# Approval Workflow Sample

This sample demonstrates how to use a flowchart style workflow to route the workflow to different people depending on the course the workflow takes. It also shows how to copy items from one list to another and how to leverage custom initiation forms.

## Description of the sample

This basic workflow scenario that supports a document review and approval/reject process. The workflow launches when a document is added to a specified “drafts” SharePoint library. The workflow assigns a task to a reviewer who evaluates the draft, makes comments, as necessary, and then concludes the task by either routing the document back the writer for revisions or forwarding to editor for editing and release. Additional tasks are assigned, depending on the branch. If the document was returned to the writer for revisions, then the writer completes the revision task and the workflow loops back to the reviewer. When the document is forwarded to the editor, the task completion adds the finished doc to another document library named “manuscripts”.

## Prerequisites

This sample requires the following;

Installed & configured SharePoint 2013 RTM environment that is connected to a configured Workflow Manager 1.0 farm

Service Bus 1.0 February 2013 Cumulative Update applied

Workflow Manager 1.0 February 2013 Cumulative Update applied

SharePoint 2013 March 2013 Public Update applied

Visual Studio 2012 RTM

Office Developer Tools for Visual Studio 2012 RTM

## Key components of the sample

ApprovalWorkflowApp.sln is the Visual Studio solution containing the entire SharePoint hosted app and workflow.

The folder Libraries within the Visual Studio solution contains libraries used by the workflow.

The folder Workflow Dependencies within the Visual Studio solution contains custom task outcome columns, content types and the workflow lists used by the workflow.

The Manuscript Approval Workflow contains the workflow

The Pages folder contains the custom initiation form.

## Configure the sample

Follow these steps to configure the sample app.

1. Ensure you have a site collection created using the Developer Site template.
2. Open the solution in Visual Studio 2012.
3. Change the Site URL property on the project to be the URL of the Developer Site.
4. Ensure you have three people in Active Directory (for instance: Ken Sanchez, Janice Galvin & Rob Walters).
5. Run a full synchronization of the User Profile Application.
6. Grant all three users access to the Developer Site.

## Build the sample

1. Build ApprovalWorkflowApp.sln.

## Run and test the sample

1. Open the ApprovalWorkflowApp.sln and press F5 (ensuring it has been configured to point to the Developer Site).
2. When the app deploys it will open the homepage that contains links to the Drafts library.
3. Click the Drafts link and upload a document.
4. Navigate to the document’s detail page and start the Manuscript Approval Workflow.
5. The initiation form will load. When it does, specify two different users for the reviewer and editor and click the Start button.
6. Navigate to the workflow status page for this item. You should see a new task created for the reviewer.
7. Open the task and click the Proceed to Editor button.
8. Navigate to the workflow status page for this item. You should see a new task created for the editor.
9. Open the task and click the Approve button.
10. After approving the suggestion, the document will be copied to the Manuscripts folder.
11. Rerun the workflow but this time when the reviewer completes his task, click the Return to Author button. This routes the document back to the author for further work.

## Troubleshooting

If the workflow fails it is likely due to one of two things. Either the users have not been imported into the User Profile Application or the environment has not been configured to send emails. The latter will report errors, but it will not keep the workflow from running.

## Change log

First release December 19, 2012

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