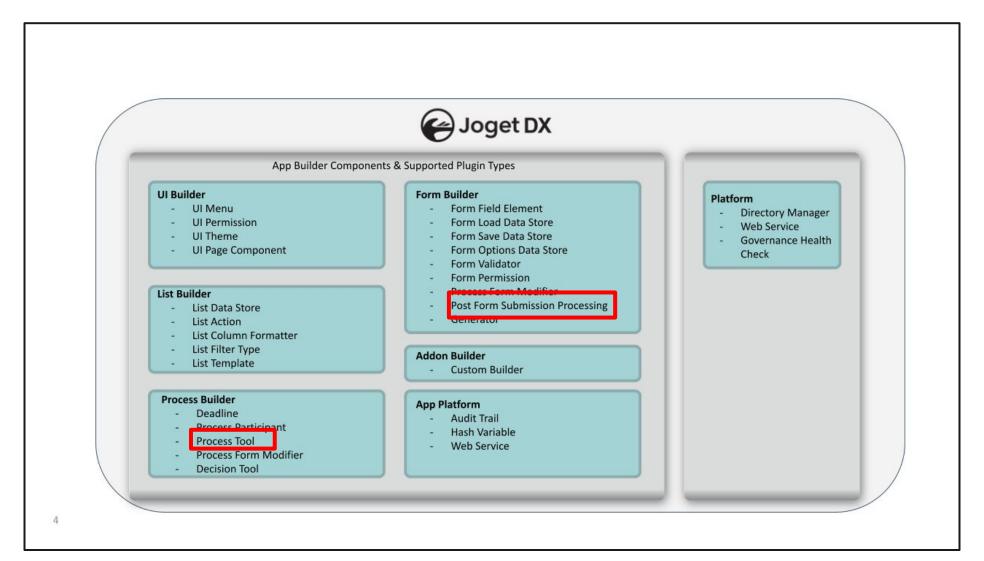




# Chapter 1 Introduction to Process Tool



# **Plugin Types**





#### What Does It Mean?

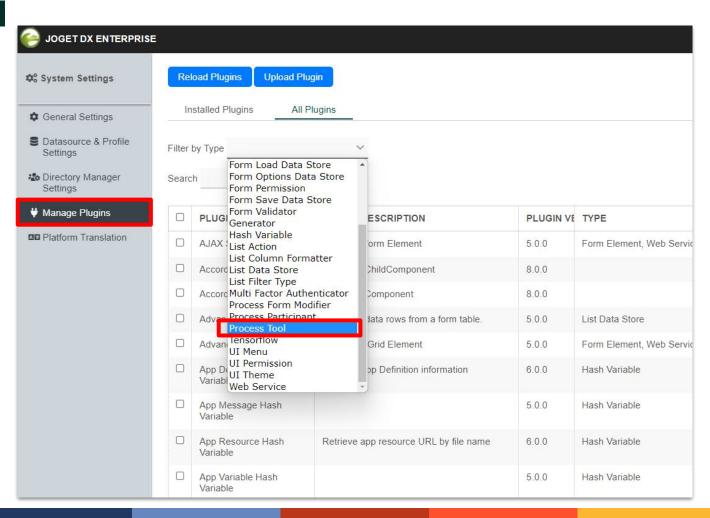
 Being a plugin, it means that it is possible to add/extend the default functionalities of what we already have.



# Locating Available Process Tool Plugins

System Settings -> Manage Plugins -> Process

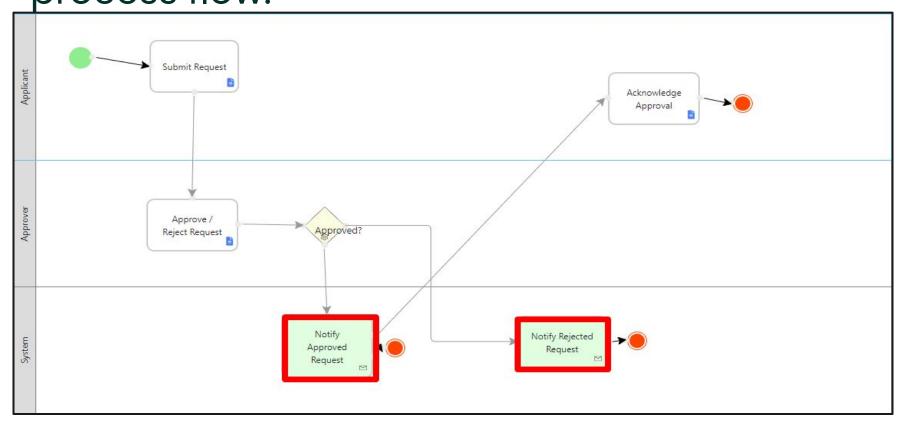
Tool





#### 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.





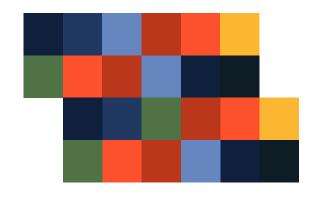
# **Chapter Review**

#### We have learnt to:

- 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



#### Just In Case...

#### **NOTE:**

This chapter is continuing from Module 5 chapter 3.

Please check application 5.3.jwa



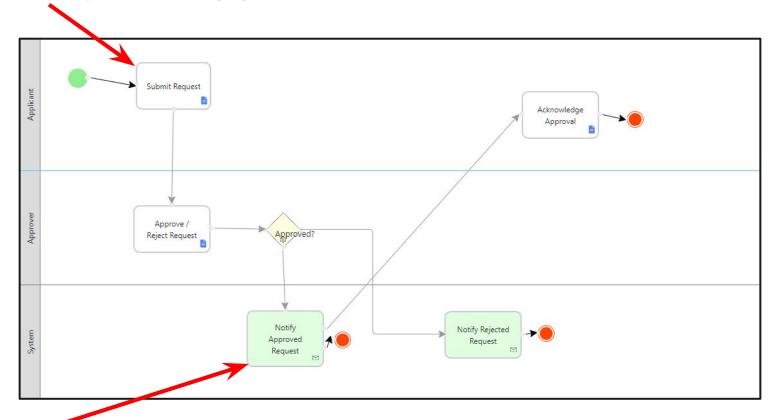
# Email Tool - Process Tool Plugin

- 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 <u>Form</u>

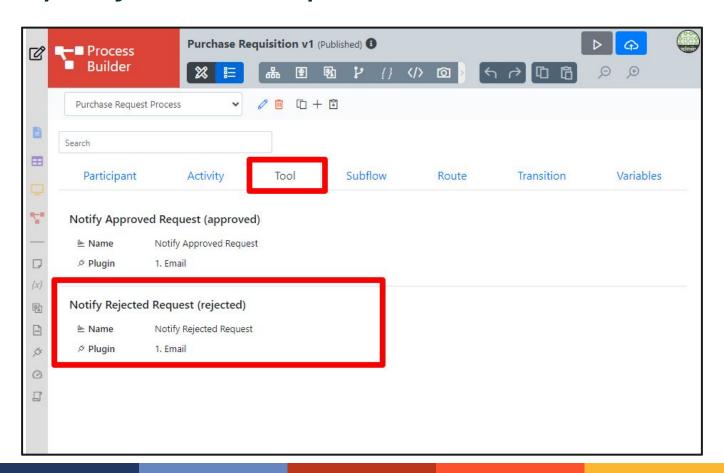


Tool is mapped to <u>Process Tool</u>



# **Adding the Email Tool**

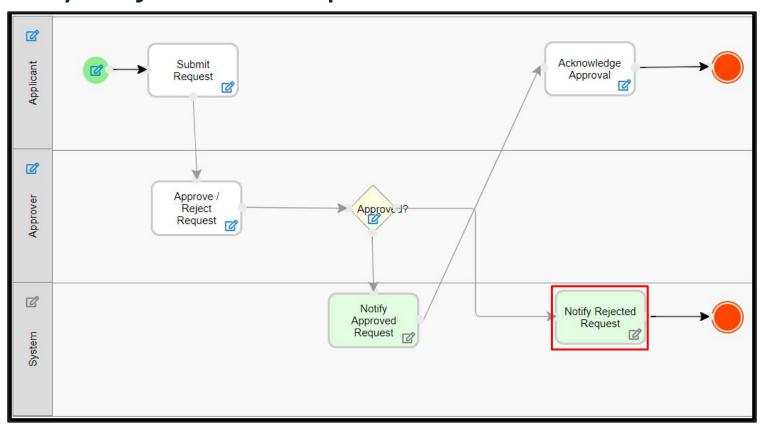
 On "Map Tools to Plugins", click on "Add/Edit Plugin" for "Notify Rejected Request" tool.





# **Alternative Tool Plugin Mapping**

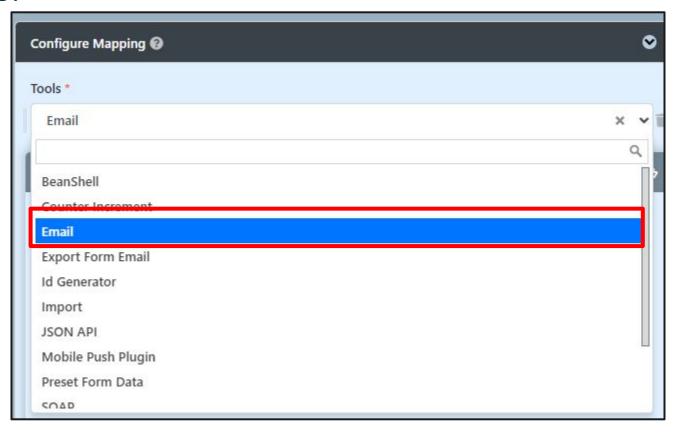
 Click on "Configure Mapping" and click on "Notify Rejected Request" tool.





# **Configuring the Email Tool**

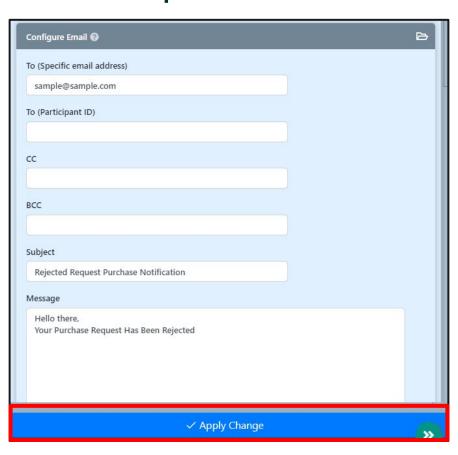
 Select "Email Tool" from the available Process Tools.





# Configuring the Email Tool

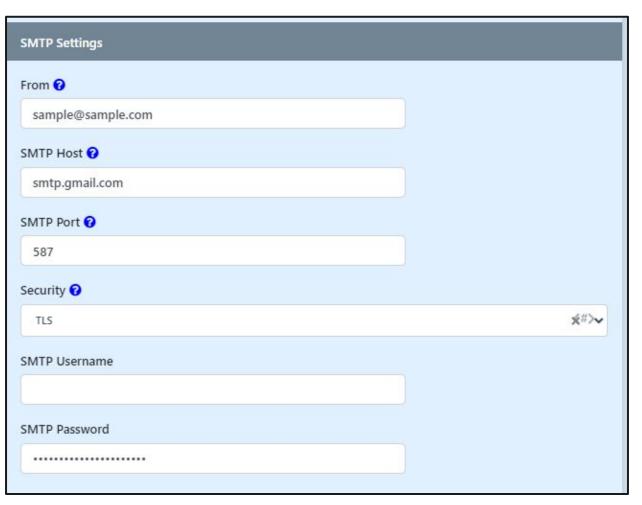
- Set up your mail information.
- Click "Next" to set up the email server.





# **Configuring the Email Tool**

Set up the email server.





#### **Multi Tools**

**Multi Tools** provide the ability to run multiple process tool plugins in a single tool bubble of a process design, with the option of multi-threading support.

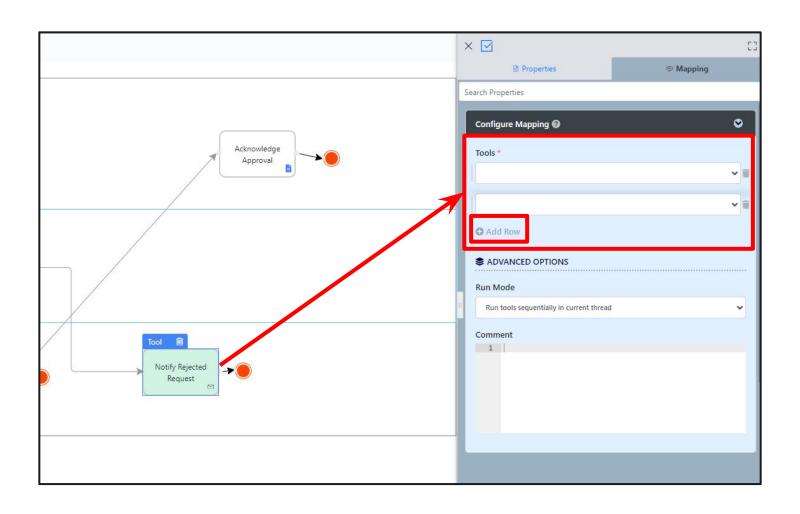
This greatly reduces the effort and time needed to achieve a multiple tools parallel execution process design.

Reference:

https://dev.joget.org/community/display/DX8/Multi+Tools



### **Multi Tools**





#### **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 1**

- Test out the Beanshell Tool functionality by going through the Workflow Process.
  - Print out the process approval status (Approved/Rejected) using the Beanshell Tool.

import org.joget.commons.util.LogUtil;
LogUtil.info("test","This Request Has Been Approved");



# **Tip: Common Mail Servers**

Googlemail - <b>Gmail</b>	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 settings. Login to your account and enable I		the account

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

<b>Yahoo</b> 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: <a href="http://www.arclab.com/en/amlc/list-of-smtp-and-pop3-servers-mailserver-list.html">http://www.arclab.com/en/amlc/list-of-smtp-and-pop3-servers-mailserver-list.html</a>



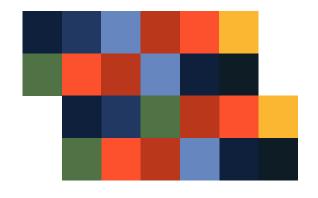
# **Chapter Review**

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.



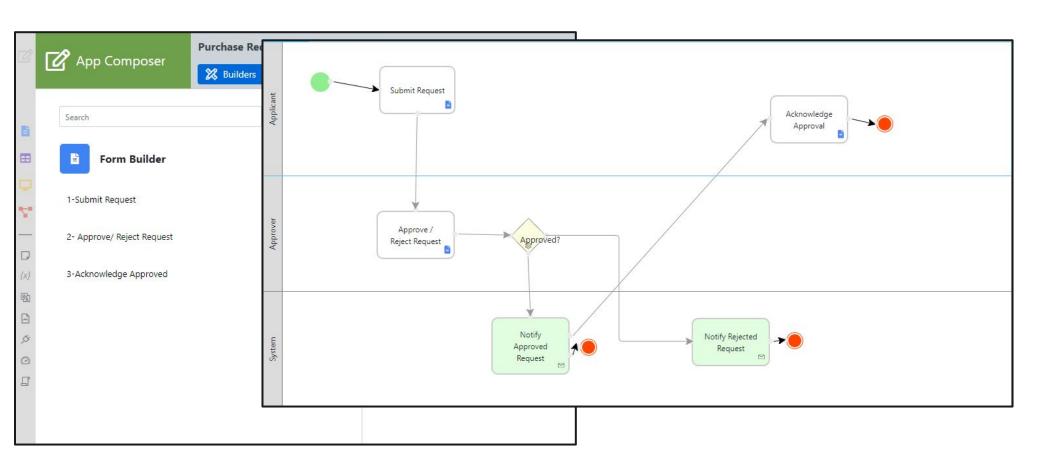
## Form Post Submission Processing

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

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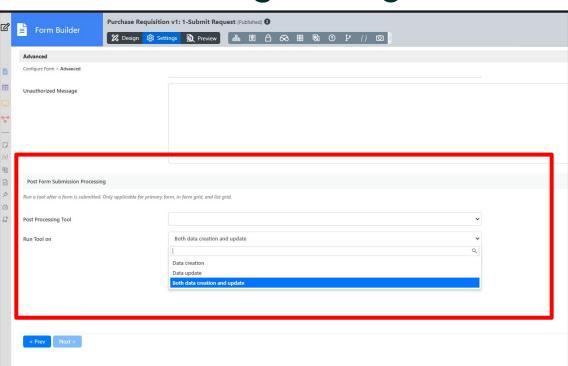
# Identify the Form To Apply To





#### **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.





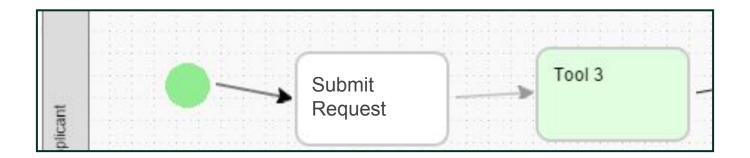
# Which Processing Tool to choose?

 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?



#### **Materials**

Completed App with the optional exercises can be obtained from the file **6.3.jwa**.



#### **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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