

PUBLIC

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

DEV-264

Exercises / Solutions
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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

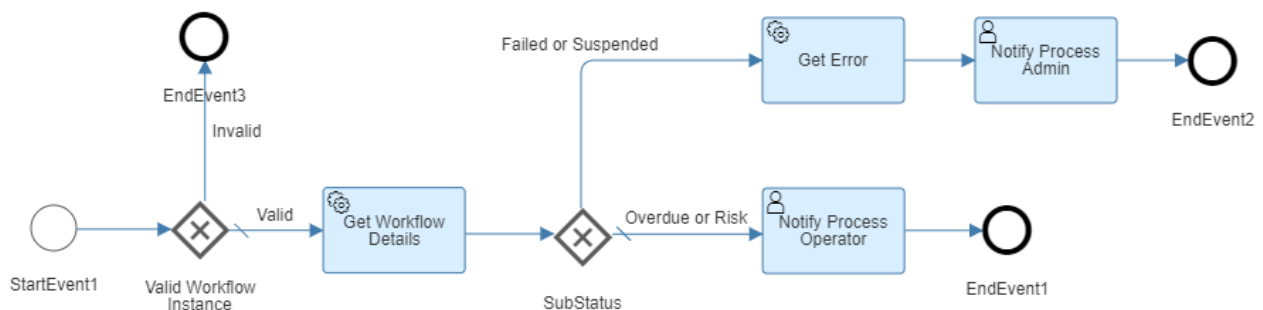
User triggered actions will be enabled when the process reach the preconfigured state and a user can trigger this action from process visibility. For eg: The process has exceeded the cycle time or at Risk or suspended or Failed.

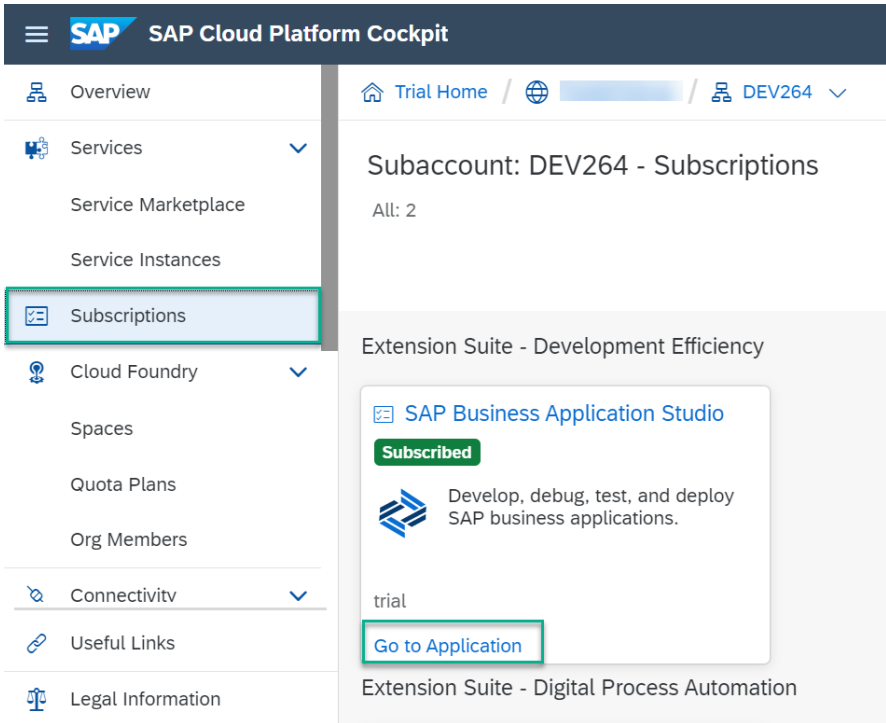
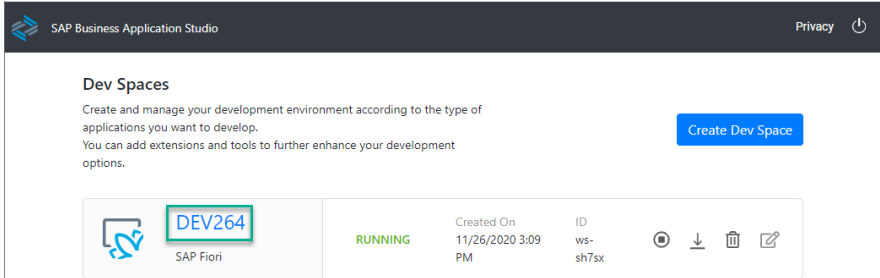
Prerequisite

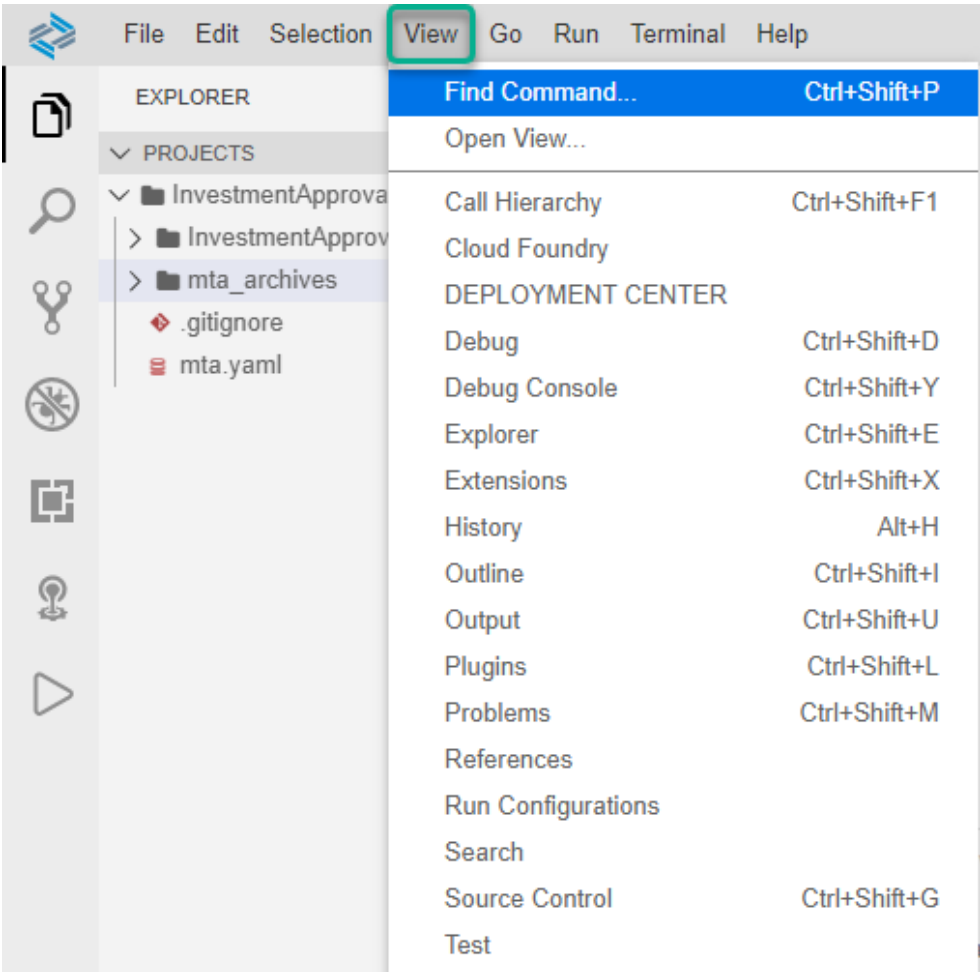
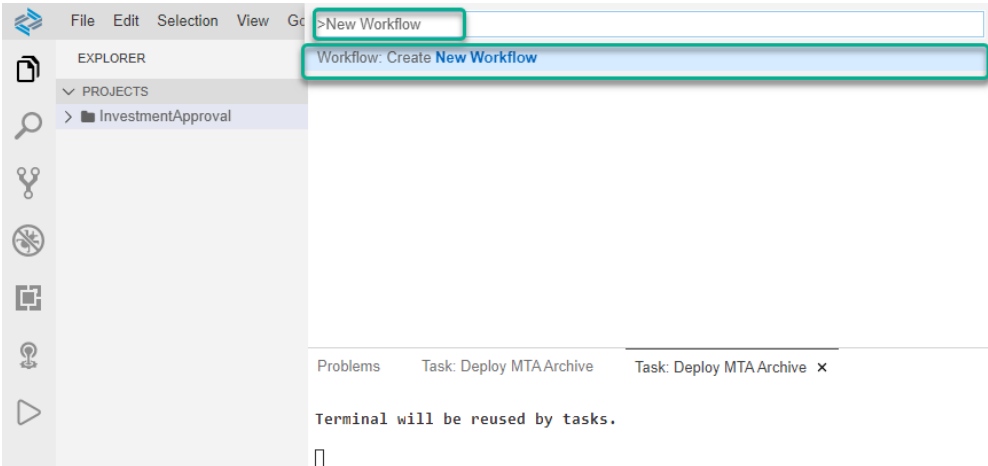
You have already configured your SAP Business Application Studio Workspace and Created the Investment Approval Workflow. Please refer [Model Workflow guide](#) how to build and deploy Investment Approval Workflow

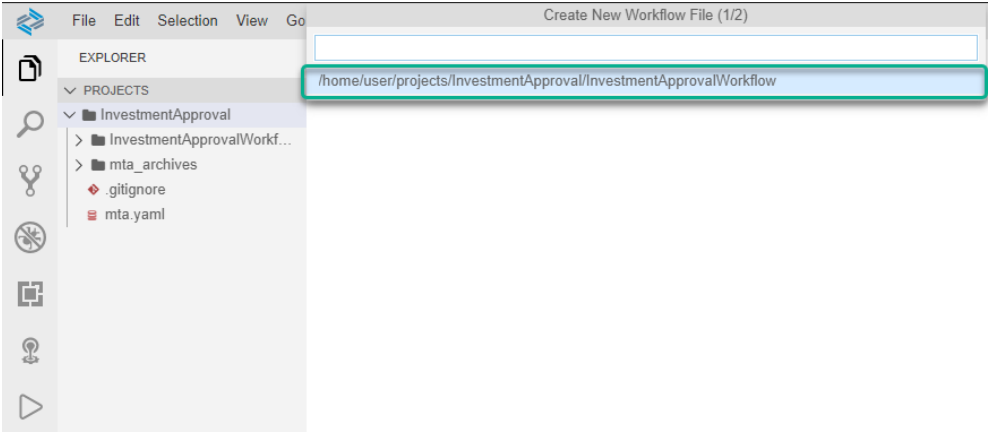
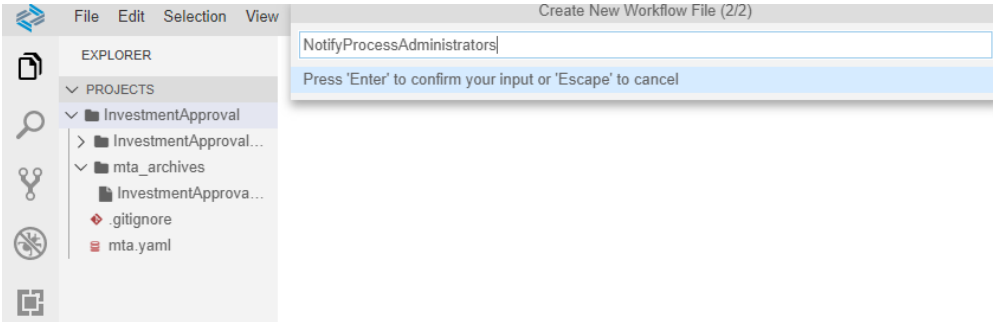
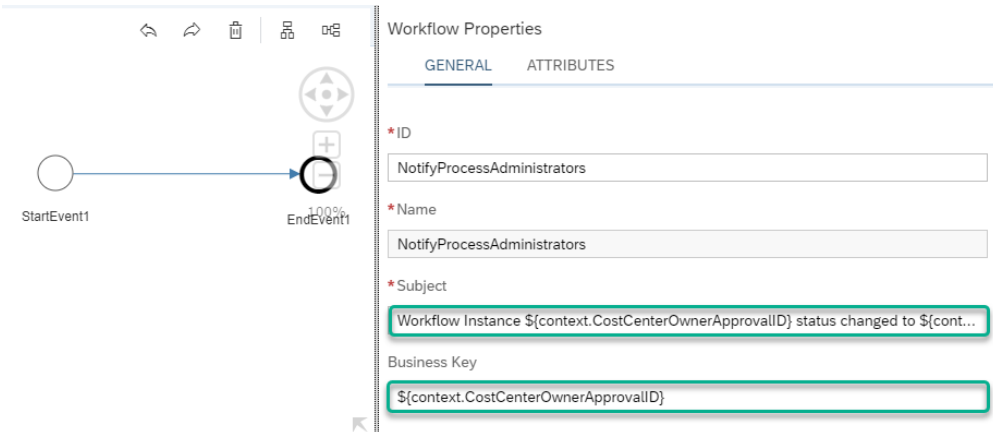
INSIGHT TO ACTION – NOTIFY PROCESS ADMINISTRATORS – SYSTEM TRIGGERED ACTION

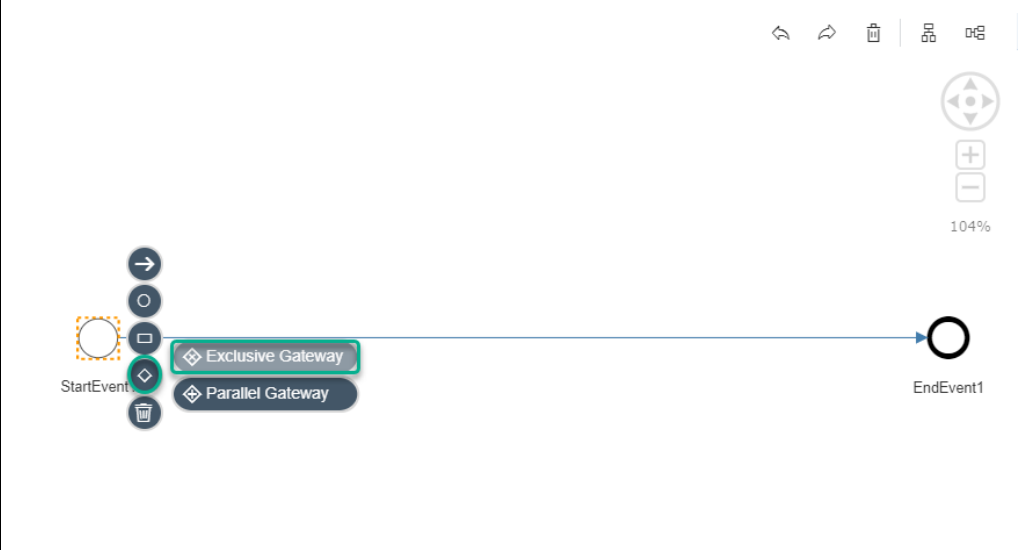
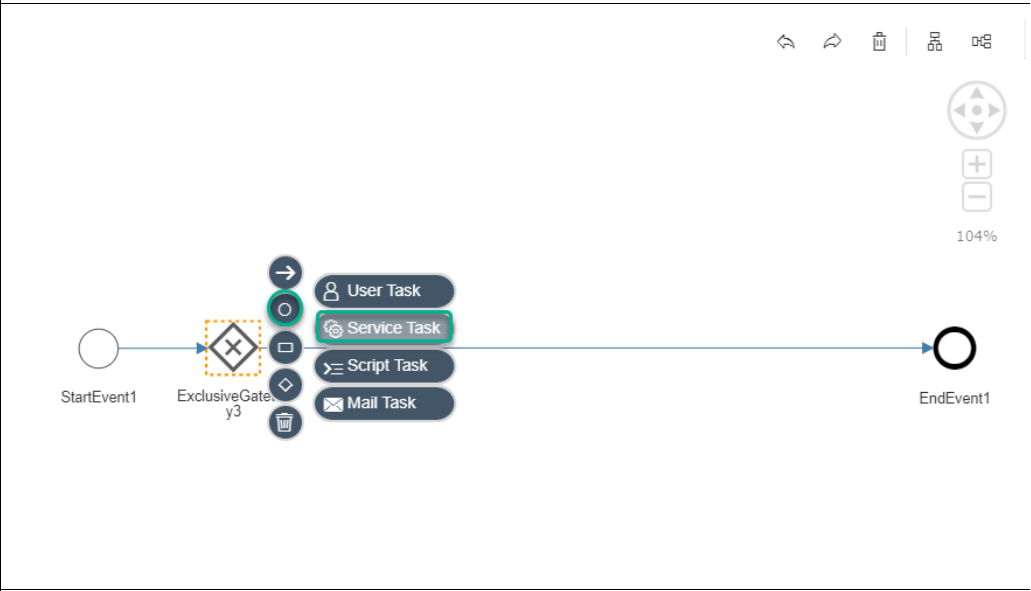
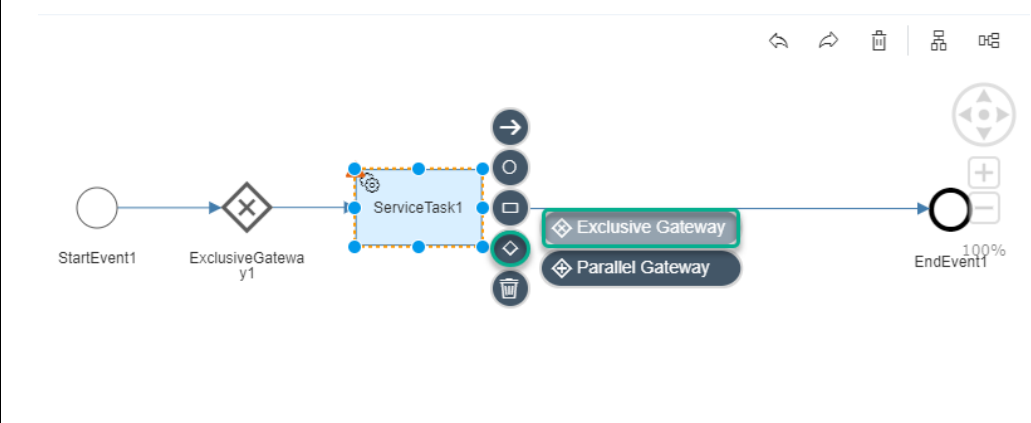
In this guide you will model a workflow to manage workflow status changes as actions from SAP Cloud Platform Process Visibility. The workflow is triggered from Process Visibility when Investment Approval Workflow Instances change status to Failed, Suspended, Overdue or at Risk.

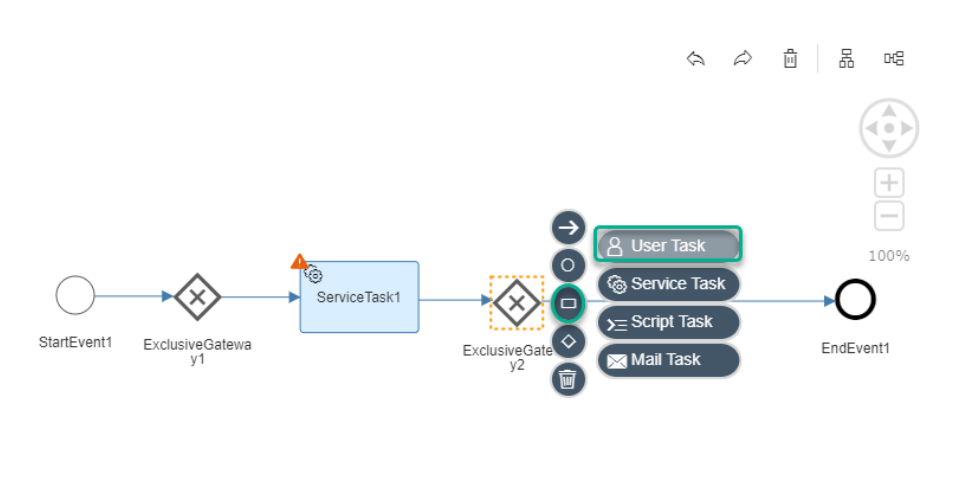
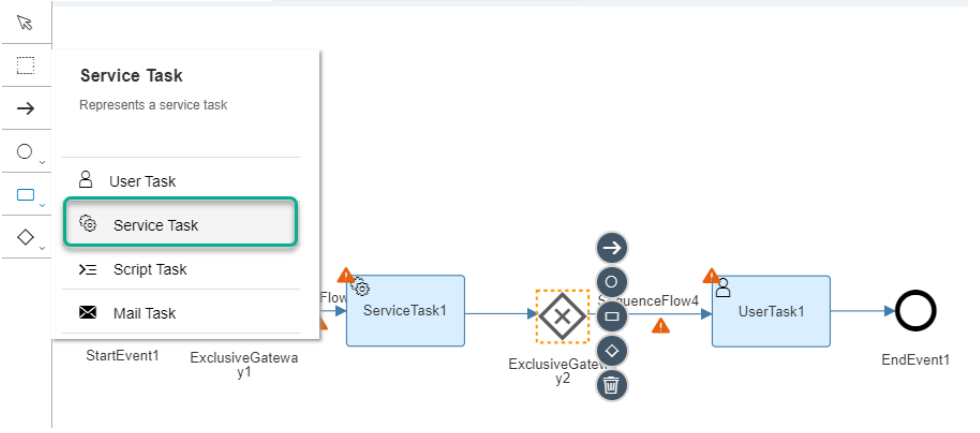
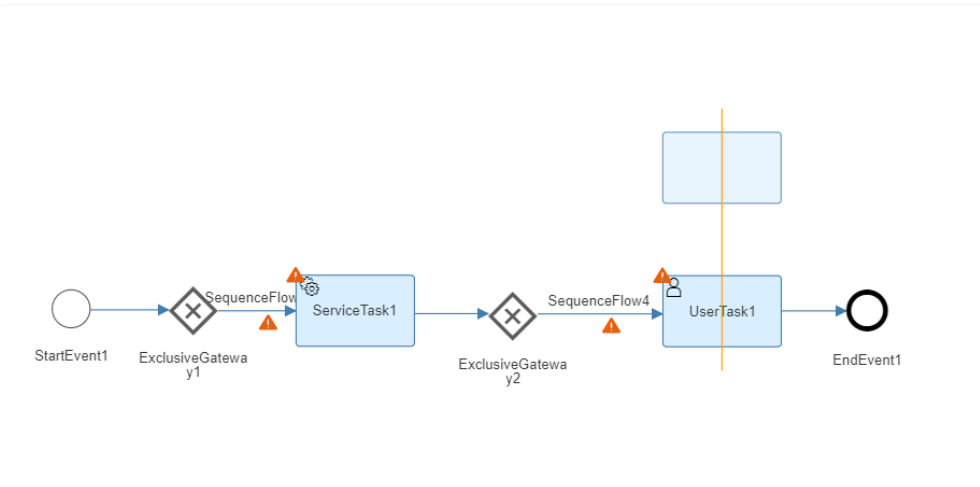


Explanation	Screenshot
<ol style="list-style-type: none"> 1. Select Subscriptions in your Sub Account and you see the subscribed applications. 2. Select SAP Business Application Studio and click Go to Application. <p>SAP Cloud Platform Business Application Studio will be opened in new browser window.</p>	 <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 subscribed applications, with a card for 'SAP Business Application Studio' prominently displayed. This card indicates the user is 'Subscribed' and provides a 'Go to Application' button, which is highlighted with a red box.</p>
<ol style="list-style-type: none"> 3. Click your Dev Space. 	 <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 located in the top right. Below this, a table lists existing Dev Spaces. The first entry, 'DEV264', is highlighted with a red box. It shows the space is 'RUNNING' and was created on 11/26/2020 at 3:09 PM.</p>

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 and their keyboard shortcuts. The 'Find Command...' option is highlighted at the top of the menu. 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 menu items include: Find Command... (Ctrl+Shift+P), Open View..., Call Hierarchy (Ctrl+Shift+F1), Cloud Foundry, DEPLOYMENT CENTER, Debug (Ctrl+Shift+D), Debug Console (Ctrl+Shift+Y), Explorer (Ctrl+Shift+E), Extensions (Ctrl+Shift+X), History (Alt+H), Outline (Ctrl+Shift+I), Output (Ctrl+Shift+U), Plugins (Ctrl+Shift+L), Problems (Ctrl+Shift+M), References, Run Configurations, Search, Source Control (Ctrl+Shift+G), and Test.
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 search results, with 'Workflow: Create New Workflow' selected and highlighted. The Explorer sidebar on the left shows the project structure. At the bottom of the interface, there are tabs for 'Problems', 'Task: Deploy MTA Archive', and 'Task: Deploy MTA Archive x'. A message at the bottom states 'Terminal will be reused by tasks.' and there is a small icon in the bottom left corner.

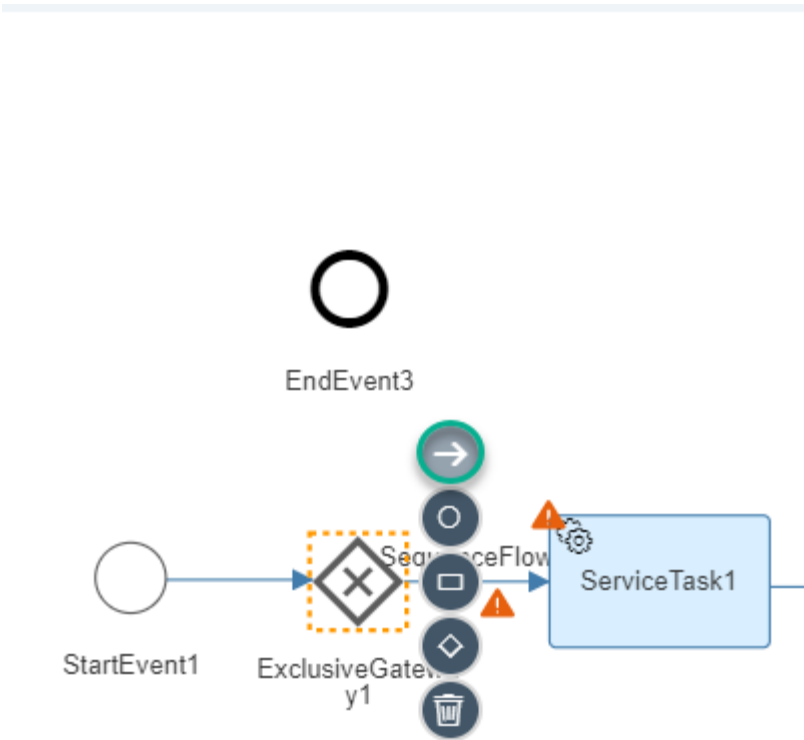
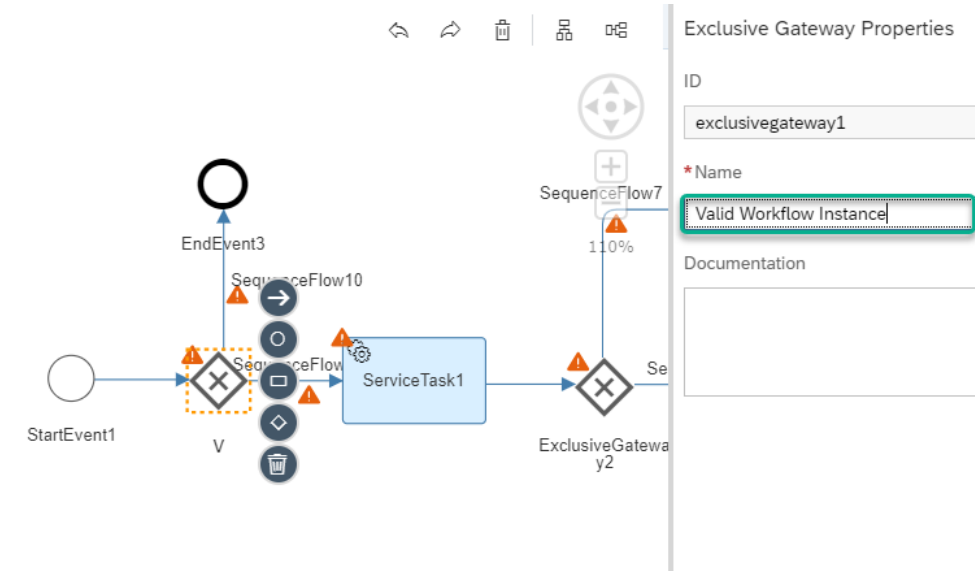
Explanation	Screenshot
7. Select the folder name.	
8. Enter the new Workflow name as NotifyProcessAdministrators . A new workflow has created and opened in the editor. Drag and drop the EndEvent towards right to add other workflow artifacts.	
9. Enter the following. Subject: Workflow Instance \${context.CostCenterOwnerApp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

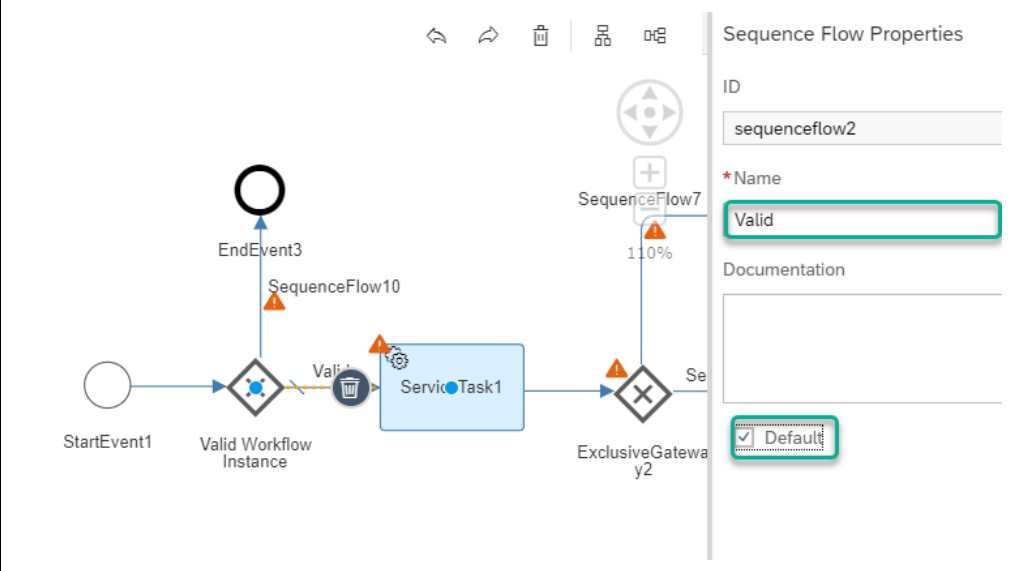
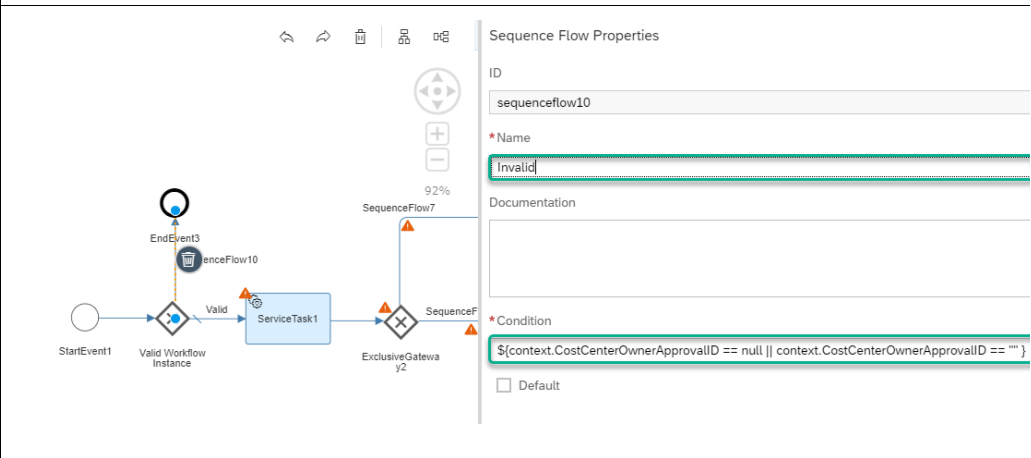
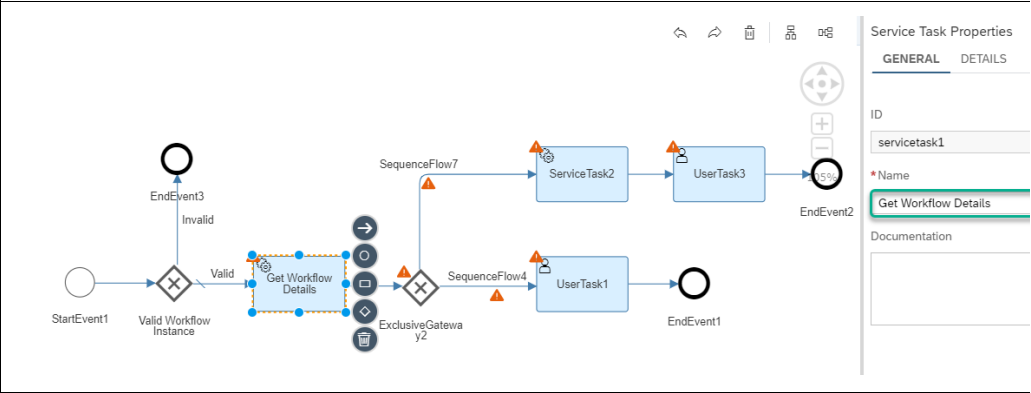
Explanation	Screenshot
10. Select Start Event and choose Exclusive Gateway from the speed button.	 <p>The screenshot shows a BPMN diagram with a StartEvent1 (circle) connected to an Exclusive Gateway (diamond). The speed button is open, showing Exclusive Gateway and Parallel Gateway options. The diagram 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>

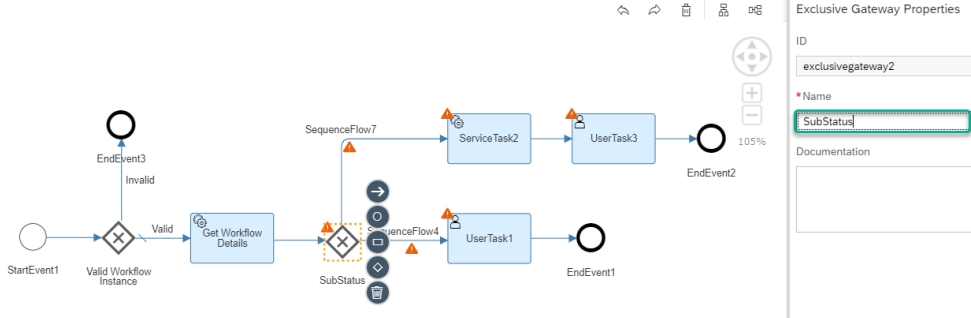
Explanation	Screenshot
13. Select ExclusiveGateway2 and choose User Task from the speed button.	 <p>The screenshot shows a BPMN diagram with the following elements: StartEvent1, ExclusiveGateway y1, ServiceTask1, ExclusiveGateway y2, and EndEvent1. A palette is open over ExclusiveGateway y2, displaying 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 over ExclusiveGateway y1, displaying options: User Task, Service Task (highlighted with a green border), Script Task, and Mail Task. The diagram is at 100% zoom.</p>
15. Drag and drop the Service Task above UserTask1 .	 <p>The screenshot shows the BPMN diagram after the Service Task has been dragged above UserTask1. The diagram includes StartEvent1, ExclusiveGateway y1, ServiceTask1, ExclusiveGateway y2, UserTask1, and EndEvent1. A new Service Task is positioned above UserTask1, connected by a sequence flow labeled 'SequenceFlow4'. The diagram is at 100% zoom.</p>

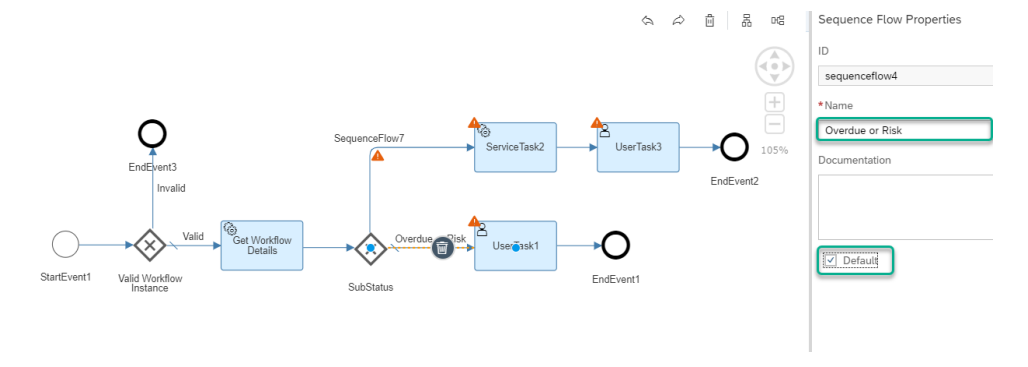
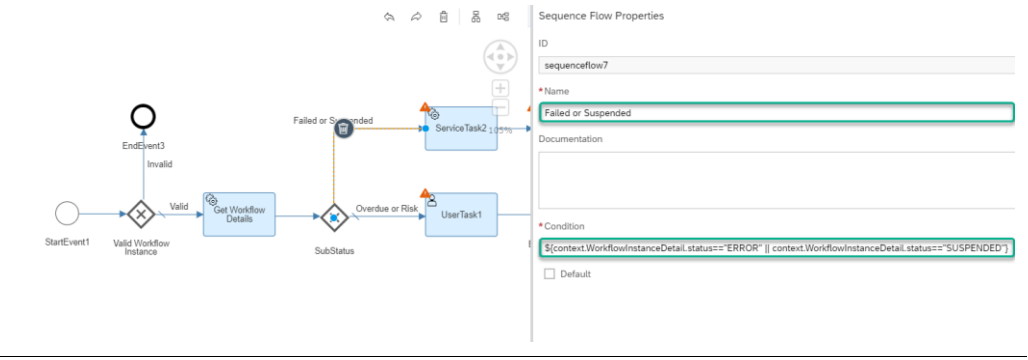
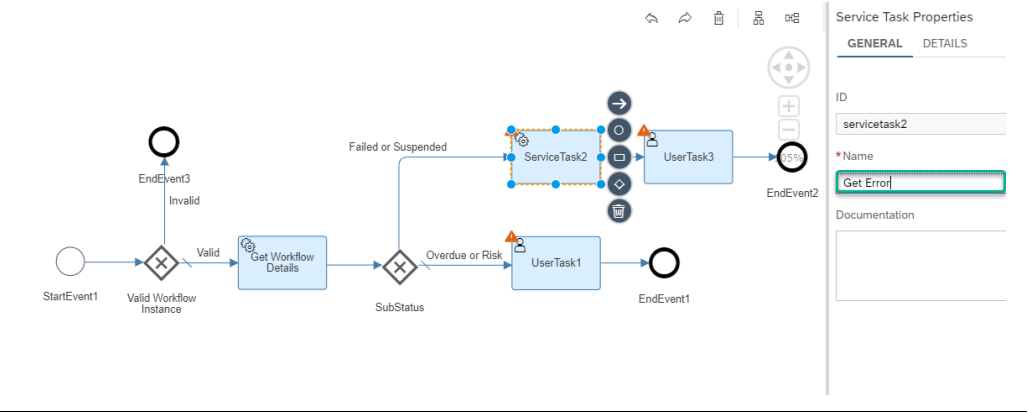
Explanation	Screenshot
16. Select ExclusiveGateway2 and choose Sequence Flow from the speed button.	<p>The screenshot shows a BPMN diagram with the following elements: StartEvent1, ExclusiveGateway y1, ServiceTask1, ExclusiveGateway y2, SequenceFlow4, UserTask1, and EndEvent1. A new element, ServiceTask2, is being added to the diagram. A speed button is open, showing various BPMN symbols. The 'Sequence Flow' symbol is highlighted, indicating it is the selected element to be added to the diagram.</p>
17. Select ServiceTask2 and choose User Task from the speed button.	<p>The screenshot shows the same BPMN diagram as in the previous step. A speed button is open, showing various BPMN symbols. The 'User Task' symbol is highlighted, indicating it is the selected element to be 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 the previous steps. A speed button is open, showing various BPMN symbols. The 'End Event' symbol is highlighted, indicating it is the selected element to be 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	

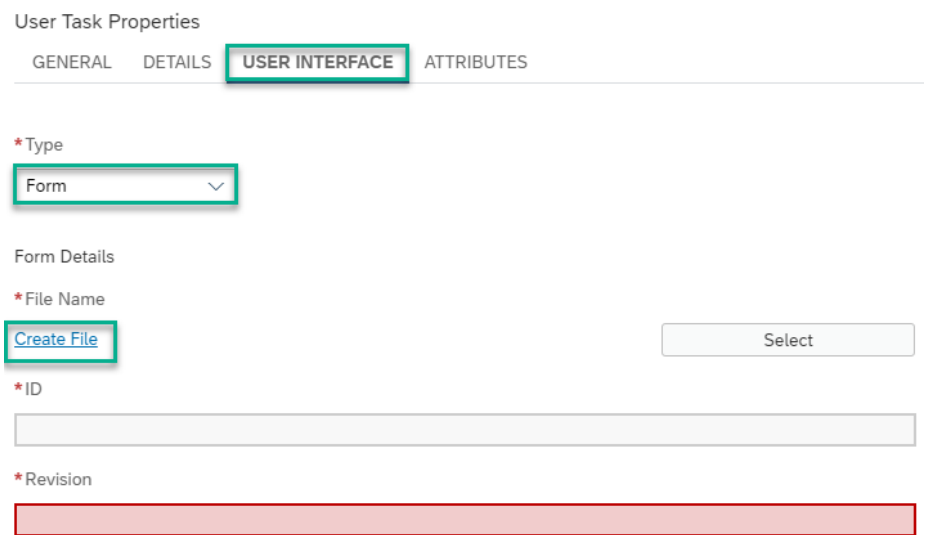
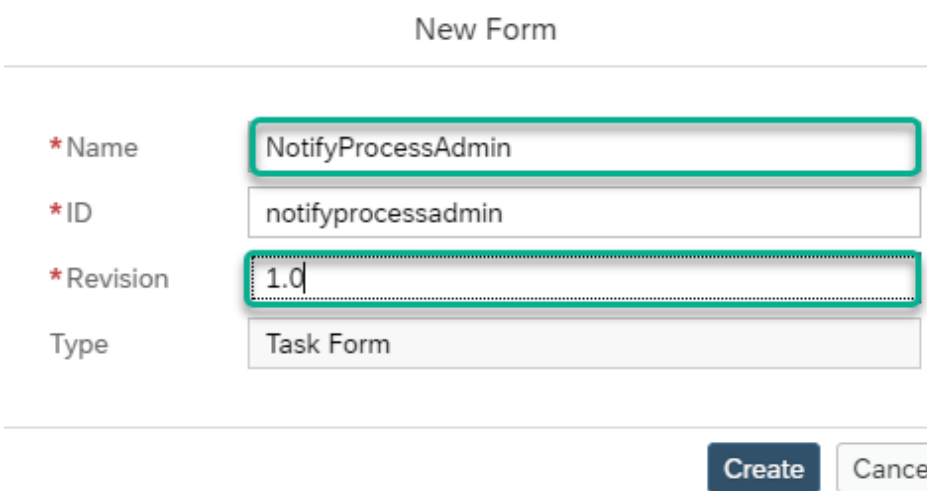
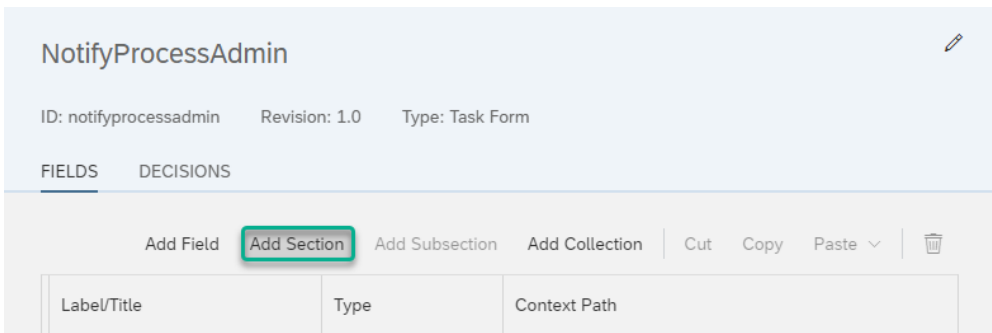
Explanation	Screenshot
<p>22. Select Sequence Flow between Exclusive Gateway and ServiceTask1.</p> <p>23. Update Name as Valid.</p> <p>24. Check the Default check box.</p>	
<p>25. Select Sequence Flow between Exclusive Gateway (Valid Workflow Instance) and End Event3.</p> <p>26. Update the Name as Invalid</p> <p>27. Set the Condition as</p> <pre><code>\${context.CostCenterOwnerApprovalID == null context.CostCenterOwnerApprovalID == "" }</code></pre>	
<p>28. Select Service Task ServiceTask1.</p> <p>29. Under GENERAL tab update Name. Name: Get Workflow Details</p>	

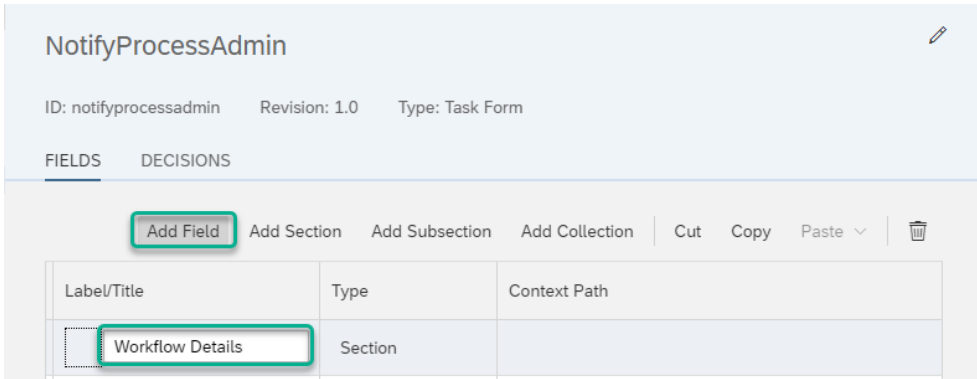
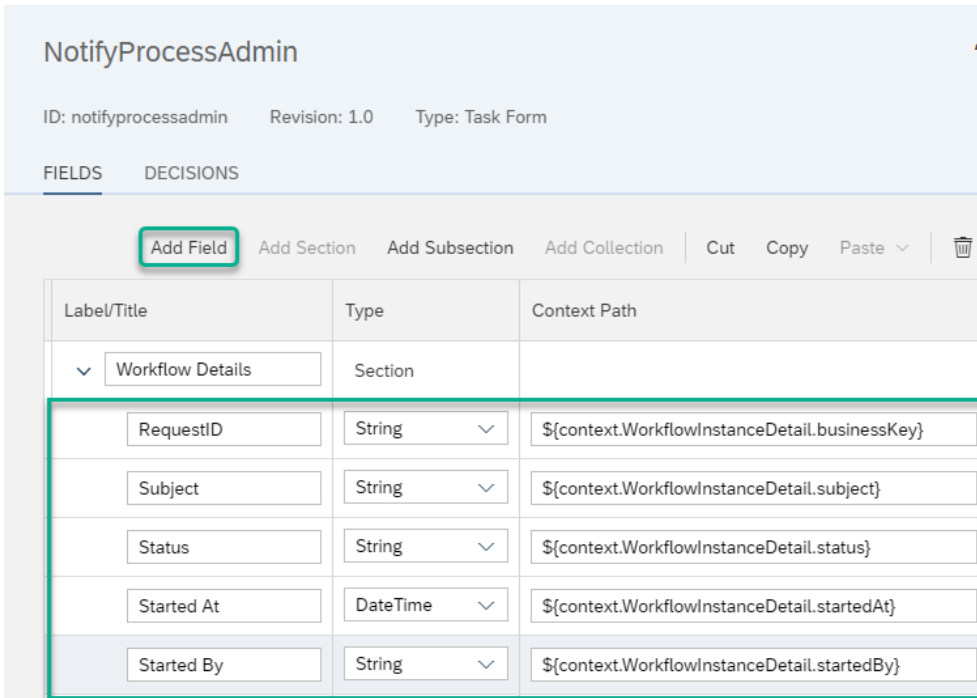
Explanation	Screenshot
<p>30. Select DETAILS tab.</p> <p>31. Set the following Service Task Properties.</p> <p>Destination: WorkflowOAuth2ClientCredentials</p> <p>Path: /v1/workflow-instances/\${context.CostCenterOwnerApprovalID}</p> <p>HTTP Method: GET</p> <p>Response Variable: \${context.WorkflowInstanceDetail}</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}</p> <p>* HTTP Method</p> <p>GET</p> <p>Response Variable</p> <p>\${context.WorkflowInstanceDetail}</p> <p><input type="checkbox"/> Principal Propagation</p>
<p>32. Select ExclusiveGateway2 and update name.</p> <p>Name: Sub Status</p>	

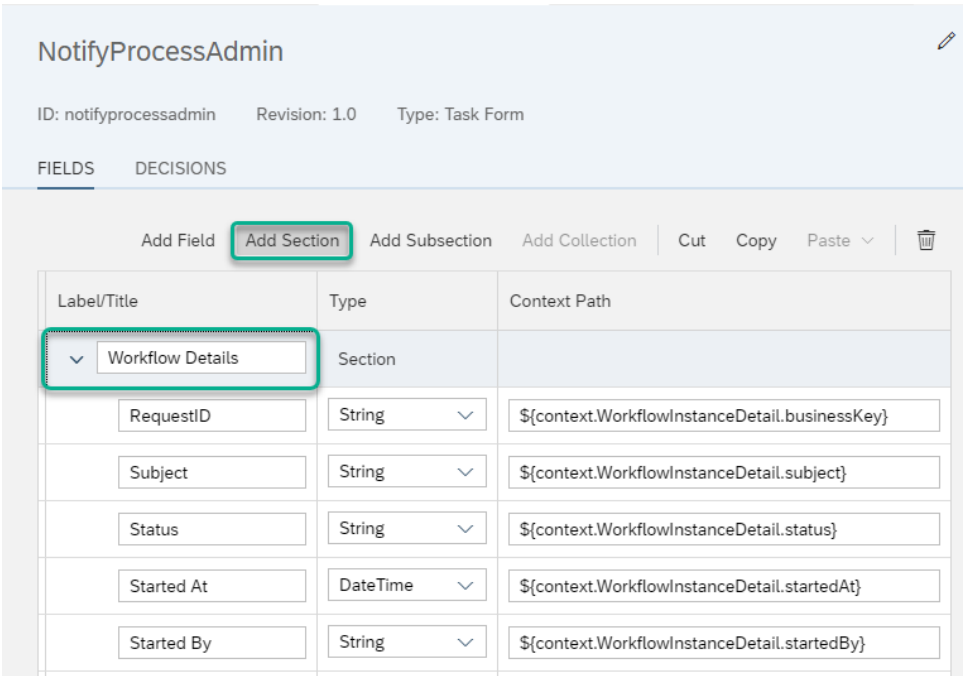
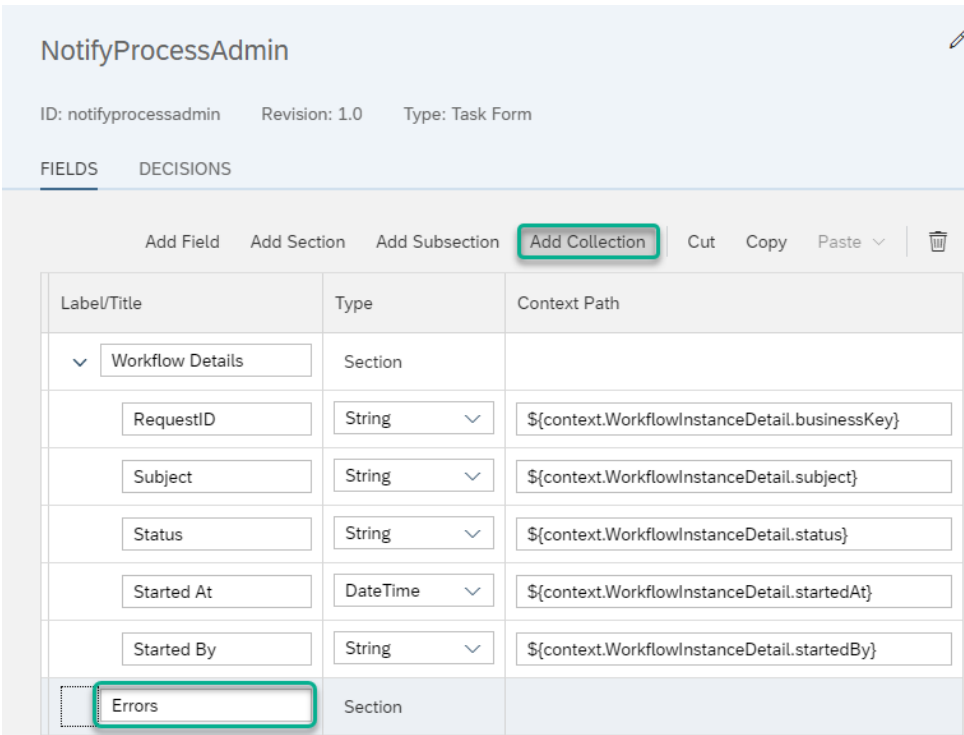
Explanation	Screenshot
<p>33. Select Sequence Flow between Exclusive Gateway (Sub Status) and UserTask1 and update Name.</p> <p>Name: Overdue or Risk</p>	
<p>34. Check the Default check box.</p>	
<p>35. Select Sequence Flow between Exclusive Gateway (Sub Status) and ServiceTask2.</p> <p>Name: Failed or Suspended Condition: \${context.WorkflowInstanceDetail.status=="ERROR" context.WorkflowInstanceDetail.status=="SUSPENDED"}</p>	
<p>36. Select ServiceTask2 and update Name.</p> <p>Name: Get Error</p>	

Explanation	Screenshot
<p>37. Select DETAILS tab.</p> <p>38. 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>39. Select UserTask2 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>

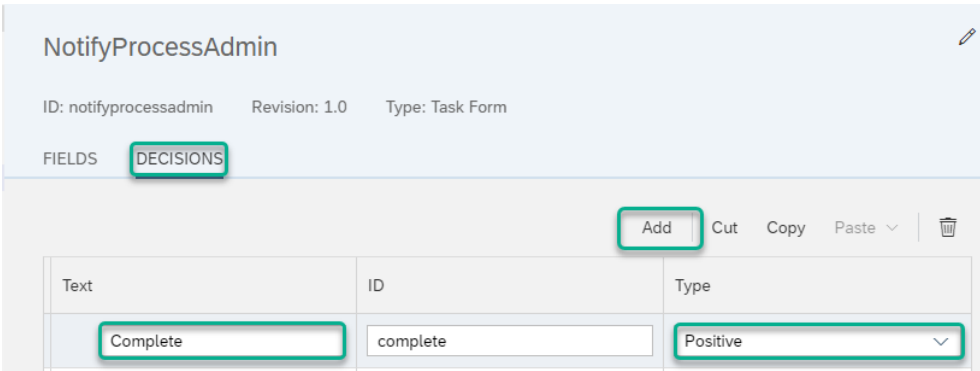
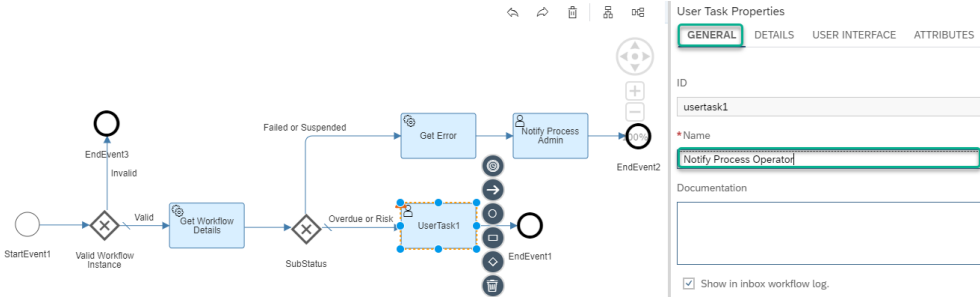
Explanation	Screenshot
<p>40. Select DETAILS tab and set the following User Task properties.</p> <p>Priority: High</p> <p>Subject: Workflow Instance \${context.CostCenterOwnerApprovalID} failed or suspended</p> <p>Users: your cloud platform trial user id (email id)</p>	<p>User Task Properties</p> <p>GENERAL DETAILS USER INTERFACE ATTRIBUTES</p> <p>* Priority</p> <p>High</p> <p>Display Texts</p> <p>* Subject</p> <p>Workflow Instance \${context.CostCenterOwnerApprovalID} 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>

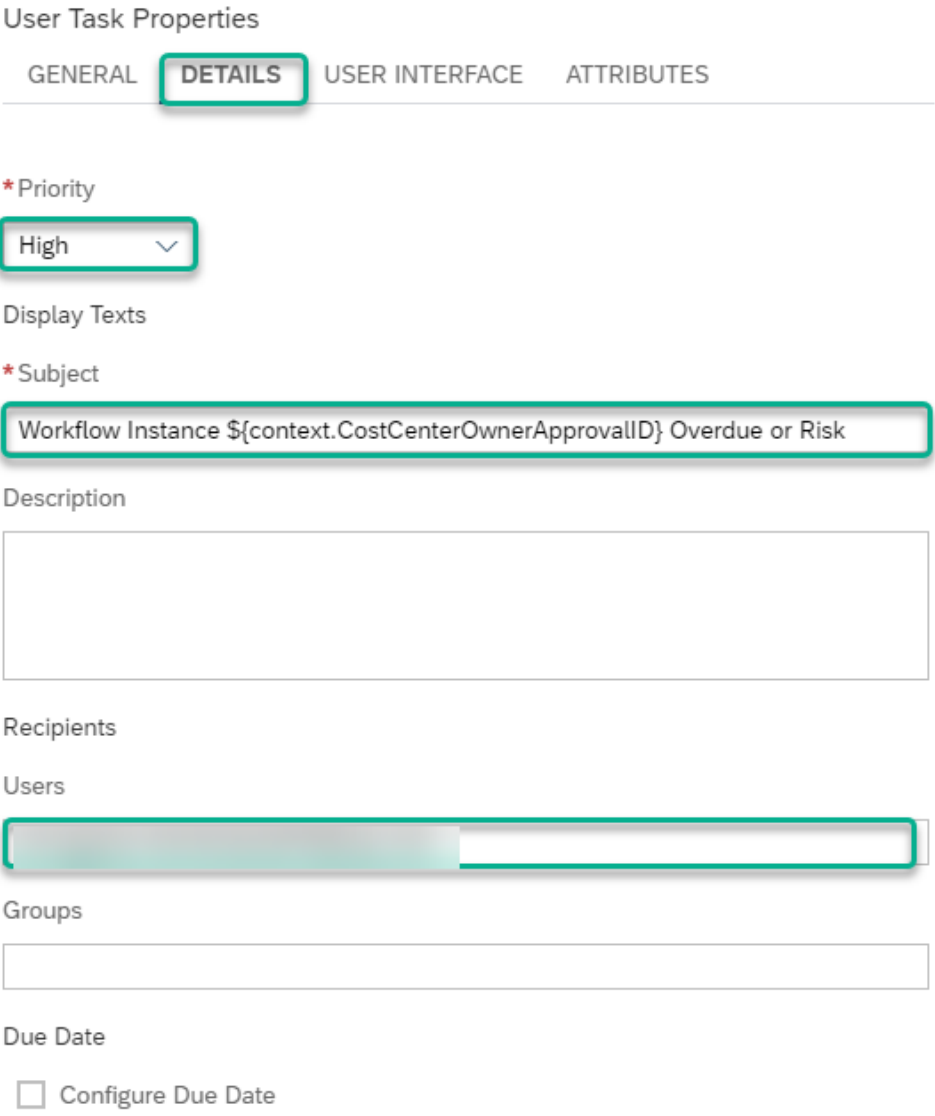
Explanation	Screenshot						
<p>41. Select USER INTERFACE section.</p> <p>42. Change the type as Form.</p> <p>43. Click the link Create File.</p> <p>44. A popup window is available now to enter the Form details.</p>	 <p>User Task Properties</p> <p>GENERAL DETAILS USER INTERFACE ATTRIBUTES</p> <p>*Type Form</p> <p>Form Details</p> <p>* File Name Create File Select</p> <p>*ID</p> <p>* Revision</p>						
<p>45. Set the following.</p> <p>Name: NotifyProcessAdmin Revision: 1.0</p> <p>46. 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>47. 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><tr><th>Label/Title</th><th>Type</th><th>Context Path</th></tr><tr><td></td><td></td><td></td></tr></table>	Label/Title	Type	Context Path			
Label/Title	Type	Context Path					

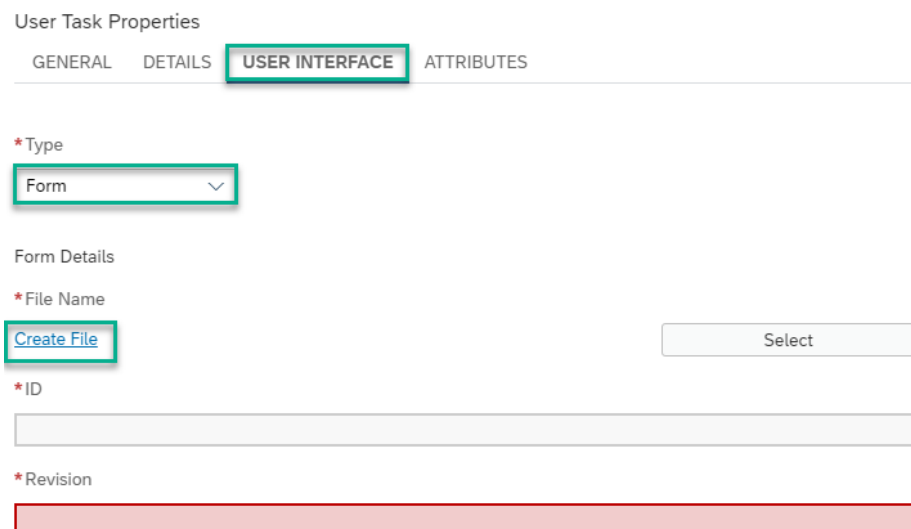
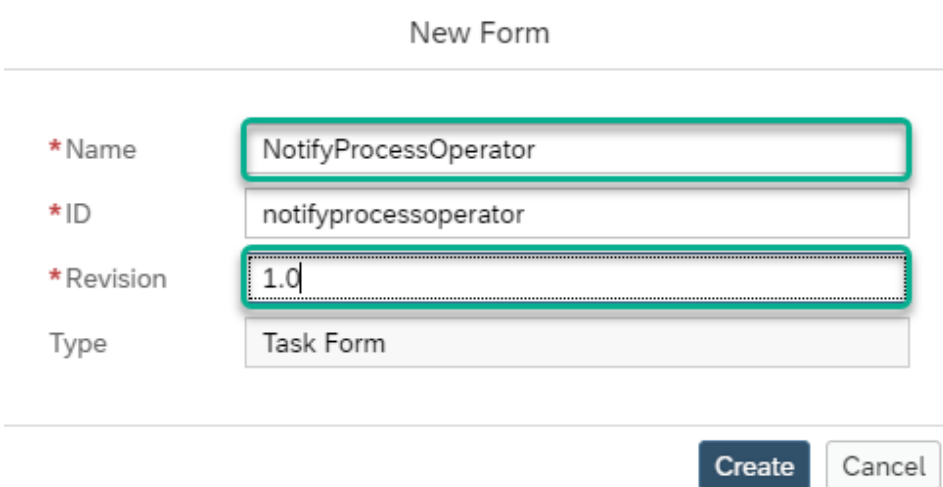
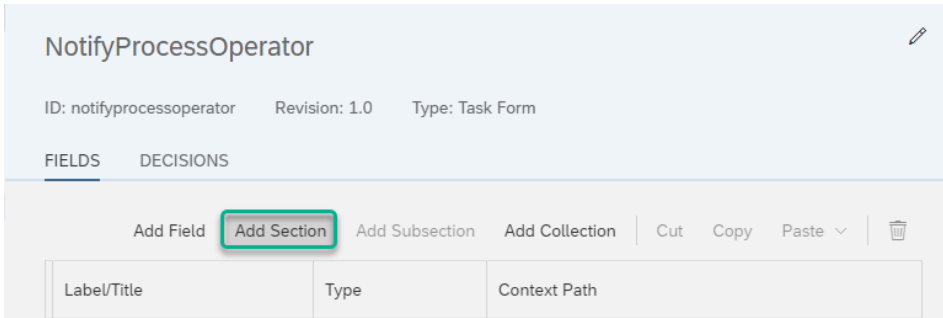
Explanation	Screenshot																		
<div>48. Update the Label/Title of the new Section as Workflow Details.</div> <div>49. Click Add Field.</div>																			
<div>50. Add five fields and update the Label/Title, Type and Context Path as given below.</div> <div>Please copy the Context Path 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}																	

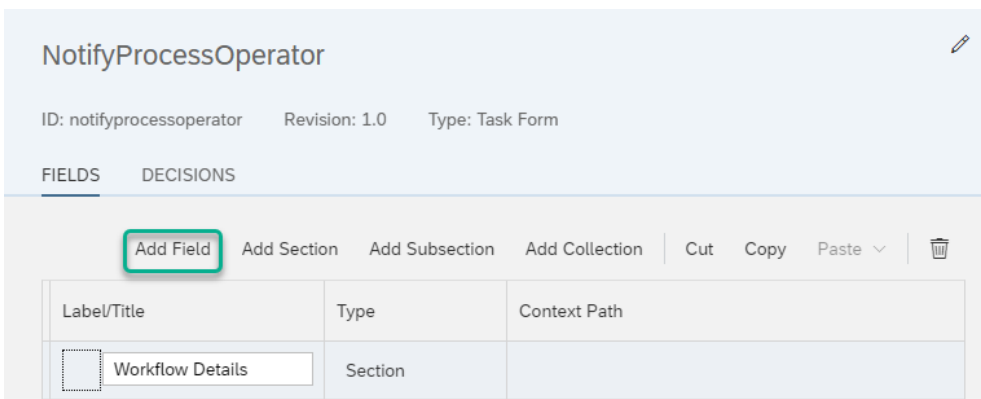
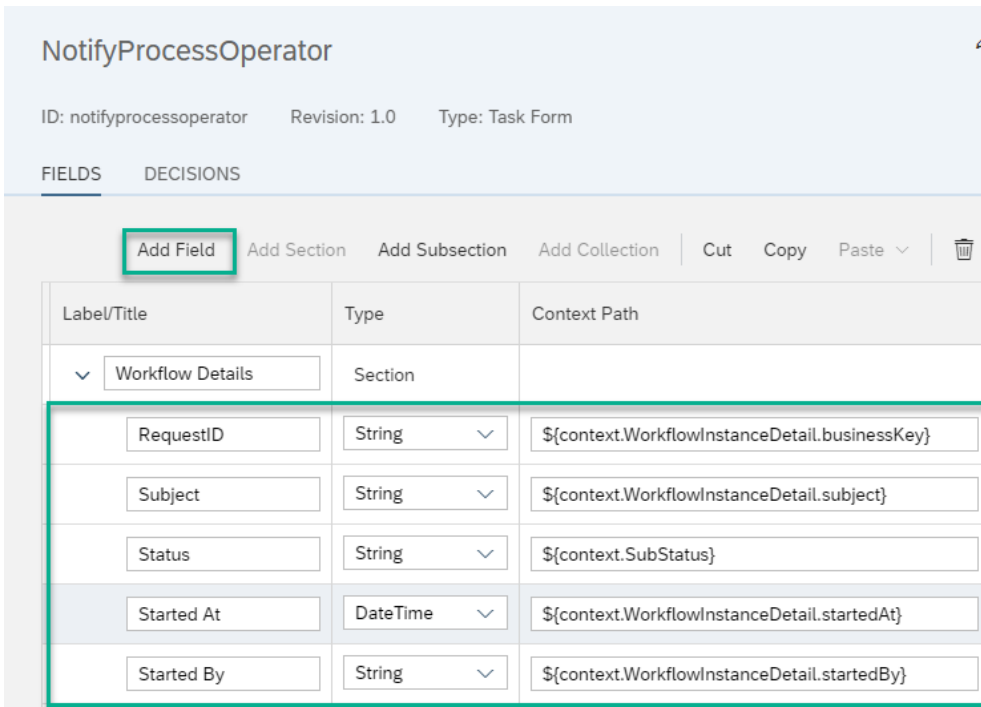
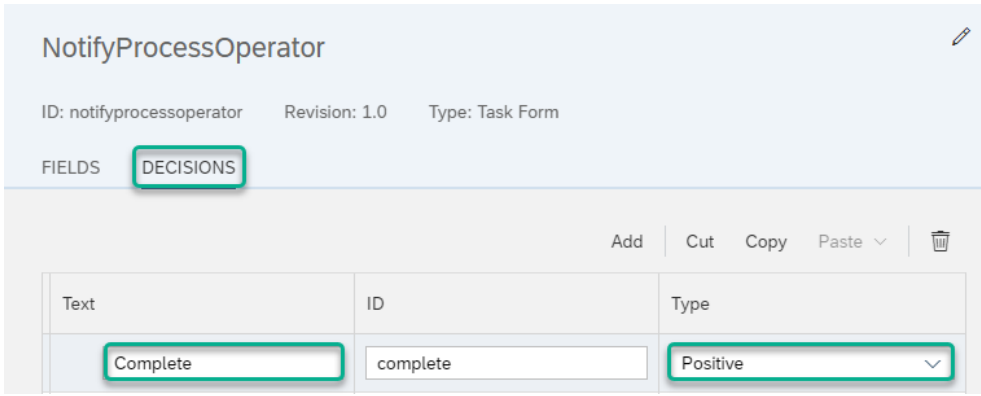
Explanation	Screenshot
51. Select section Workflow Details and Click Add Section .	 <p>The screenshot shows the 'NotifyProcessAdmin' form editor. At the top, it displays 'ID: notifyprocessadmin', 'Revision: 1.0', and 'Type: Task Form'. Below this are tabs for 'FIELDS' and 'DECISIONS'. A toolbar contains buttons for 'Add Field', 'Add Section' (highlighted with a red box), 'Add Subsection', 'Add Collection', 'Cut', 'Copy', 'Paste', and a trash icon. The main table has three columns: 'Label/Title', 'Type', and 'Context Path'. The 'Workflow Details' section is highlighted with a red box. Below it, several fields are listed: 'RequestID' (String), 'Subject' (String), 'Status' (String), 'Started At' (DateTime), and 'Started By' (String), each with its corresponding context path.</p>
52. Update the Section Label/Title as Errors . 53. Click Add Collection .	 <p>The screenshot shows the 'NotifyProcessAdmin' form editor after the 'Errors' section has been added. The 'Add Collection' button in the toolbar is highlighted with a red box. The 'Errors' section is highlighted with a red box in the table. The table structure remains the same, with 'Label/Title', 'Type', and 'Context Path' columns. The 'Workflow Details' section is still present, and the fields below it are unchanged.</p>

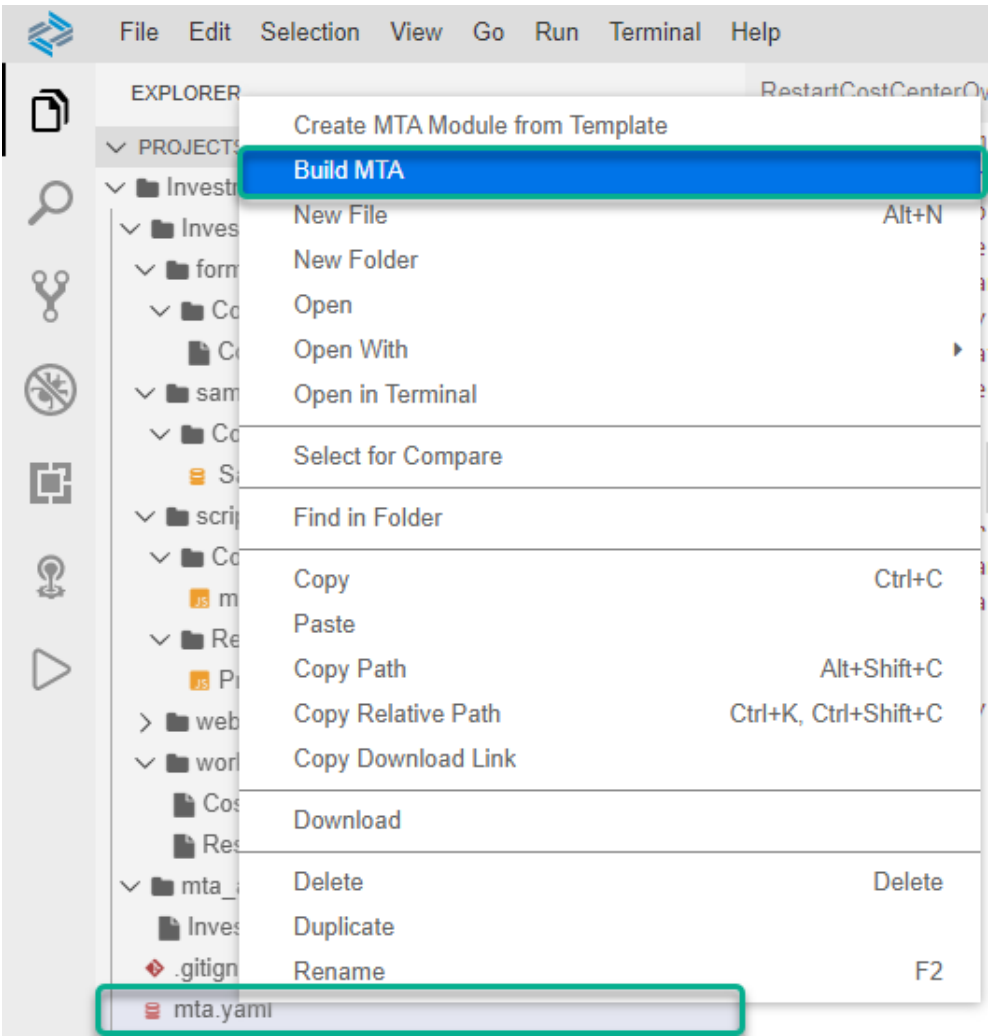
Explanation	Screenshot															
<div>54. Update the Label/Title of the Collection as Messages.</div> <div>55. Update the Context Path as <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code></div> <div>56. Click Add Field.</div>	<p>The screenshot shows the 'NotifyProcessAdmin' form editor. The 'Messages' collection is highlighted, and its context path is updated to <code>\${context.WorkflowInstanceDetail.ErrorMessage}</code>. The 'Add Field' button is also highlighted.</p>															
<div>57. Add four Fields under the Collection Messages.</div> <div>58. Update the Label/Title, Type and Context path of the new fields 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>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>Date Time</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	Date Time	<code>\${item.timestamp}</code>	Error Code	String	<code>\${item.errorCode}</code>	<p>The screenshot shows the 'NotifyProcessAdmin' form editor. The 'Messages' collection is highlighted, and it contains four new fields: 'Activity' (String), 'Message' (String), 'Timestamp' (Date Time), and 'Error Code' (String). The context path for each field is updated according to the table in the explanation.</p>
Label	Type	Context Path														
Activity	String	<code>\${item.activityName}</code>														
Message	String	<code>\${item.message}</code>														
Time Stamp	Date Time	<code>\${item.timestamp}</code>														
Error Code	String	<code>\${item.errorCode}</code>														

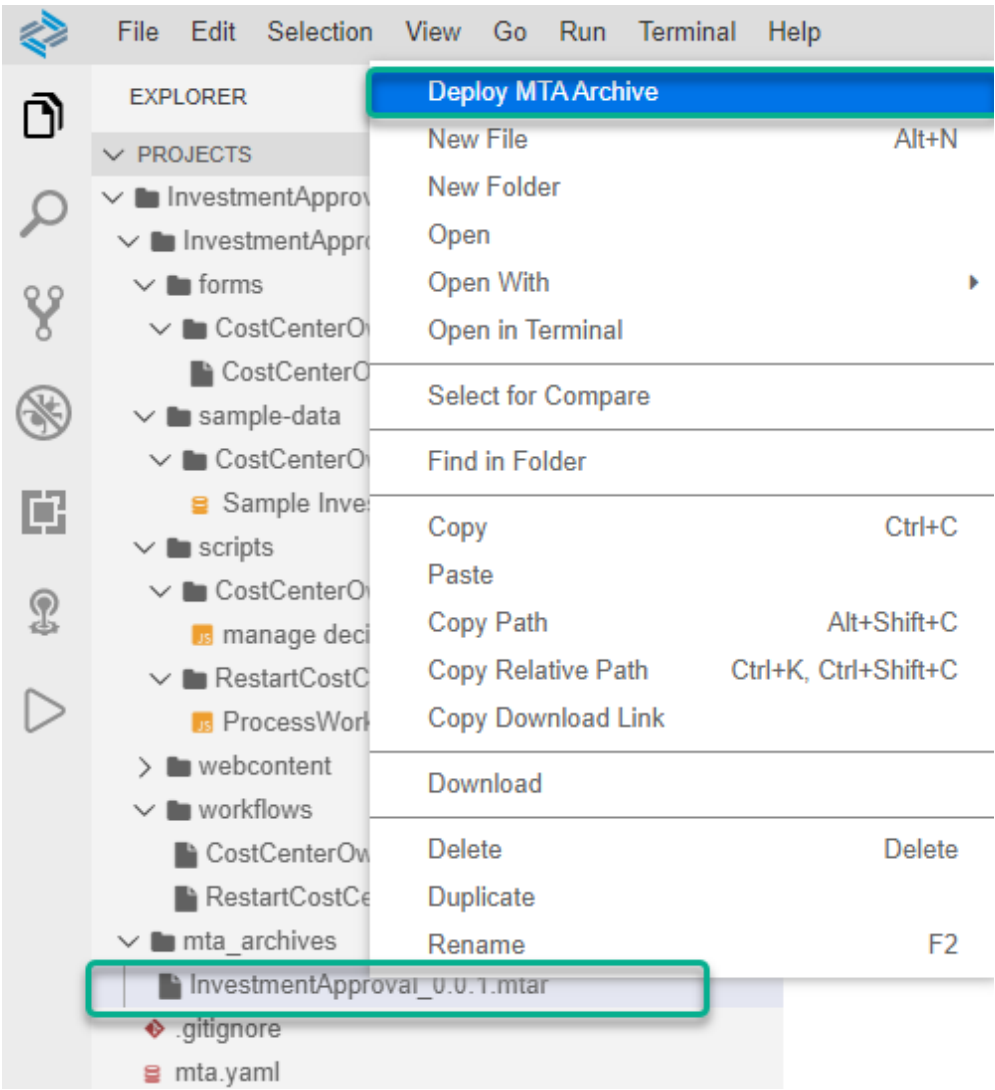
Explanation	Screenshot
<div>59. Click DECISIONS.</div> <div>60. Click Add to create a new decision.</div> <div>61. Update the Text and Type.</div> <div>Text: Complete Type: Positive</div>	
<div>62. Select UserTask1.</div> <div>63. Select GENERAL section of User Task Properties.</div> <div>64. Update Name as Notify Process Operator.</div>	

Explanation	Screenshot
<p>65. 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>66. 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 \${context.CostCenterOwnerApprovalID} Overdue or Risk</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>67. Select USER INTERFACE section.</p> <p>68. Change the type as Form.</p> <p>69. Click the link Create File.</p> <p>70. 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>71. Set the following.</p> <p>Name: NotifyProcessOperator Revision: 1.0</p> <p>72. 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>73. 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>74. Update the Label/Title of the new section as Workflow Details.</p> <p>75. Click Add Field.</p>																			
<p>76. 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>77. Click DECISIONS.</p> <p>78. Click Add to create a new decision.</p> <p>79. Update the Text and Type.</p> <p>Text: Complete Type: Positive</p>																			

Explanation	Screenshot
<p>80. Right click on <code>mta.yaml</code> file.</p> <p>81. Select Build MTA.</p> <p>82. This will start the MTA build and it may take a few seconds to create the mta archives under the folder <code>mta_archives</code>.</p>	 <p>The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure with folders like 'PROJECTS', 'Investment', 'form', 'Co', 'sam', 'Co', 'scrip', 'Co', 'Re', 'web', 'wor', 'Cos', 'Res', 'mta_', 'Inves', and '.gitign'. The file 'mta.yaml' is selected at the bottom of the list. A right-click context menu is open over 'mta.yaml', listing various actions. The 'Build MTA' option is highlighted in blue. Other options include 'Create MTA Module from Template', 'New File', 'New Folder', 'Open', 'Open With', 'Open in Terminal', 'Select for Compare', 'Find in Folder', 'Copy', 'Paste', 'Copy Path', 'Copy Relative Path', 'Copy Download Link', 'Download', 'Delete', 'Duplicate', and 'Rename'. The menu also shows keyboard shortcuts for several actions: Alt+N for New File, Ctrl+C for Copy, Alt+Shift+C for Copy Path, Ctrl+K, Ctrl+Shift+C for Copy Relative Path, Delete for Delete, and F2 for Rename.</p>

Explanation	Screenshot
<div>83. Successful build will update the .mtar file and show message in the build logs.</div> <div>84. Select the .mtar file and right click.</div> <div>85. Click Deploy MTA Archive.</div>	
<div>86. Successful deployment will show the log.</div>	<div><div>ProblemsTask: 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 dml -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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