

# Email Polling System

The **Email Approver System** included in this article acts as a **email polling system** that fetches emails and complete assignments periodically based on configurations.

Email Approver System

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Running Listeners

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Show

ID	Email (Username)	Description	Started By	Date Created	
000008	machine@sample-joget.org		admin	02-03-2016 07:52 AM	<div>Terminate Listener</div> <div>Edit</div>

One item found.

1

CSV

Excel

XML

PDF

Figure 1: Setting up the listeners

There can be more than 1 listener set at any point of time. Each listener, technically, will be a process instance that repetitively run in a loop until terminated by the user.

## Configurations

Poll Emails

IMAP Email Settings

Email (Username) \*

machine@sample-joget.com

Password

.....

Host \*

imap.gmail.com

Port \*

993

Email Folder \*

INBOX

Timeout (s) \*

10

Debug IMAP Server

☐

Figure 2: IMAP Email Settings

IMAP Email Settings must be configured so that it will check a specific email's inbox for new incoming mails.

It is important to create a dedicated email address to receive such "response" emails so that the execution code block does not spend too much time going through irrelevant emails.

Listener Settings

ID

000008

Started By

admin

Description

Checking Interval (s) \*

30

Max Number of Emails per Check \*

10

Filter Email by Subject

Email Approval


Using Regex for Subject Filter

☐

Subject Pattern

Figure 3: Listener Settings

Listener Settings needs to be also configured to determine the frequency of checking and emails to be matched too.



Take note that the checking interval is also subjected to the **Deadline Checker** interval set in Joget Workflow's system settings. Please ensure the **Process Deadline Checker Interval** is **enabled**. This can be located at Admin Bar > General Settings > Timer Settings > Process Deadline Checker Interval

Filter Email by Subject

Email Approval

Using Regex for Subject Filter
☐

Subject Pattern

**Hint for Subject Pattern:**

1. Use {form\_FieldId} to submit assignment form data. If your field is in a subform, the FieldId will be "{subformFieldId}\_{subformId}\_{fieldId}".
2. Use {var\_VariableName} to retrieve and set extra workflow variable.
3. Use {processId} or {activityId} to finding the correct assignment.
4. Use {unuse} to match other unused content.

**Content Pattern**

```

{form_approval_new_application_approval_action_status}
{unuse}
{unuse}ID: {processId}
{unuse}Remarks:
[{form_approval_new_application_approval_action_remarks}]
{unuse}

```

**Hint for Content Pattern:**

1. Use {form\_FieldId} to submit assignment form data. If your field is in a subform, the FieldId will be "{subformFieldId}\_{subformId}\_{fieldId}".
2. Use {var\_VariableName} to retrieve and set extra workflow variable.
3. Use {processId} or {activityId} to finding the correct assignment.
4. Use {unuse} to match other unused content.

**Debug Mode**
☒

Figure 4: Listener Settings - Subject and Content

**Subject and Content Patterns** are very important.

Make sure that you **match** the content of the outgoing mail that you send out in your other Joget Workflow App.

It may take a few tries to get it right so you can turn on the **Debug Mode** to get the relevant logs for debugging purpose.

Content Pattern

```

{form_approval_new_application_approval_action_status}
{unuse}
{unuse}ID: {processId}
{unuse}Remarks: [{form_approval_new_application_approval_action_remarks}]
{unuse}

```



## Info

You may be wondering where does {form\_approval\_new\_application\_approval\_action\_status} comes from. It is actually the field element name of said field. Just use the **Inspect Element** feature in your browser to acquire the field element name and add the prefix 'form\_' to it. (see sample screenshot below) This will retrieve the value in the email content and set it into the form data.

The screenshot shows a web application interface with a sidebar containing 'Admin Admin', 'Welcome', 'Manage Booking', and 'Booking Approval Process'. The main content area displays a form with a 'Status' dropdown menu. Below the form, the browser's developer tools are open, showing the HTML structure. A red box highlights the 'name' attribute of the 'approval\_new\_application\_approval\_action\_status' field in the HTML code.

Sample email to be sent out configured in Email Tool from the system to the respondent.

The following application required your approval with details:

=====  
 Name : #form.seaa\_application.name#  
 Email : #form.seaa\_application.email#  
 ID: #assignment.processId#  
 =====

Please reply this email with keyword "Approved", "Rejected" or "Clarification Required".  
 If your have remark message, please fill inline between the square brackets below.

Remarks: [ ]  
 == This is a system generated message. ==

Sample email

The following application required your approval with details:

=====  
 Name : Etta  
 Email : etta@joget.com  
 ID: 43\_seaa\_new\_application\_approver\_process  
 =====

Please reply this email with keyword "Approved", "Rejected" or "Clarification Required".  
 If your have remark message, please fill inline between the square brackets below.

Remarks: [ ]  
 == This is a system generated message. ==

Sample email replied by the receiver back to the mailer.

Approved

```
> The following application required your approval with details:
> =====
> Name : Etta
> Email : etta@joget.com
> ID: 43_seaa_new_application_approver_process
> =====
> Please reply this email with keyword "Approved", "Rejected" or "Clarification Required".
> If your have remark message, please fill inline between the square brackets below.
> Remarks: [356pm approved]
> == This is a system generated message. ==
```

Server log showing email polling and assignment completion.

#### Log

```
INFO 02 Mar 2016 16:52:50 App: eas - Poll Email tool - Connect to IMAP for machine@sample-joget.com
INFO 02 Mar 2016 16:52:53 App: eas - Poll Email tool - IMAP connected for machine@sample-joget.com
INFO 02 Mar 2016 16:52:53 App: eas - Poll Email tool - Unread Messages: 1
INFO 02 Mar 2016 16:52:54 App: eas - Poll Email tool - Subject filter for (Re: Email Approval).
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - --- Mail 0: Re: Email Approval ---
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - Sender: Cat Grant <cat-grant@sample-joget.com>
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - Mail Content: Approved____ The following application
required your approval with details:____> =====> Name : Etta____> Email :
etta@joget.com____> ID: 43_seaa_new_application_approver_process____> =====>____>
Please reply this email with keyword "Approved", "Rejected" or "Clarification Required".____> If your have
remark message, please fill inline between the square brackets below.____> Remarks: [356pm approved]____> ==
This is a system generated message. ==____>____
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - subject_pattern:
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - subject_reg:
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - subject_reg:
INFO 02 Mar 2016 16:52:55 App: eas - Poll Email tool - content_pattern:
{form_approval_new_application_approval_action_status}__\{unuse}__\{unuse}ID: {processId}__\{unuse}Remarks:
[{form_approval_new_application_approval_action_remarks}]__\{unuse}__
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - content_reg: \
{form_approval_new_application_approval_action_status}\__\{unuse}\__\{unuse}\ID: \{processId}\__\{unuse}\
Remarks: \[\{form_approval_new_application_approval_action_remarks}\]\__\{unuse}\__
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - content_reg: (.*)__([\s\S]*)__([\s\S]*)ID: (.*)__
([\s\S]*)Remarks: \[(.*)\]\__([\s\S]*)__
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key:
form_approval_new_application_approval_action_status
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: Approved
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key: unuse
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: ____> The following application required your
approval with details:____> =====> Name : Etta____> Email : etta@joget.com
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key: unuse
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: >
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key: processId
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: 43_seaa_new_application_approver_process
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key: unuse
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: > =====>____>____>
Please reply this email with keyword "Approved", "Rejected" or "Clarification Required".____> If your have
remark message, please fill inline between the square brackets below.____>
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key:
form_approval_new_application_approval_action_remarks
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: 356pm approved
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - key: unuse
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - value: >____> == This is a system generated message.
==____>____
INFO 02 Mar 2016 16:52:56 App: eas - Poll Email tool - Submit Form for assignment:
81_43_seaa_new_application_approver_process_approval {approval_new_application_approval_action_status=[Ljava.
lang.String;@e992653, approval_new_application_approval_action_remarks=[Ljava.lang.String;@68a31a1}
I
```

If there is a match based on the subject or the content, the code block will then retrieve the email's sender information (email) and matches it with an existing user in the system.

If there's a match with an user and if there's a further match with the particular user's assignment, then it will then proceed to complete the assignment.

While completing the assignment, depending on the configurations set, workflow variables' values and/or form data values can be set too.

SMTP Email Settings for Auto Reply

Email (Username) \*

Password

Host \*

Port \*

Security

Message \*

Figure 5: Optional - SMTP Email Settings for Auto Reply

You can configure this section if you want the listener to automatically reply to email that it matches.



Related Elements

- [Approve Via Email](#)
- [Bean Shell for Process Tool](#)