

PUBLIC

Deep dive into SAP Cloud Platform Workflow Management – Notify Process Administrators

DEV-264

Exercises / Solutions
Venugopal Chembrakalathil / SAP SE

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SUMMARY27

SAP Cloud Platform Workflow Management has Process Visibility capability, enable Process Owners / Process Operators to gain real time insights into processes and insight to actions. In this document you will learn how to model workflows which can be configured later from Process Visibility and trigger actions based on process status by system or user.

INSIGHT TO ACTION

Processes change their status based on different situations like delays, SLA violation or technical failures. Some of this status changes require system centric actions and others require user centric actions. Process Visibility enable you to define both system and user centric actions based on process status.

System Triggered Action

Process visibility triggers actions when process status changes like (Failed, Suspended, Overdue or at Risk). Pre-configured workflow is triggered, and the workflow can do appropriate steps like notifying process administrators or creating a service ticket.

User Triggered Action

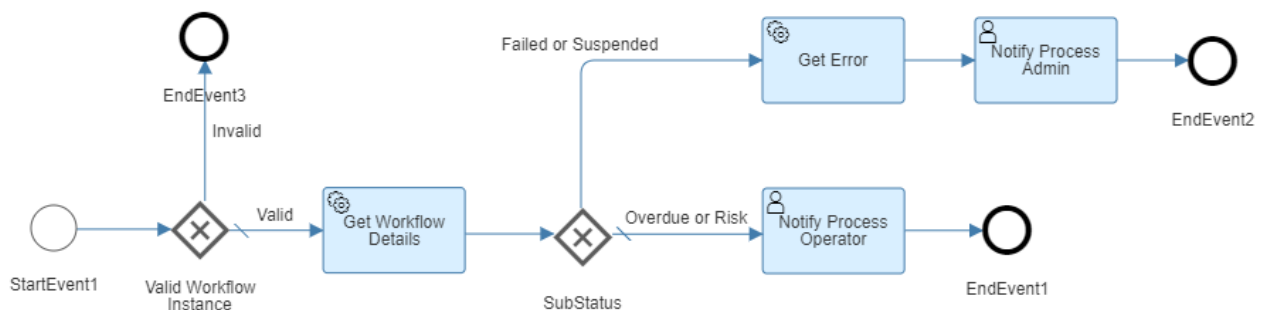
User triggered actions will be enabled when the process reach the preconfigured state and a user can trigger this action from process visibility. For eg: The process has exceeded the cycle time or at Risk or suspended or Failed.

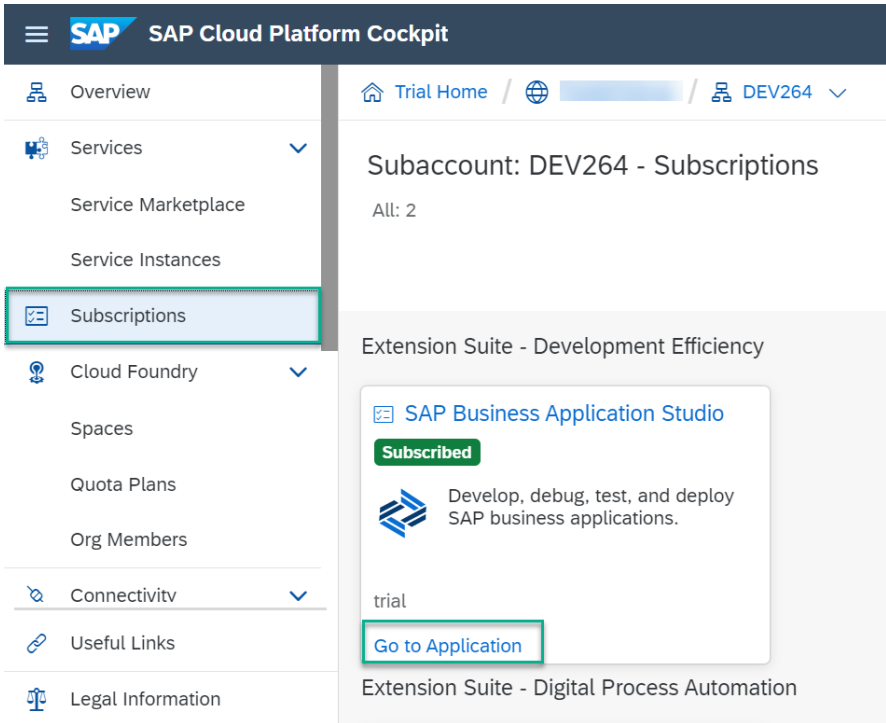
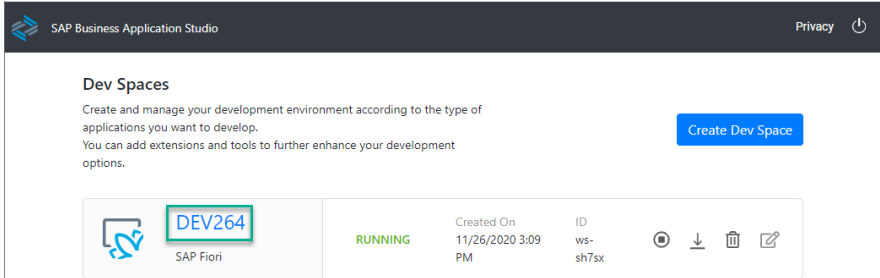
Prerequisite

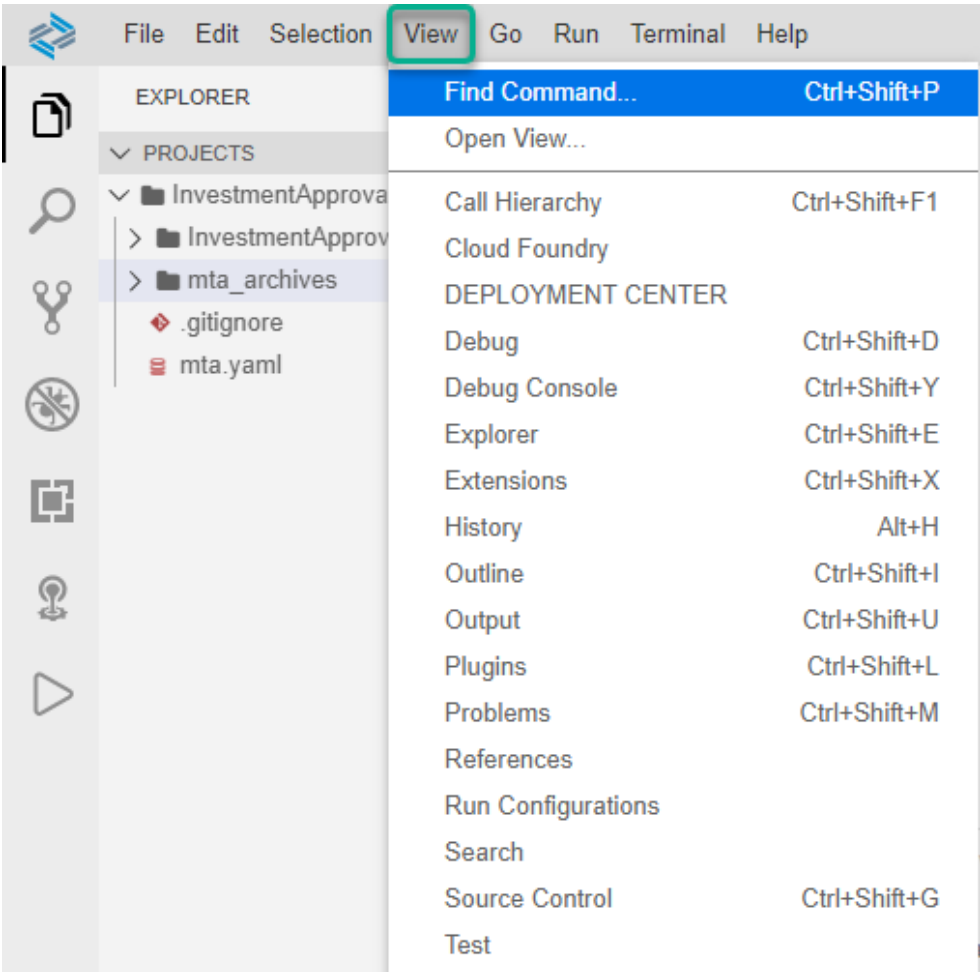
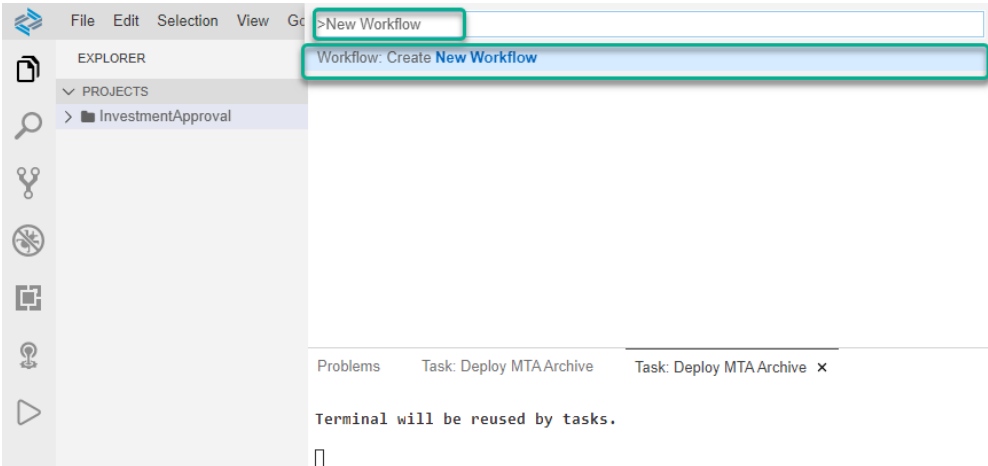
You have already configured your SAP Business Application Studio Workspace and Created the Investment Approval Workflow. Please refer [Model Workflow guide](#) how to build and deploy Investment Approval Workflow

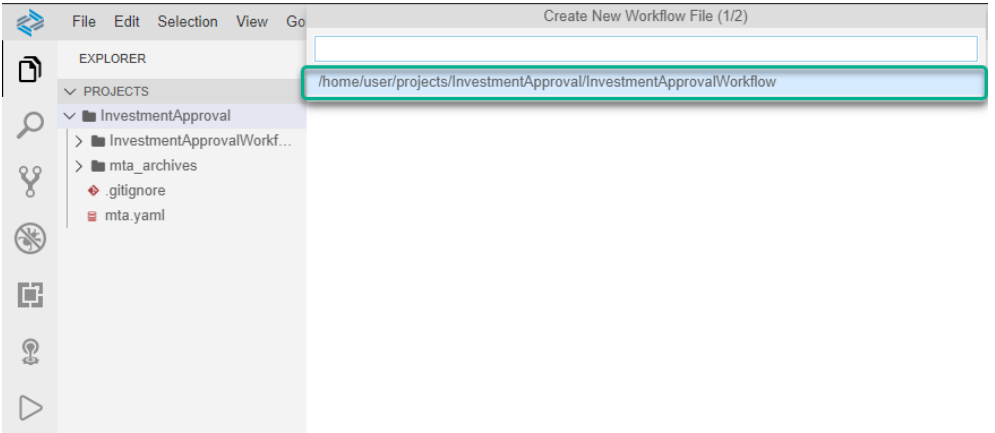
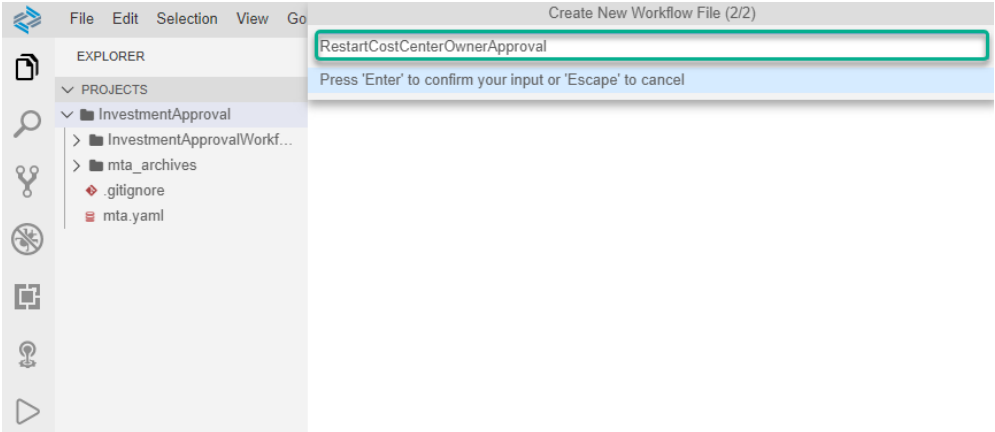
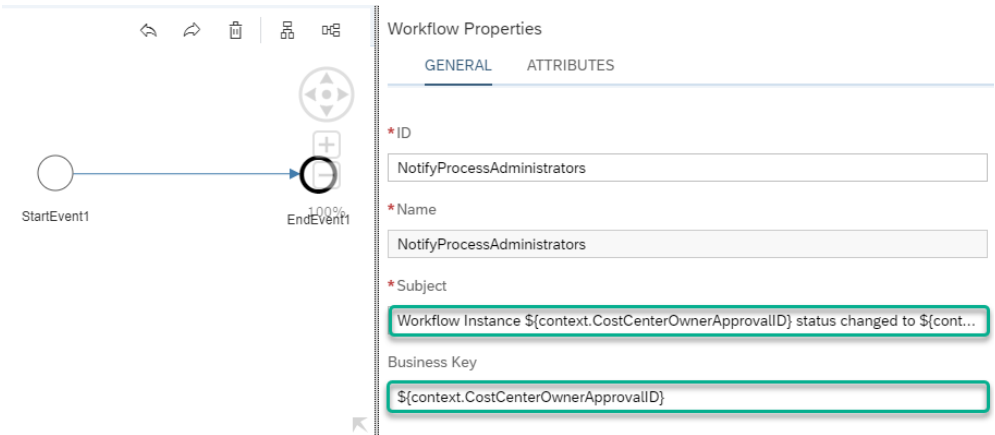
INSIGHT TO ACTION – NOTIFY PROCESS ADMINISTRATORS – SYSTEM TRIGGERED ACTION

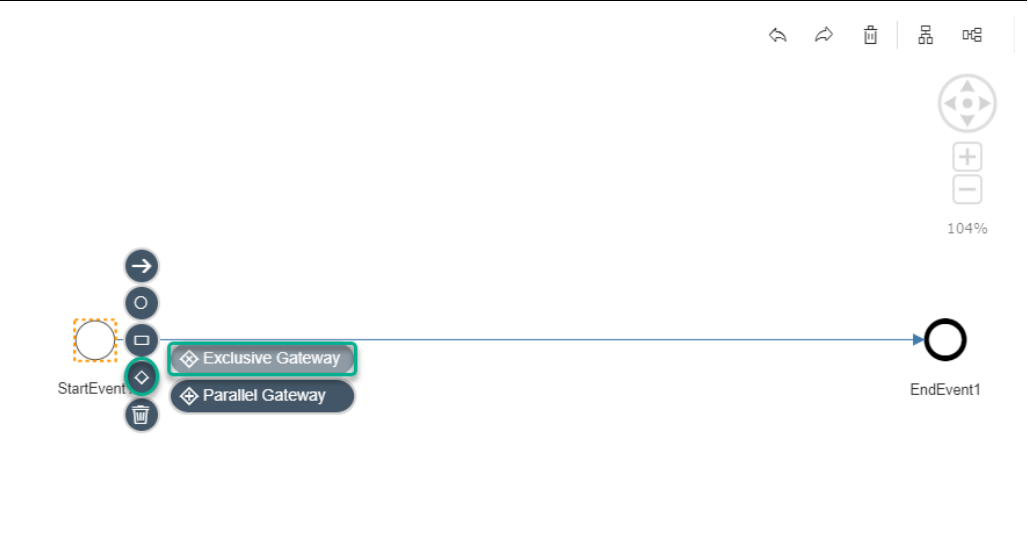
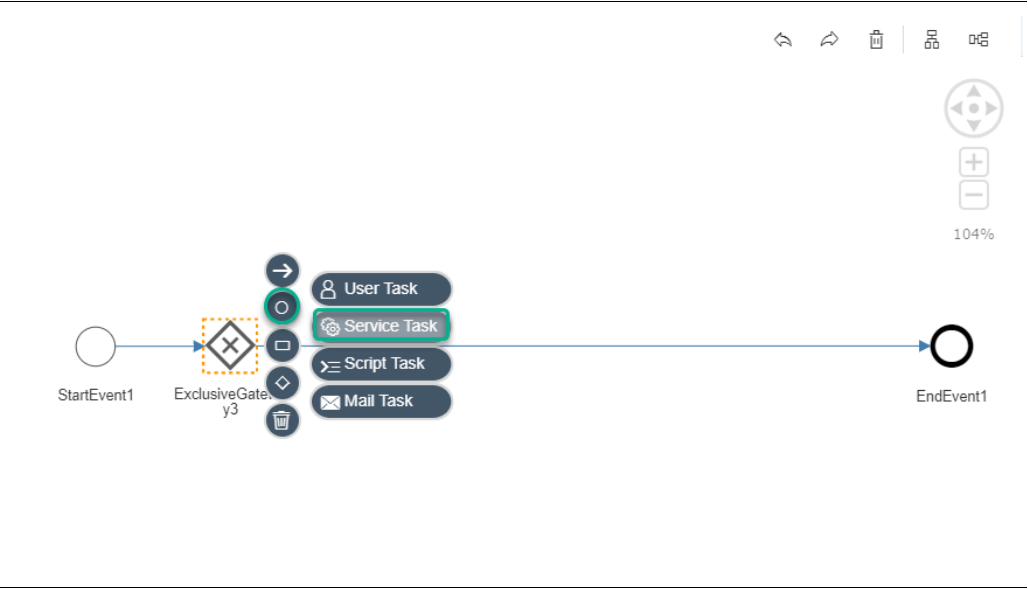
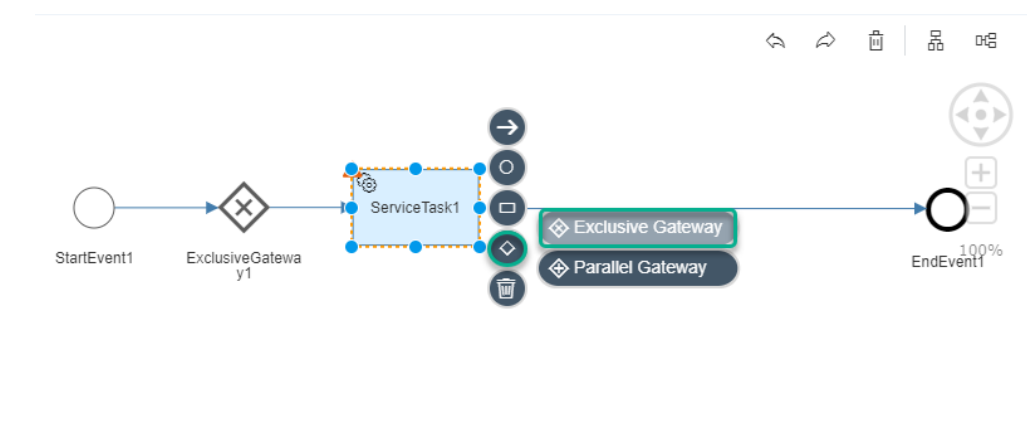
In this guide you will model a workflow to manage workflow status changes as actions from SAP Cloud Platform Process Visibility. The workflow is triggered from Process Visibility when Investment Approval Workflow Instances change status to Failed, Suspended, Overdue or at Risk.

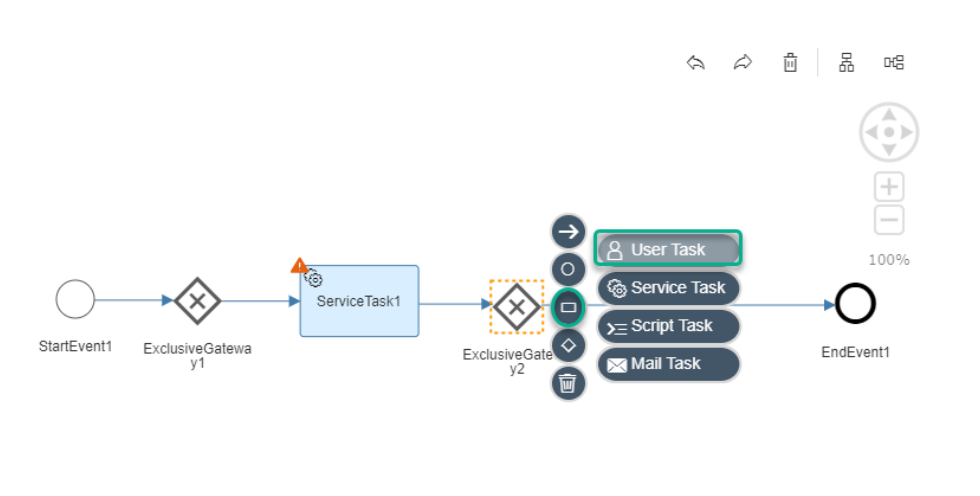
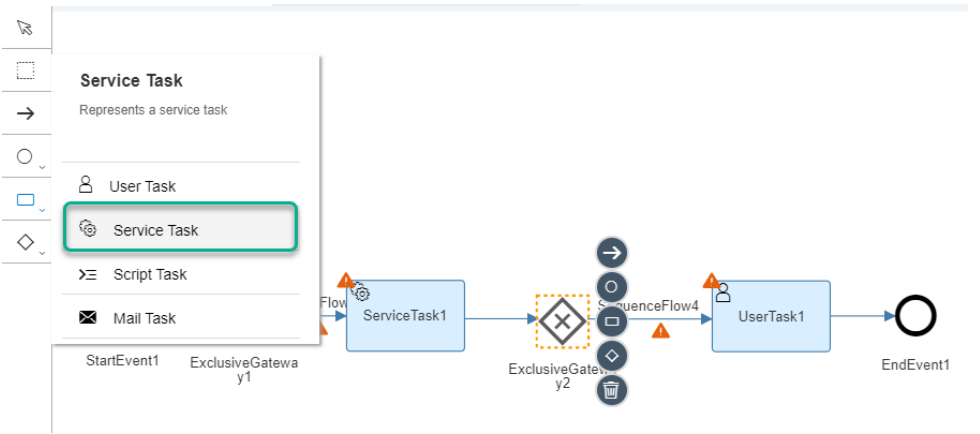
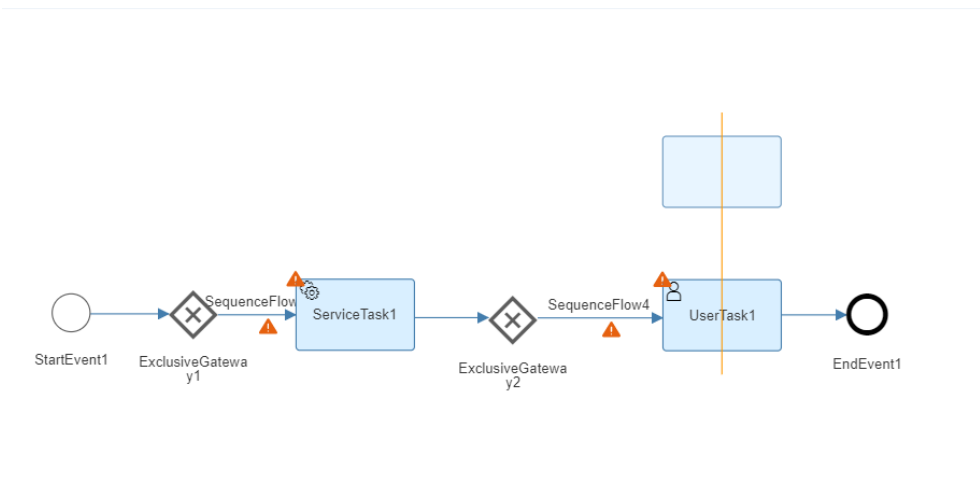


| Explanation | Screenshot | | | | | | | | | | |
|--|---|--------------------|----------|------------------------------|----|---------|---------------------|---------|--------------------|----------|------------------------------|
| <div>1. Select Subscriptions in your Sub Account and you see the subscribed applications.</div> <div>2. Select SAP Business Application Studio and click Go to Application.</div> <div>SAP Cloud Platform Business Application Studio will be opened in new browser window.</div> |  <p>The screenshot shows the SAP Cloud Platform Cockpit interface. On the left, a navigation menu lists various services, with 'Subscriptions' highlighted. The main area displays the 'Subaccount: DEV264 - Subscriptions' page. It shows a list of subscriptions, with one entry for 'SAP Business Application Studio' marked as 'Subscribed'. A 'Go to Application' button is visible at the bottom of this entry.</p> | | | | | | | | | | |
| <div>3. Click your Dev Space.</div> |  <p>The screenshot shows the SAP Business Application Studio interface. The 'Dev Spaces' section is active, displaying instructions on how to create and manage development environments. A 'Create Dev Space' button is present. Below this, a table lists existing Dev Spaces. The first entry, 'DEV264' (SAP Fiori), is highlighted and shows a 'RUNNING' status.</p> <table><thead><tr><th>Dev Space</th><th>Status</th><th>Created On</th><th>ID</th><th>Actions</th></tr></thead><tbody><tr><td>DEV264 SAP Fiori</td><td>RUNNING</td><td>11/26/2020 3:09 PM</td><td>ws-sh7sx</td><td>View, Download, Delete, Edit</td></tr></tbody></table> | Dev Space | Status | Created On | ID | Actions | DEV264 SAP Fiori | RUNNING | 11/26/2020 3:09 PM | ws-sh7sx | View, Download, Delete, Edit |
| Dev Space | Status | Created On | ID | Actions | | | | | | | |
| DEV264 SAP Fiori | RUNNING | 11/26/2020 3:09 PM | ws-sh7sx | View, Download, Delete, Edit | | | | | | | |

| Explanation | Screenshot |
|---|---|
| 4. Click View on the menu and select Find Command . |  A screenshot of the Visual Studio Code interface. The 'View' menu is open, showing various views. The 'Find Command...' option is highlighted at the top. The Explorer sidebar on the left shows a project structure with folders like 'InvestmentApproval' and 'mta_archives', and files like '.gitignore' and 'mta.yaml'. The main editor area is empty. |
| 5. Search for New Workflow . 6. Select Workflow: Create New Workflow |  A screenshot of the Visual Studio Code interface. The search bar at the top right contains the text '>New Workflow'. Below the search bar, a dropdown menu shows the results, with 'Workflow: Create New Workflow' selected. The Explorer sidebar on the left shows the same project structure as in the previous screenshot. The main editor area is empty. |

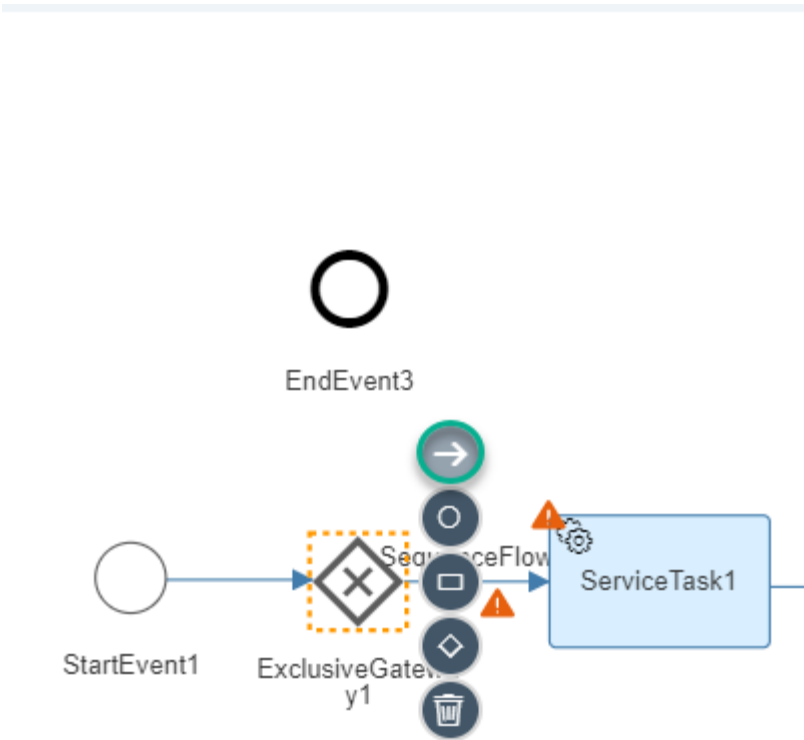
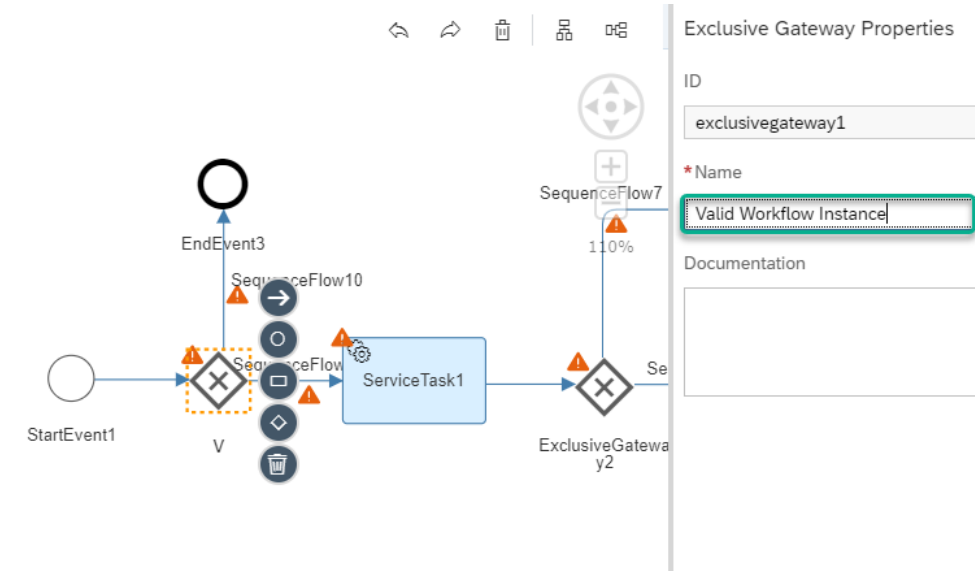
| Explanation | Screenshot |
|---|--|
| 7. Select the folder name. |  |
| 8. Enter the new Workflow name as RestartCostCenterOwnerApproval . A new workflow has created and opened in the editor. Drag and drop the EndEvent towards right to add other workflow artifacts. |  |
| 9. Enter the following. Subject: Workflow Instance <code>\${context.CostCenterOwnerApprovalID}</code> status changed to <code>\${context.SubStatus}</code> Business Key: <code>\${context.CostCenterOwnerApprovalID}</code> |  |

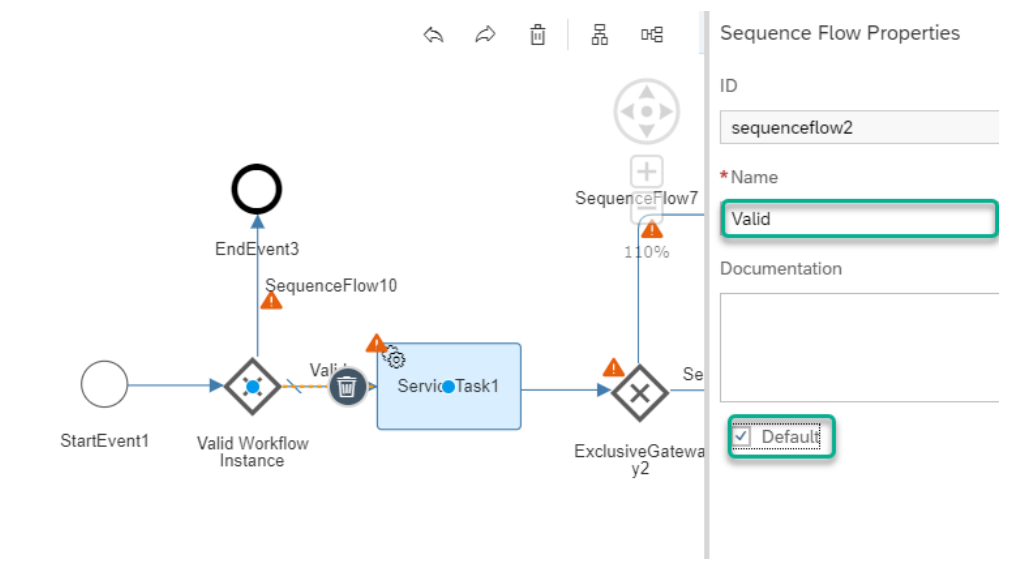
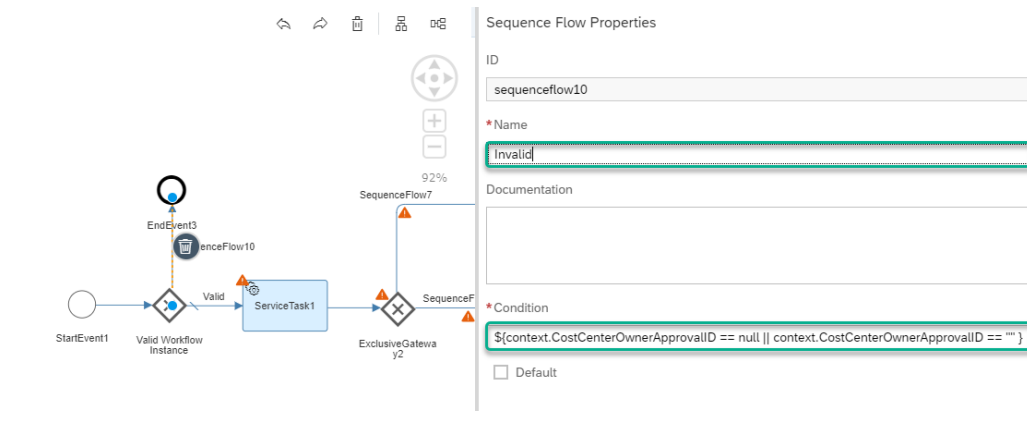
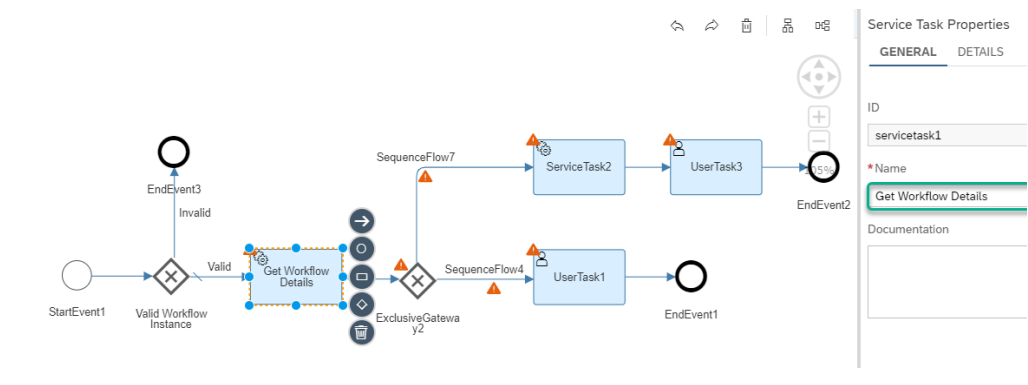
| Explanation | Screenshot |
|---|--|
| 10. Select Start Event and choose Exclusive Gateway from the speed button. |  <p>The screenshot shows a BPMN diagram with a StartEvent1 (circle) connected to an Exclusive Gateway (diamond). The speed button is open, showing Exclusive Gateway and Parallel Gateway options. The diagram is at 104% zoom.</p> |
| 11. Select Exclusive Gateway and choose Service Task from the speed button. |  <p>The screenshot shows a BPMN diagram with StartEvent1 connected to ExclusiveGateway y3, which is connected to ServiceTask1. The speed button is open, showing Service Task, Script Task, and Mail Task options. The diagram is at 104% zoom.</p> |
| 12. Select ServiceTask1 and choose Exclusive Gateway from the speed button. |  <p>The screenshot shows a BPMN diagram with StartEvent1 connected to ExclusiveGateway y1, which is connected to ServiceTask1. The speed button is open, showing Exclusive Gateway and Parallel Gateway options. The diagram is at 100% zoom.</p> |

| Explanation | Screenshot |
|--|---|
| 13. Select ExclusiveGateway1 and choose User Task from the speed button. |  <p>The screenshot shows a BPMN diagram with the following elements: StartEvent1, ExclusiveGateway1 (labeled y1), ServiceTask1, ExclusiveGateway2 (labeled y2), and EndEvent1. A speed button menu is open over ExclusiveGateway2, showing options: User Task (highlighted with a green border), Service Task, Script Task, and Mail Task. The diagram is at 100% zoom.</p> |
| 14. Select Service Task from the Palette. |  <p>The screenshot shows the same BPMN diagram as in step 13. A palette is open on the left, showing the 'Service Task' option highlighted with a green border. The palette also lists 'User Task', 'Script Task', and 'Mail Task'. The diagram elements are StartEvent1, ExclusiveGateway1 (y1), ServiceTask1, ExclusiveGateway2 (y2), and EndEvent1.</p> |
| 15. Drag and drop the Service Task above UserTask1 . |  <p>The screenshot shows the BPMN diagram with a new Service Task being dragged (indicated by a blue box and a vertical orange line) to be placed above UserTask1. The diagram elements include StartEvent1, ExclusiveGateway1 (y1), ServiceTask1, ExclusiveGateway2 (y2), UserTask1, and EndEvent1. SequenceFlow4 connects ExclusiveGateway2 to UserTask1.</p> |

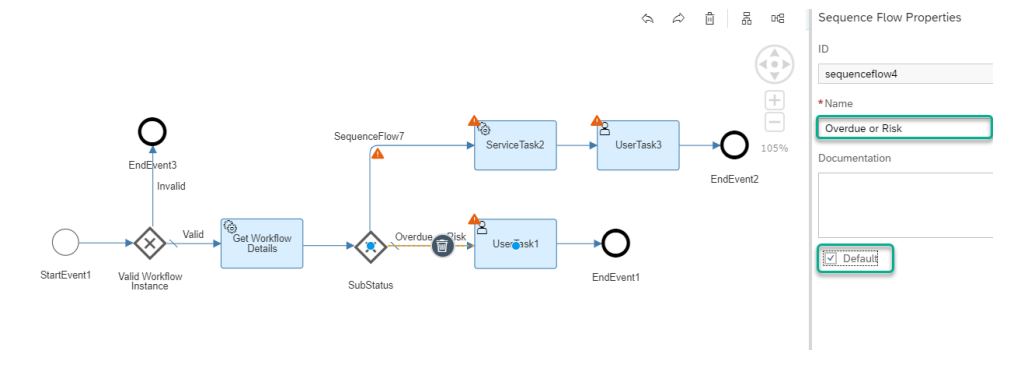
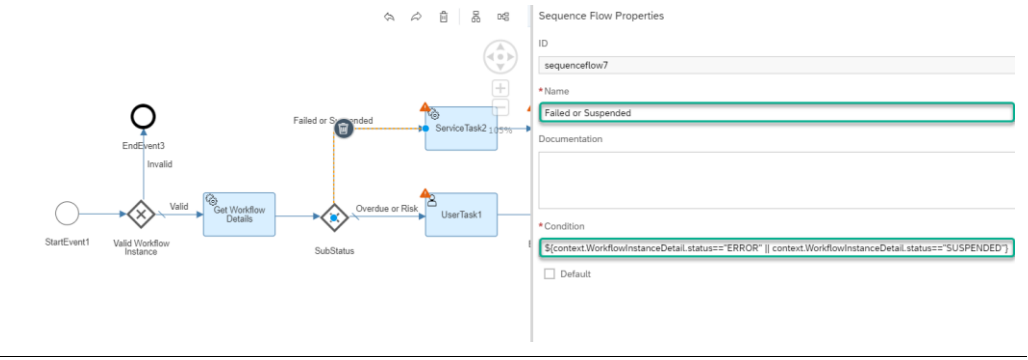
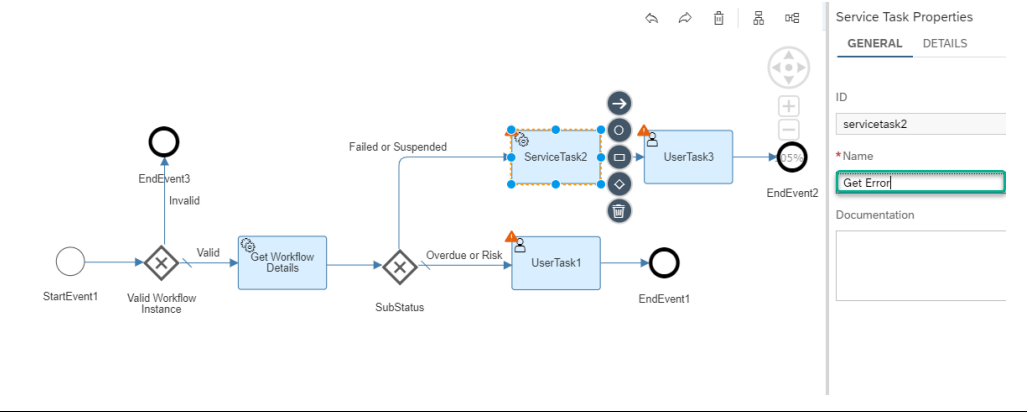
| Explanation | Screenshot |
|--|---|
| 16. Select ExclusiveGateway1 and choose Sequence Flow from the speed button. | <p>The screenshot shows a BPMN diagram with the following elements: StartEvent1, ExclusiveGateway y1, ServiceTask1, ExclusiveGateway y2, SequenceFlow4, UserTask1, and EndEvent1. A speed button menu is open over ExclusiveGateway y2, with 'Sequence Flow' selected. A new sequence flow, SequenceFlow7, is being added from ExclusiveGateway y2 to ServiceTask2.</p> |
| 17. Select ServiceTask2 and choose User Task from the speed button. | <p>The screenshot shows the same BPMN diagram as in step 16. A speed button menu is open over ServiceTask2, with 'User Task' selected. A new user task, UserTask3, is being added to the diagram.</p> |
| 18. Select UserTask and choose End Event from the speed button. | <p>The screenshot shows the same BPMN diagram as in step 17. A speed button menu is open over UserTask3, with 'End Event' selected. A new end event is being added to the diagram.</p> |

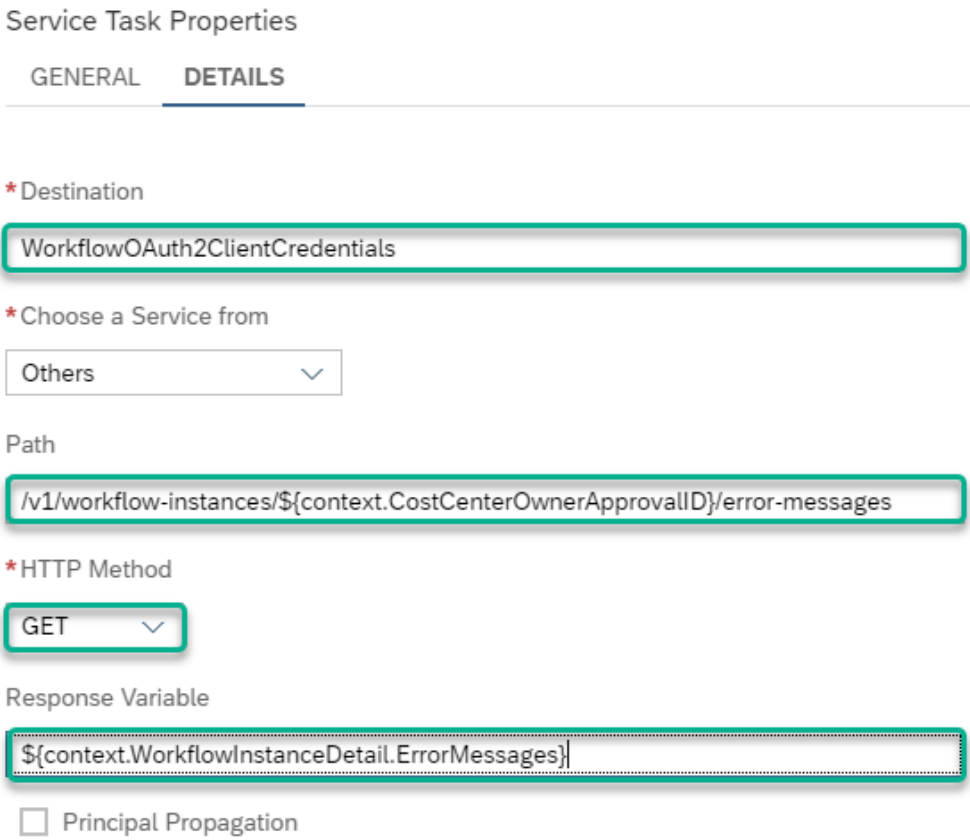
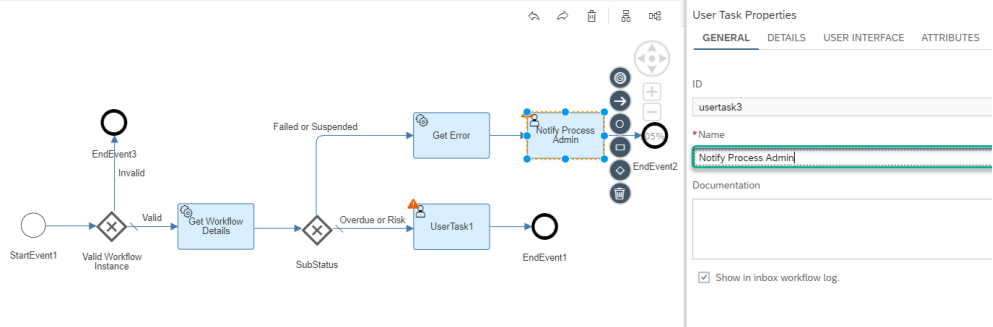
| Explanation | Screenshot |
|---|---|
| 19. Select End Event from the palette. | <p>The screenshot shows a software interface for designing a workflow. At the top, there are two tabs: 'NotifyProcessAdministrators.workflow' and 'RestartCostCenterOwnerApproval.workflow'. A palette is open, displaying various BPMN symbols. The 'End' section is expanded, showing options: 'Start Event', 'Intermediate Message', 'Intermediate Timer', 'End Event' (which is highlighted with a green border), and 'Terminate End Event'. Below the palette, a partial workflow diagram is visible, showing a 'StartEvent1' followed by an 'ExclusiveGateway1'. A flow arrow labeled 'Flow' points from the gateway to a 'ServiceTask1' box. The diagram is partially cut off on the right side.</p> |

| Explanation | Screenshot |
|--|--|
| 20. Drag and drop EndEvent above the ExclusiveGateway1 . |  |
| 21. Select ExclusiveGateway1 and update Name. Name: Valid Workflow Instance |  |

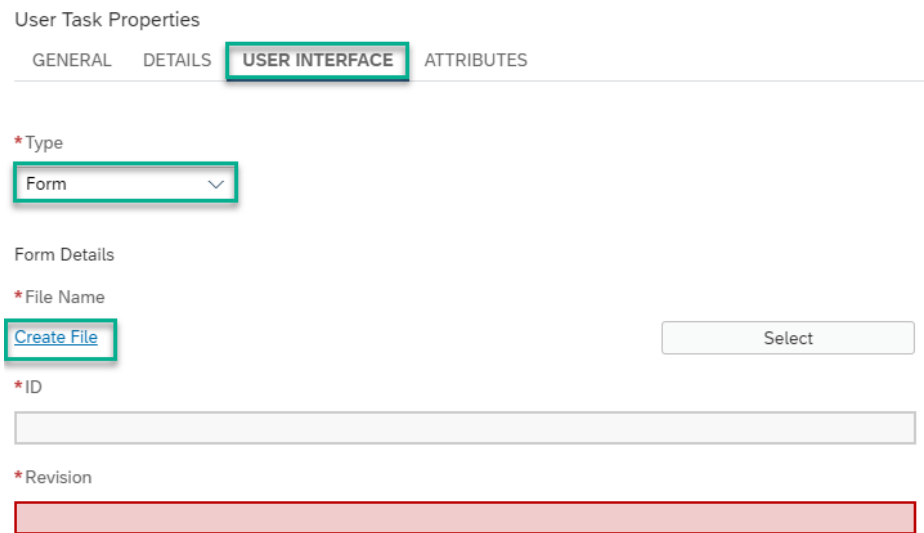
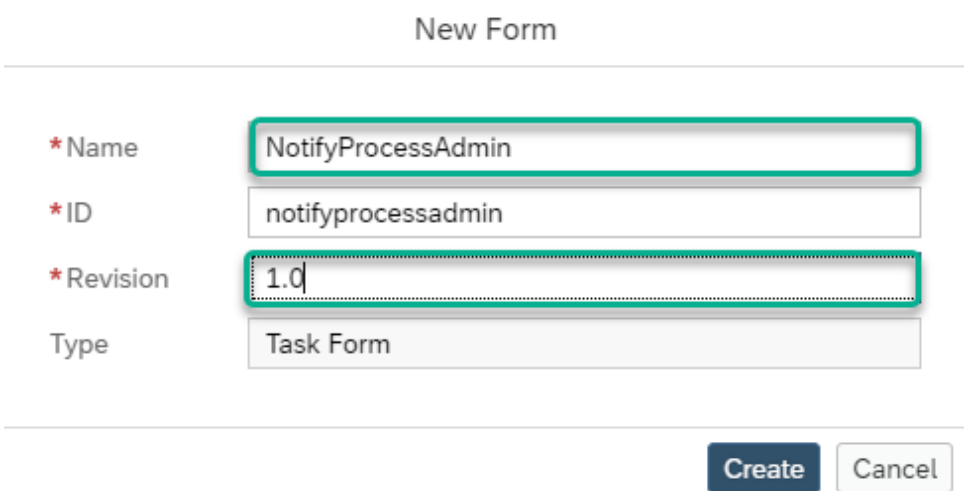
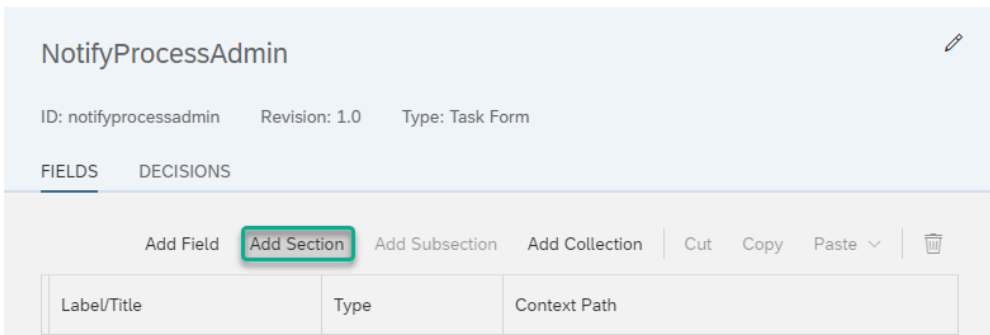
| Explanation | Screenshot |
|--|--|
| <div>22. Select Sequence Flow between Exclusive Gateway and ServiceTask1.</div> <div>23. Update Name as Valid.</div> <div>24. Check the Default check box.</div> |  |
| <div>25. Select Sequence Flow between Exclusive Gateway (Valid Workflow Instance) and End Event3.</div> <div>26. Update the Name as Invalid</div> |  |
| <div>27. Select Service Task ServiceTask1.</div> <div>28. Under GENERAL tab update Name. Name: Get Workflow Details</div> |  |

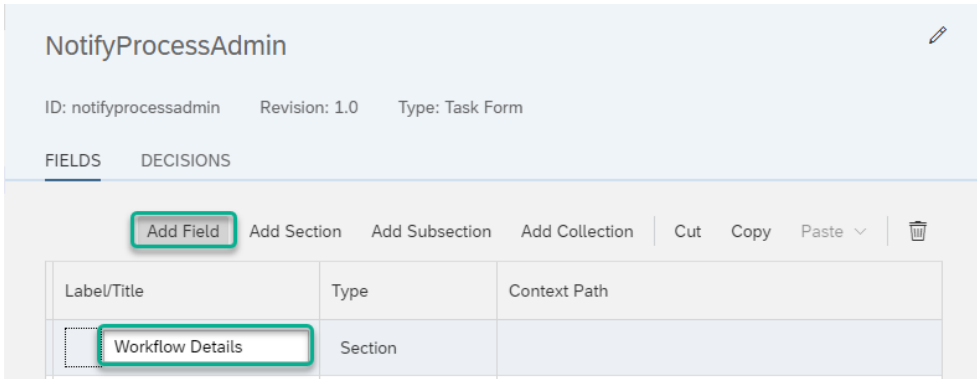
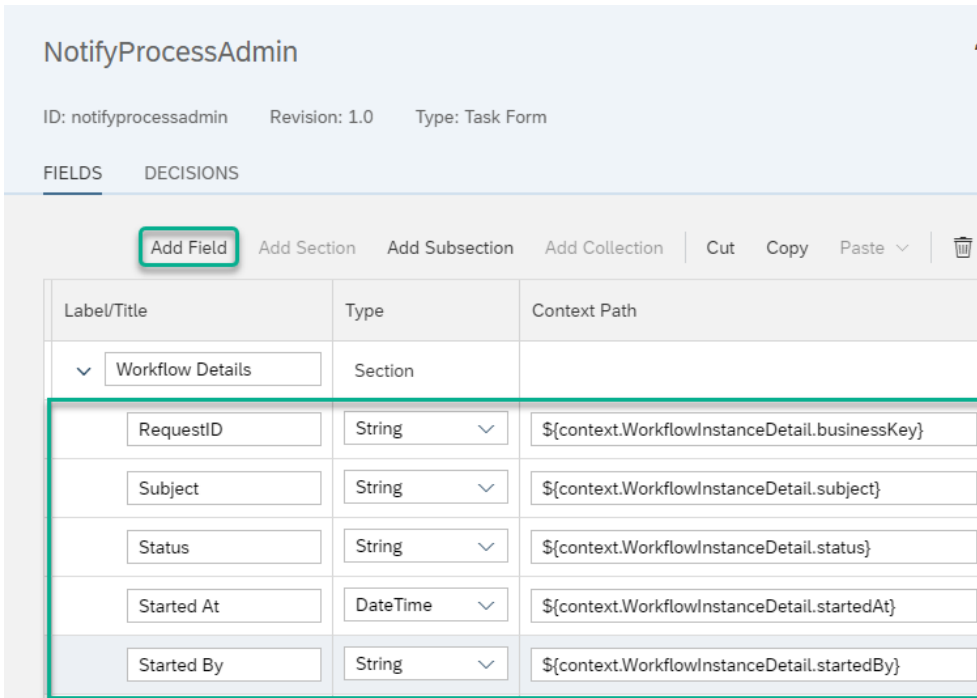
| Explanation | Screenshot |
|--|---|
| <div>29. Select DETAILS tab.</div> <div>30. Set the following Service Task Properties.</div> <div>Destination: WorkflowOAuth2ClientCredentials</div> <div>Path: /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</div> <div>HTTP Method: GET</div> <div>Response Variable: \${context.WorkflowInstanceDetail}</div> | <div><h3>Service Task Properties</h3><div><div>GENERAL</div><div>DETAILS</div></div><div><div>* Destination</div><div>WorkflowOAuth2ClientCredentials</div></div><div><div>* Choose a Service from</div><div>Others</div></div><div><div>Path</div><div>/v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</div></div><div><div>* HTTP Method</div><div>GET</div></div><div><div>Response Variable</div><div>\${context.WorkflowInstanceDetail}</div></div><div><div><input type="checkbox"/> Principal Propagation</div></div></div> |

| Explanation | Screenshot |
|--|--|
| <p>32. Select Sequence Flow between Exclusive Gateway (Sub Status) and UserTask1 and update Name.</p> <p>Name: Overdue or Risk</p> |  |
| <p>33. Check the Default check box.</p> | |
| <p>34. Select Sequence Flow between Exclusive Gateway (Sub Status) and ServiceTask2.</p> <p>Name: Failed or Suspended Condition: \${context.WorkflowInstanceDetail.status=="ERROR" context.WorkflowInstanceDetail.status=="SUSPENDED"}</p> |  |
| <p>35. Select ServiceTask2 and update Name.</p> <p>Name: Get Error</p> |  |

| Explanation | Screenshot |
|--|---|
| <p>36. Select DETAILS tab.</p> <p>37. Set the following Service Task Properties.</p> <p>Destination: WorkflowOAuth2ClientCredentials</p> <p>Path: /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}/error-messages</p> <p>HTTP Method: GET</p> <p>Response Variable: \${context.WorkflowInstanceDetail.ErrorMessage}</p> |  <p>Service Task Properties</p> <p>GENERAL DETAILS</p> <p>* Destination</p> <p>WorkflowOAuth2ClientCredentials</p> <p>* Choose a Service from</p> <p>Others</p> <p>Path</p> <p>/v1/workflow-instances/\${context.CostCenterOwnerApprovalID}/error-messages</p> <p>* HTTP Method</p> <p>GET</p> <p>Response Variable</p> <p>\${context.WorkflowInstanceDetail.ErrorMessage}</p> <p><input type="checkbox"/> Principal Propagation</p> |
| <p>38. Select UserTask3 and update Name.</p> <p>Name: Notify Process Admin</p> |  <p>User Task Properties</p> <p>GENERAL DETAILS USER INTERFACE ATTRIBUTES</p> <p>ID</p> <p>usertask3</p> <p>* Name</p> <p>Notify Process Admin</p> <p>Documentation</p> <p><input checked="" type="checkbox"/> Show in inbox workflow log.</p> |

| Explanation | Screenshot |
|---|---|
| <p>39. Select DETAILS tab and set the following User Task properties.</p> <p>Priority: High</p> <p>Subject: Workflow Instance <code>\${context.CostCenterOwnerApprovalID}</code> failed or suspended</p> <p>Users: your cloud platform trial user id (email id)</p> | <p>User Task Properties</p> <p>GENERAL DETAILS USER INTERFACE ATTRIBUTES</p> <p>* Priority</p> <p>High</p> <p>Display Texts</p> <p>* Subject</p> <p>Workflow Instance <code>\${context.CostCenterOwnerApprovalID}</code> failed or suspended</p> <p>Description</p> <p>Recipients</p> <p>Users</p> <p>Groups</p> <p>Due Date</p> <p><input type="checkbox"/> Configure Due Date</p> |

| Explanation | Screenshot | | | | | | |
|---|--|--------------|------|--------------|--|--|--|
| <p>40. Select USER INTERFACE section.</p> <p>41. Change the type as Form.</p> <p>42. Click the link Create File.</p> <p>43. A popup window is available now to enter the Form details.</p> |  <p>User Task Properties</p> <p>GENERAL DETAILS USER INTERFACE ATTRIBUTES</p> <p>*Type Form</p> <p>Form Details</p> <p>*File Name Create File Select</p> <p>*ID</p> <p>*Revision</p> | | | | | | |
| <p>44. Set the following.</p> <p>Name: NotifyProcessAdmin Revision: 1.0</p> <p>45. Click Create button.</p> |  <p>New Form</p> <p>*Name NotifyProcessAdmin</p> <p>*ID notifyprocessadmin</p> <p>*Revision 1.0</p> <p>Type Task Form</p> <p>Create Cancel</p> | | | | | | |
| <p>46. Click Add Section.</p> |  <p>NotifyProcessAdmin</p> <p>ID: notifyprocessadmin Revision: 1.0 Type: Task Form</p> <p>FIELDS DECISIONS</p> <p>Add Field Add Section Add Subsection Add Collection Cut Copy Paste</p> <table><thead><tr><th>Label/Title</th><th>Type</th><th>Context Path</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table> | Label/Title | Type | Context Path | | | |
| Label/Title | Type | Context Path | | | | | |
| | | | | | | | |

| Explanation | Screenshot | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------|-----------|--------|--|---------|--------|--|--------|--------|---|------------|----------|--|------------|--------|--|---|
| <div>47. Update the Label/Title of the new Section as Workflow Details.</div> <div>48. Click Add Field.</div> |  | | | | | | | | | | | | | | | | | | |
| <div>49. Add five fields and update the Label/Title, Type and Context Path as given below.</div> <div>Please copy the Context Path from the attached file NotifyProcessAdminTask.</div> <table><tr><th>Label</th><th>Type</th><th>Context Path</th></tr><tr><td>RequestID</td><td>String</td><td>\${context.WorkflowInstanceDetail.businessKey}</td></tr><tr><td>Subject</td><td>String</td><td>\${context.WorkflowInstanceDetail.subject}</td></tr><tr><td>Status</td><td>String</td><td>\${context.WorkflowInstanceDetail.status}</td></tr><tr><td>Started At</td><td>DateTime</td><td>\${context.WorkflowInstanceDetail.startedAt}</td></tr><tr><td>Started By</td><td>String</td><td>\${context.WorkflowInstanceDetail.startedBy}</td></tr></table> | Label | Type | Context Path | RequestID | String | \${context.WorkflowInstanceDetail.businessKey} | Subject | String | \${context.WorkflowInstanceDetail.subject} | Status | String | \${context.WorkflowInstanceDetail.status} | Started At | DateTime | \${context.WorkflowInstanceDetail.startedAt} | Started By | String | \${context.WorkflowInstanceDetail.startedBy} |  |
| Label | Type | Context Path | | | | | | | | | | | | | | | | | |
| RequestID | String | \${context.WorkflowInstanceDetail.businessKey} | | | | | | | | | | | | | | | | | |
| Subject | String | \${context.WorkflowInstanceDetail.subject} | | | | | | | | | | | | | | | | | |
| Status | String | \${context.WorkflowInstanceDetail.status} | | | | | | | | | | | | | | | | | |
| Started At | DateTime | \${context.WorkflowInstanceDetail.startedAt} | | | | | | | | | | | | | | | | | |
| Started By | String | \${context.WorkflowInstanceDetail.startedBy} | | | | | | | | | | | | | | | | | |

Explanation

50. Select section **Workflow Details** and Click **Add Section**.

Screenshot

NotifyProcessAdmin

ID: notifyprocessadmin Revision: 1.0 Type: Task Form

FIELDS DECISIONS

Add Field Add Section Add Subsection Add Collection Cut Copy Paste

| Label/Title | Type | Context Path |
|------------------------------|---------------------|---|
| <div> Workflow Details</div> | Section | |
| <div>RequestID</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.businessKey}</div> |
| <div>Subject</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.subject}</div> |
| <div>Status</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.status}</div> |
| <div>Started At</div> | <div>DateTime</div> | <div>\${context.WorkflowInstanceDetail.startedAt}</div> |
| <div>Started By</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.startedBy}</div> |

51. Update the Section **Label/Title** as **Errors**.

52. Click **Add Collection**.

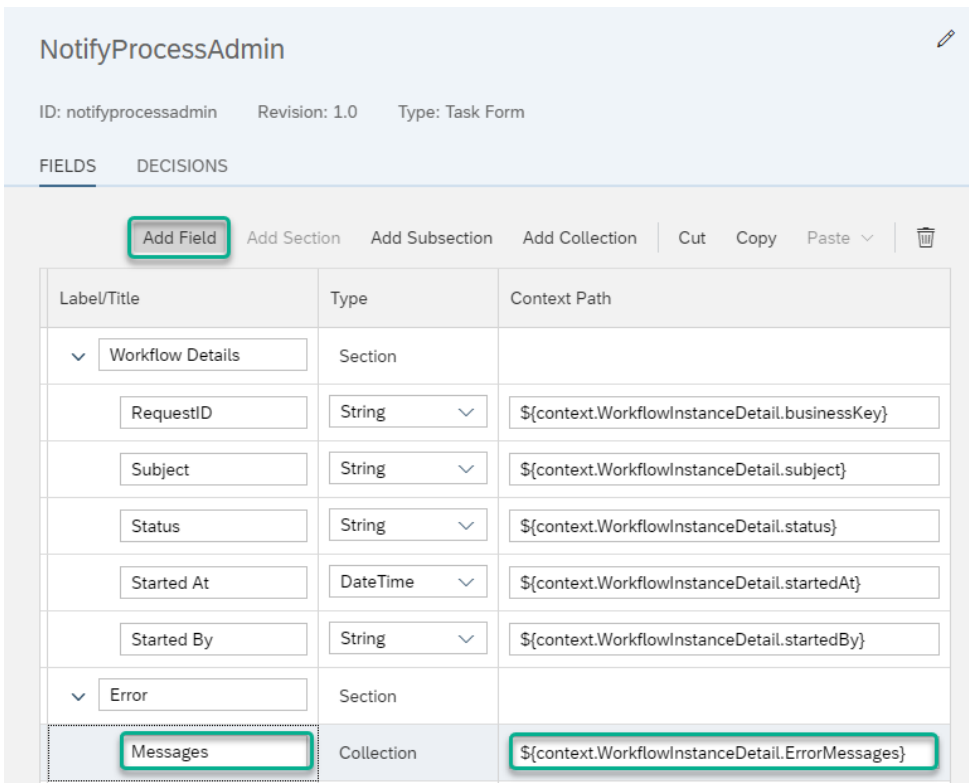
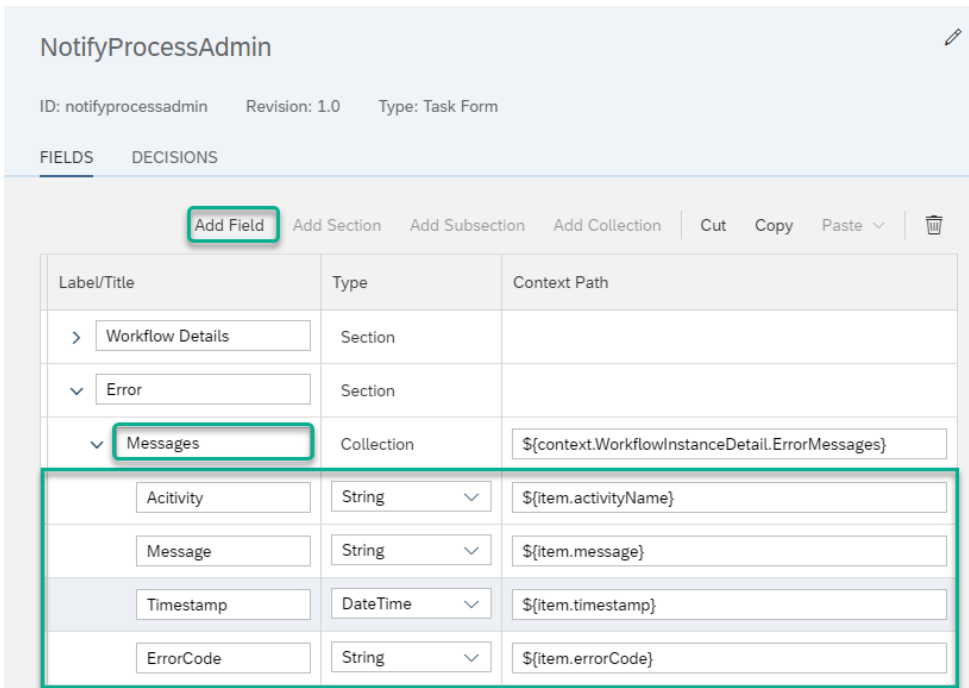
NotifyProcessAdmin

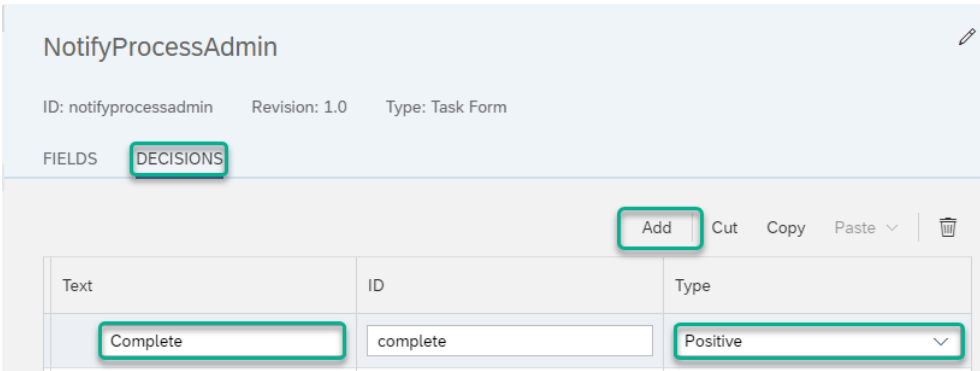
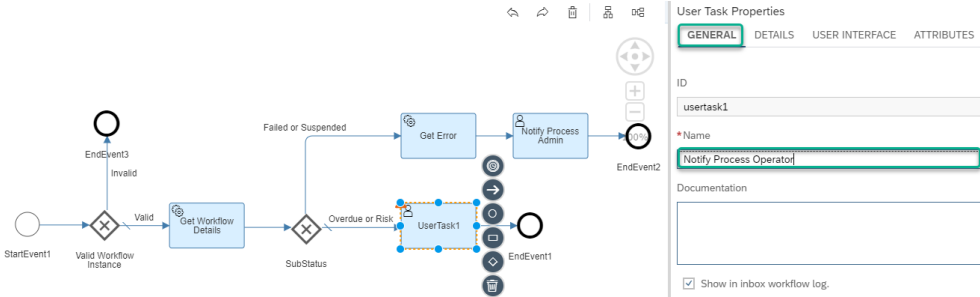
ID: notifyprocessadmin Revision: 1.0 Type: Task Form

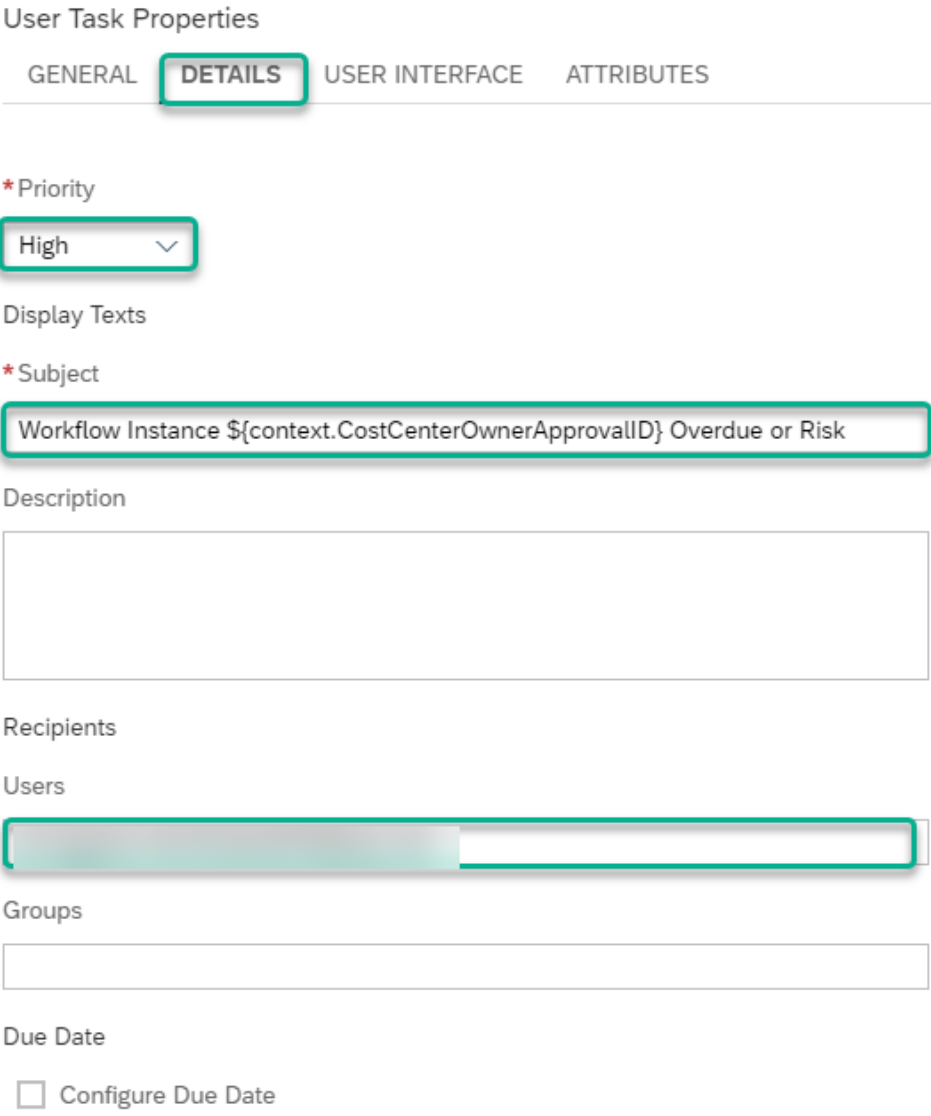
FIELDS DECISIONS

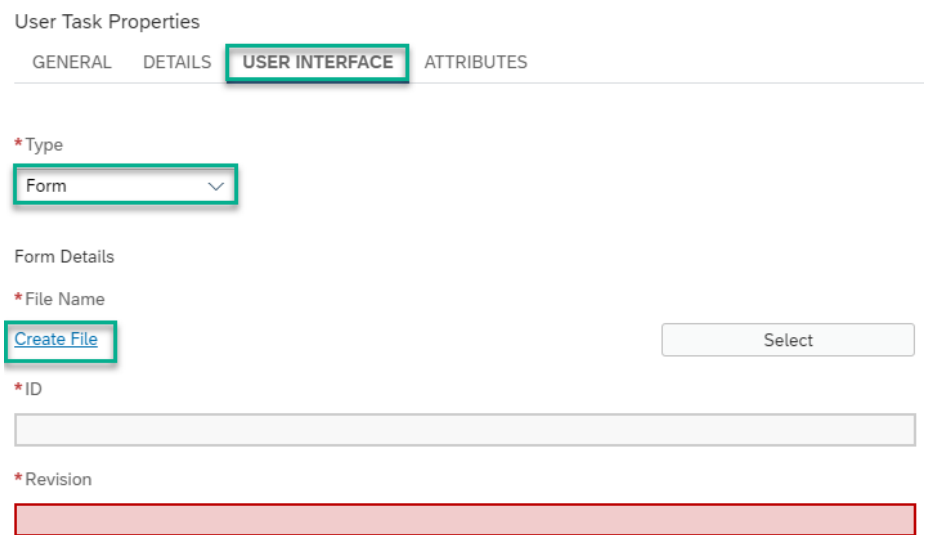
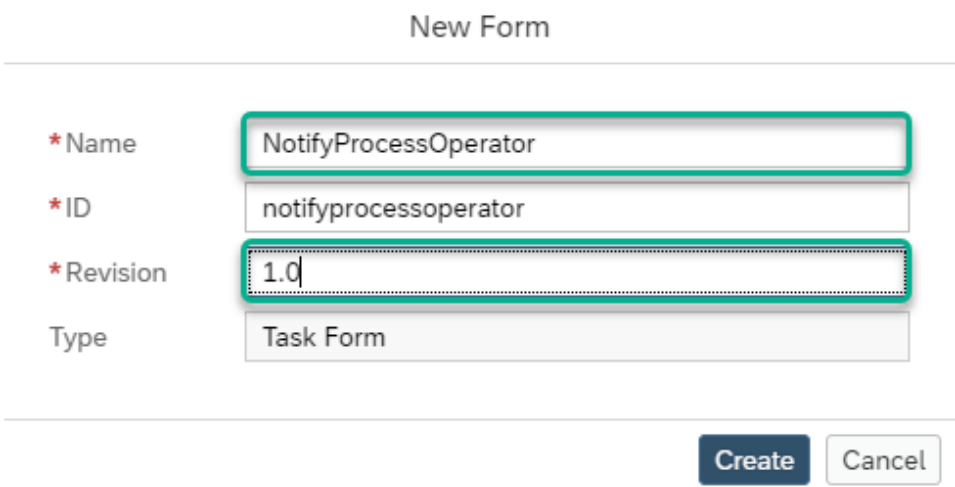
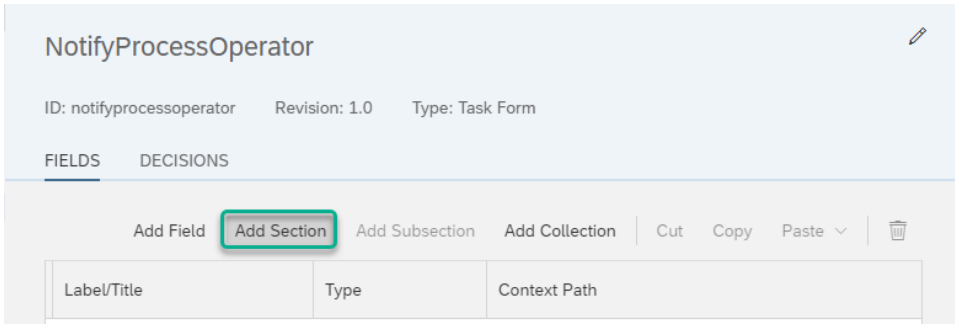
Add Field Add Section Add Subsection Add Collection Cut Copy Paste

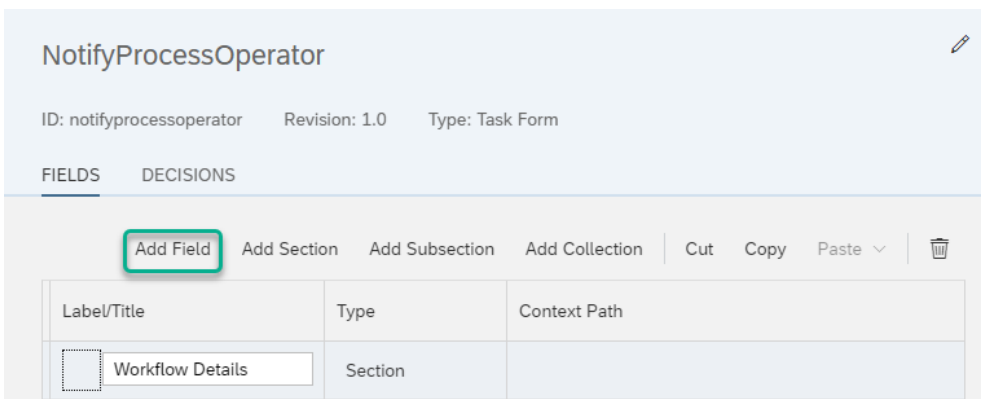
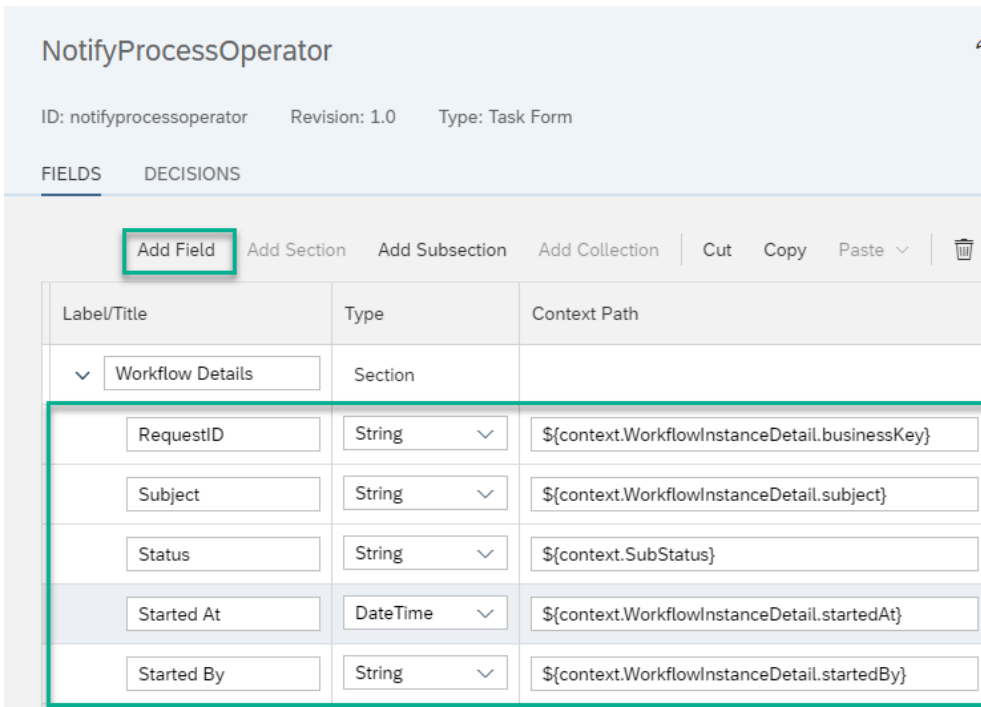
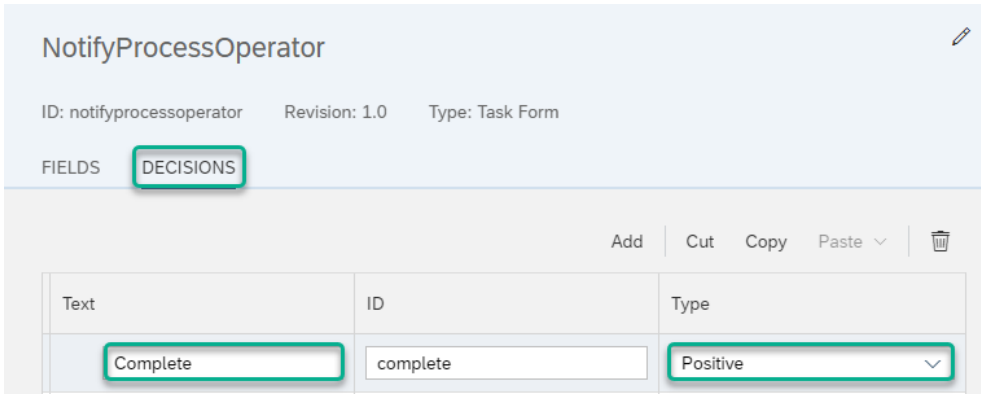
| Label/Title | Type | Context Path |
|------------------------------|---------------------|---|
| <div> Workflow Details</div> | Section | |
| <div>RequestID</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.businessKey}</div> |
| <div>Subject</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.subject}</div> |
| <div>Status</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.status}</div> |
| <div>Started At</div> | <div>DateTime</div> | <div>\${context.WorkflowInstanceDetail.startedAt}</div> |
| <div>Started By</div> | <div>String</div> | <div>\${context.WorkflowInstanceDetail.startedBy}</div> |
| <div>Errors</div> | Section | |

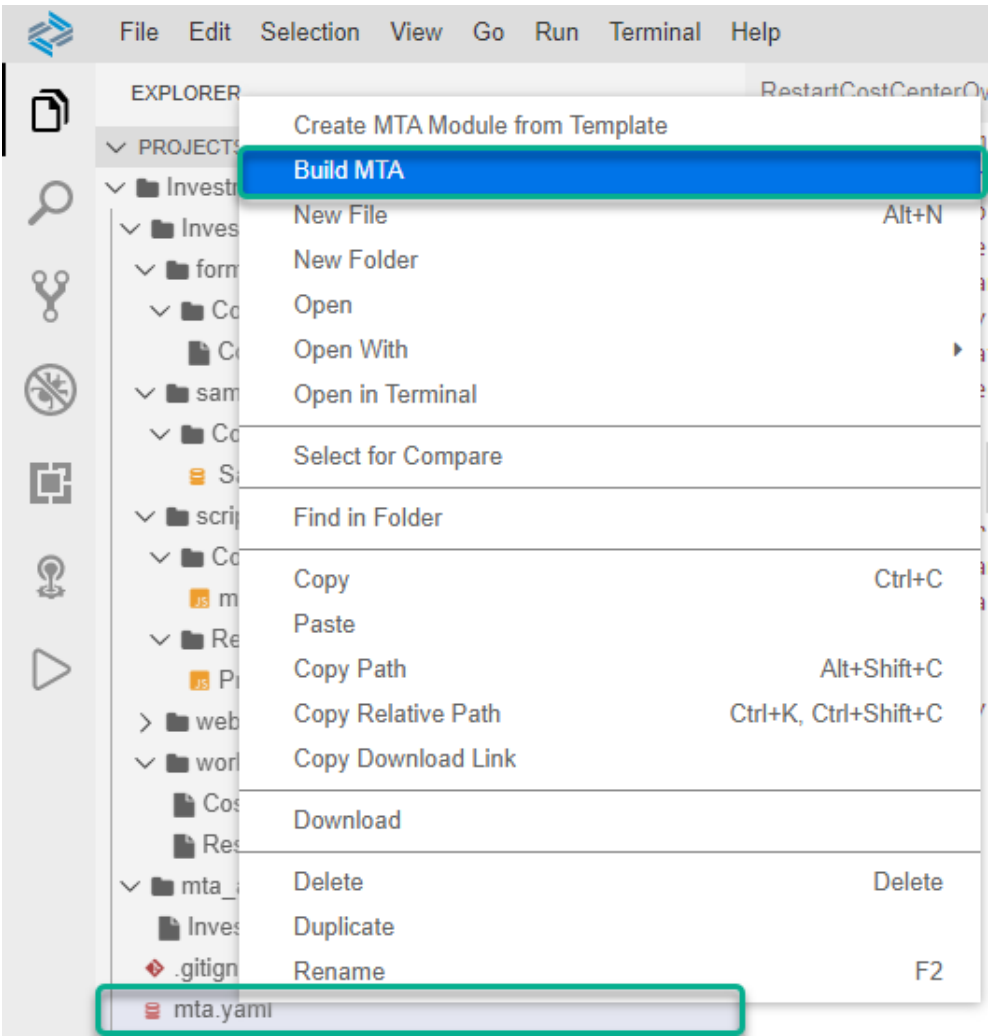
| Explanation | Screenshot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--------------|--------------|------------------|------------------------------------|---------|-----------|-------------------------------|---|----------|---------------------------------|---|--------|---------------------------------|---|-------------|----------|---|------------------|---------|---|-------|---------|--|----------|------------|--|----------|--------|------------------------------------|---------|--------|-------------------------------|-----------|----------|---------------------------------|------------|--------|---------------------------------|
| <p>53. Update the Label/Title of the Collection as Messages.</p> <p>54. Update the Context Path as <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code></p> <p>55. Click Add Field.</p> |  <p>The screenshot shows the 'NotifyProcessAdmin' form editor. The 'Messages' collection is highlighted with a red box. The 'Add Field' button is circled in red. The table below shows the current state of the form:</p> <table><tr><th>Label/Title</th><th>Type</th><th>Context Path</th></tr><tr><td>Workflow Details</td><td>Section</td><td></td></tr><tr><td>RequestID</td><td>String</td><td><code>\${context.WorkflowInstanceDetail.businessKey}</code></td></tr><tr><td>Subject</td><td>String</td><td><code>\${context.WorkflowInstanceDetail.subject}</code></td></tr><tr><td>Status</td><td>String</td><td><code>\${context.WorkflowInstanceDetail.status}</code></td></tr><tr><td>Started At</td><td>DateTime</td><td><code>\${context.WorkflowInstanceDetail.startedAt}</code></td></tr><tr><td>Started By</td><td>String</td><td><code>\${context.WorkflowInstanceDetail.startedBy}</code></td></tr><tr><td>Error</td><td>Section</td><td></td></tr><tr><td>Messages</td><td>Collection</td><td><code>\${context.WorkflowInstanceDetail.ErrorMessage}</code></td></tr></table> | Label/Title | Type | Context Path | Workflow Details | Section | | RequestID | String | <code>\${context.WorkflowInstanceDetail.businessKey}</code> | Subject | String | <code>\${context.WorkflowInstanceDetail.subject}</code> | Status | String | <code>\${context.WorkflowInstanceDetail.status}</code> | Started At | DateTime | <code>\${context.WorkflowInstanceDetail.startedAt}</code> | Started By | String | <code>\${context.WorkflowInstanceDetail.startedBy}</code> | Error | Section | | Messages | Collection | <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code> | | | | | | | | | | | | |
| Label/Title | Type | Context Path | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Workflow Details | Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RequestID | String | <code>\${context.WorkflowInstanceDetail.businessKey}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subject | String | <code>\${context.WorkflowInstanceDetail.subject}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Status | String | <code>\${context.WorkflowInstanceDetail.status}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Started At | DateTime | <code>\${context.WorkflowInstanceDetail.startedAt}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Started By | String | <code>\${context.WorkflowInstanceDetail.startedBy}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error | Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Messages | Collection | <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>56. Add four Fields under the Collection Messages.</p> <p>57. Update the Label/Title, Type and Context path of the new fields as given below.</p> <p>Please copy the Context Path from the attached file NotifyProcessAdminTask.</p> <table><tr><th>Label</th><th>Type</th><th>Context Path</th></tr><tr><td>Activity</td><td>String</td><td><code>\${item.activityName}</code></td></tr><tr><td>Message</td><td>String</td><td><code>\${item.message}</code></td></tr><tr><td>Time Stamp</td><td>DateTime</td><td><code>\${item.timestamp}</code></td></tr><tr><td>Error Code</td><td>String</td><td><code>\${item.errorCode}</code></td></tr></table> | Label | Type | Context Path | Activity | String | <code>\${item.activityName}</code> | Message | String | <code>\${item.message}</code> | Time Stamp | DateTime | <code>\${item.timestamp}</code> | Error Code | String | <code>\${item.errorCode}</code> |  <p>The screenshot shows the 'NotifyProcessAdmin' form editor. The 'Messages' collection is highlighted with a red box. The 'Add Field' button is circled in red. The table below shows the current state of the form:</p> <table><tr><th>Label/Title</th><th>Type</th><th>Context Path</th></tr><tr><td>Workflow Details</td><td>Section</td><td></td></tr><tr><td>Error</td><td>Section</td><td></td></tr><tr><td>Messages</td><td>Collection</td><td><code>\${context.WorkflowInstanceDetail.ErrorMessage}</code></td></tr><tr><td>Activity</td><td>String</td><td><code>\${item.activityName}</code></td></tr><tr><td>Message</td><td>String</td><td><code>\${item.message}</code></td></tr><tr><td>Timestamp</td><td>DateTime</td><td><code>\${item.timestamp}</code></td></tr><tr><td>Error Code</td><td>String</td><td><code>\${item.errorCode}</code></td></tr></table> | Label/Title | Type | Context Path | Workflow Details | Section | | Error | Section | | Messages | Collection | <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code> | Activity | String | <code>\${item.activityName}</code> | Message | String | <code>\${item.message}</code> | Timestamp | DateTime | <code>\${item.timestamp}</code> | Error Code | String | <code>\${item.errorCode}</code> |
| Label | Type | Context Path | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | String | <code>\${item.activityName}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Message | String | <code>\${item.message}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Stamp | DateTime | <code>\${item.timestamp}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error Code | String | <code>\${item.errorCode}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Label/Title | Type | Context Path | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Workflow Details | Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error | Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Messages | Collection | <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | String | <code>\${item.activityName}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Message | String | <code>\${item.message}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Timestamp | DateTime | <code>\${item.timestamp}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error Code | String | <code>\${item.errorCode}</code> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

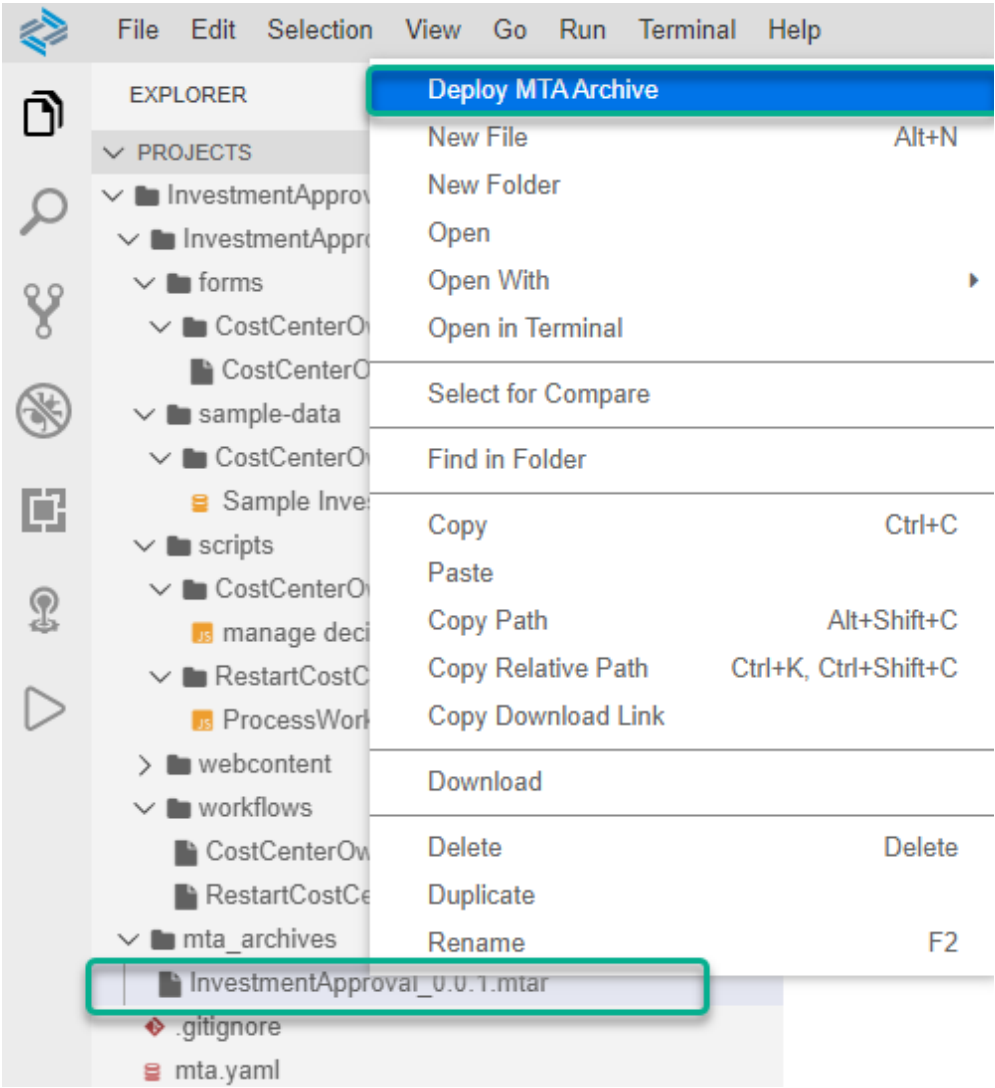
| Explanation | Screenshot |
|--|--|
| <div>58. Click DECISIONS.</div> <div>59. Click Add to create a new decision.</div> <div>60. Update the Text and Type.</div> <div>Text: Complete</div> <div>Type: Positive</div> |  <p>The screenshot shows the 'NotifyProcessAdmin' task form. The 'DECISIONS' tab is selected. An 'Add' button is highlighted. Below it, a table shows a decision with 'Text' set to 'Complete' and 'Type' set to 'Positive'.</p> |
| <div>61. Select UserTask1.</div> <div>62. Select GENERAL section of User Task Properties.</div> <div>63. Update Name as Notify Process Operator.</div> |  <p>The screenshot shows the BPMN diagram and the 'User Task Properties' panel. The 'GENERAL' tab is selected, and the 'Name' field is updated to 'Notify Process Operator'.</p> |

| Explanation | Screenshot |
|--|--|
| <p>64. Select DETAILS tab and set the following User Task properties.</p> <p>Priority: High</p> <p>Subject: Workflow Instance \${context.CostCenterOwnerApprovalID} Overdue or Risk</p> <p>65. Users: your cloud platform trial user id (email id)</p> |  <p>The screenshot shows the 'User Task Properties' dialog box with the 'DETAILS' tab selected. The 'Priority' dropdown menu is set to 'High'. The 'Subject' text field contains the text 'Workflow Instance \${context.CostCenterOwnerApprovalID} Overdue or Risk'. The 'Users' field is empty. The 'Groups' field is empty. The 'Due Date' checkbox is unchecked.</p> |

| Explanation | Screenshot | | | | | | |
|---|--|--------------|------|--------------|--|--|--|
| <p>66. Select USER INTERFACE section.</p> <p>67. Change the type as Form.</p> <p>68. Click the link Create File.</p> <p>69. A popup window is available now to enter the Form details.</p> |  <p>User Task Properties</p> <p>GENERAL DETAILS USER INTERFACE ATTRIBUTES</p> <p>*Type Form</p> <p>Form Details</p> <p>*File Name Create File Select</p> <p>*ID</p> <p>*Revision</p> | | | | | | |
| <p>70. Set the following.</p> <p>Name: NotifyProcessOperator Revision: 1.0</p> <p>71. Click Create button.</p> |  <p>New Form</p> <p>*Name NotifyProcessOperator</p> <p>*ID notifyprocessoperator</p> <p>*Revision 1.0</p> <p>Type Task Form</p> <p>Create Cancel</p> | | | | | | |
| <p>72. Click Add Section.</p> |  <p>NotifyProcessOperator</p> <p>ID: notifyprocessoperator Revision: 1.0 Type: Task Form</p> <p>FIELDS DECISIONS</p> <p>Add Field Add Section Add Subsection Add Collection Cut Copy Paste</p> <table><thead><tr><th>Label/Title</th><th>Type</th><th>Context Path</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table> | Label/Title | Type | Context Path | | | |
| Label/Title | Type | Context Path | | | | | |
| | | | | | | | |

| Explanation | Screenshot | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------|-----------|--------|--|---------|--------|--|--------|--------|-----------------------|------------|----------|--|------------|--------|--|---|
| <p>73. Update the Label/Title of the new section as Workflow Details.</p> <p>74. Click Add Field.</p> |  | | | | | | | | | | | | | | | | | | |
| <p>75. Add five Fields and update the Label/Title, Type and Context Path as given below.</p> <table><tr><th>Label</th><th>Type</th><th>Context Path</th></tr><tr><td>RequestID</td><td>String</td><td>\${context.WorkflowInstanceDetail.businessKey}</td></tr><tr><td>Subject</td><td>String</td><td>\${context.WorkflowInstanceDetail.subject}</td></tr><tr><td>Status</td><td>String</td><td>\${context.SubStatus}</td></tr><tr><td>Started At</td><td>DateTime</td><td>\${context.WorkflowInstanceDetail.startedAt}</td></tr><tr><td>Started By</td><td>String</td><td>\${context.WorkflowInstanceDetail.startedBy}</td></tr></table> <p>Please copy the Context Path from the attached file NotifyProcessOperatorTask.</p> | Label | Type | Context Path | RequestID | String | \${context.WorkflowInstanceDetail.businessKey} | Subject | String | \${context.WorkflowInstanceDetail.subject} | Status | String | \${context.SubStatus} | Started At | DateTime | \${context.WorkflowInstanceDetail.startedAt} | Started By | String | \${context.WorkflowInstanceDetail.startedBy} |  |
| Label | Type | Context Path | | | | | | | | | | | | | | | | | |
| RequestID | String | \${context.WorkflowInstanceDetail.businessKey} | | | | | | | | | | | | | | | | | |
| Subject | String | \${context.WorkflowInstanceDetail.subject} | | | | | | | | | | | | | | | | | |
| Status | String | \${context.SubStatus} | | | | | | | | | | | | | | | | | |
| Started At | DateTime | \${context.WorkflowInstanceDetail.startedAt} | | | | | | | | | | | | | | | | | |
| Started By | String | \${context.WorkflowInstanceDetail.startedBy} | | | | | | | | | | | | | | | | | |
| <p>76. Click DECISIONS.</p> <p>77. Click Add to create a new decision.</p> <p>78. Update the Text and Type.</p> <p>Text: Complete Type: Positive</p> |  | | | | | | | | | | | | | | | | | | |

| Explanation | Screenshot |
|---|---|
| <p>79. Right click on mta.yaml file.</p> <p>80. Select Build MTA.</p> <p>81. This will start the MTA build and it may take a few seconds to create the mta archives under the folder mta_archives.</p> |  |

| Explanation | Screenshot |
|--|---|
| <div>82. Successful build will update the .mtar file and show message in the build logs.</div> <div>83. Select the .mtar file and right click.</div> <div>84. Click Deploy MTA Archive.</div> |  |
| <div>85. Successful deployment will show the log.</div> | <div><div>Problems Task: Deploy MTA Archive x</div><div>Uploading 1 files... /home/user/projects/InvestmentApproval/mta_archives/InvestmentApproval_0.0.1.mtar OK Operation ID: c443e49b-318f-11eb-a634-eeee0a8b72e6 Deploying in org "DEV264" and space "dev" Detected MTA schema version: "3" No deployed MTA detected - this is initial deployment Detected new MTA version: "0.0.1" Processing service "workflow_mta"... Creating service "workflow_mta" from MTA resource "workflow_mta"... 1 of 1 done Creating service key "InvestmentApprovalWorkflow-workflow_mta-credentials" for service "workflow_mta"... Uploading content module "InvestmentApprovalWorkflow" in target service "workflow_mta"... Deploying content module "InvestmentApprovalWorkflow" in target service "workflow_mta"... Skipping deletion of services, because the command line option "--delete-services" is not specified. Process finished. Use "cf dmo1 -i c443e49b-318f-11eb-a634-eeee0a8b72e6" to download the logs of the process.</div><div>Terminal will be reused by tasks.</div></div> |

SUMMARY

You have modeled an action workflow and successfully deployed in your SAP Cloud Platform trial account. In the next hands on guide, you will consume this workflow to configure an action in SAP Cloud Platform Process Visibility.

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