

Ejercicio 9: Modelado de procesos 101, Parte 2

Create the Maintenance Custom Data Type

Create Data Type

- Create from scratch
- Duplicate existing data type
- Create from database table or view
- Import XSD

Data Source *

jdbc/Appian (Tomcat)

Table or View *

aamaintenance

CANCEL

CONTINUE

Create Data Type

Namespace *

urn:com:appian:types:AX

Formatted as a URI, for example 'urn:com:appian:types:COB' for a client onboarding application

Name *

AX_Maintenance

Description

Base data structure for a single Maintenance record

Column Name	Field Name	Column Type	Field Type	Key	Nulls	Unique			
MaintenanceRequestID	maintenanceReques	INT	Number (Integer)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	↑	↓	×
VehicleID	vehicleid	INT	Number (Integer)		<input type="checkbox"/>	<input type="checkbox"/>	↑	↓	×
MaintenanceRequestDate	maintenanceReques	DATE	Date		<input type="checkbox"/>	<input type="checkbox"/>	↑	↓	×
MaintenanceScheduled	maintenanceSchedu	BIT	Boolean		<input type="checkbox"/>	<input type="checkbox"/>	↑	↓	×

GO BACK

CANCEL

CREATE

AX_Mantenimiento GUARDAR CAMBIOS appia

Obtenga más información sobre el diseño de datos

Campos (19)

Nombre	Escribe	Longitud	Formación	Llave			
maintenanceRequestId	Número (Entero)			<input checked="" type="checkbox"/>		↑	↓
vehicleId	Número (Entero)			<input type="checkbox"/>		↑	↓
maintenanceRequestDate	Fecha			<input type="checkbox"/>		↑	↓
maintenanceScheduled	booleano			<input type="checkbox"/>		↑	↓
maintenanceIssue	Texto	255		<input type="checkbox"/>		↑	↓
maintenanceStatus	Texto	55		<input type="checkbox"/>		↑	↓
maintenanceStartDate	Fecha			<input type="checkbox"/>		↑	↓
maintenanceEstimatedCompleteDate	Fecha			<input type="checkbox"/>		↑	↓
maintenanceActualCompleteDate	Fecha			<input type="checkbox"/>		↑	↓
maintenanceDuration	Número (Entero)			<input type="checkbox"/>		↑	↓
maintenanceCost	Número (Entero)			<input type="checkbox"/>		↑	↓
maintenanceRequester	Texto	255		<input type="checkbox"/>		↑	↓

Create the Request Maintenance Form

Create Interface

Create from scratch Duplicate existing interface

Name *

AX_RequestMaintenance

Description

interfaz de Solicitud de mantenimiento.

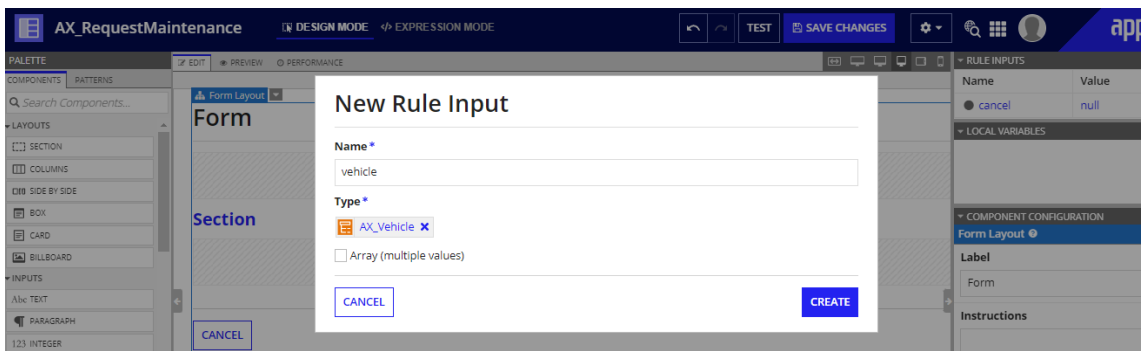
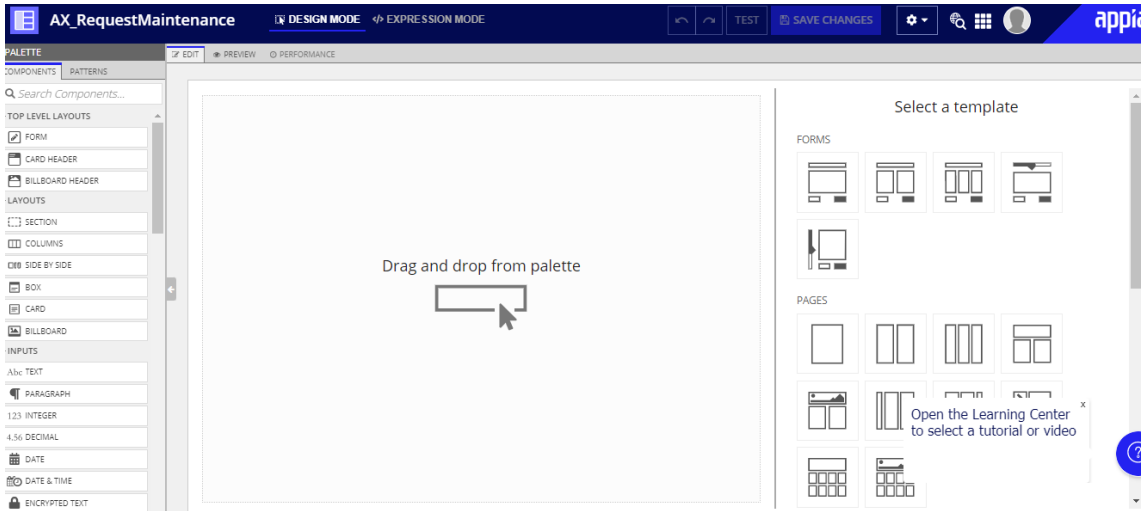
Save In *

AX Interfaces

[Create New Rule Folder](#)

CANCEL

CREATE



New Rule Input

Name *

Type *

 AX_Maintenance

 Array (multiple values)

Form

Vehicle Details

Integer	Year
	Make
	Model
	VIN
	Mileage

Section

Drop component here

Name	Value
cancel	null
vehicle	null
maintenance	null

LOCAL VARIABLES

COMPONENT CONFIGURATION

Contents

Integer

Display Value

Save Input To

Form

Vehicle Details

Year

Make

Model

VIN

Mileage

Section

Drop component here

- cancel null
- vehicle null
- maintenance null

LOCAL VARIABLES

COMPONENT CONFIGURATION

Contents

Text

Display Value

rivehicle.vehiclemake

Save Input To

rivehicle.vehiclemake

Form

Vehicle Details

Year

Make

Model

VIN

Mileage

Section

Drop component here

- cancel null
- vehicle null
- maintenance null

LOCAL VARIABLES

COMPONENT CONFIGURATION

Contents

Text

Display Value

rivehicle.vehiclemodel

Save Input To

rivehicle.vehiclemodel

Form

Vehicle Details

Year

Make

Model

VIN

Mileage

Section

Drop component here

- cancel null
- vehicle null
- maintenance null

LOCAL VARIABLES

COMPONENT CONFIGURATION

Contents

Text

Display Value

rivehicle.vehiclevin

Save Input To

rivehicle.vehiclevin

Form

Vehicle Details

Year

Make

Model

VIN

Mileage

Section

Drop component here

- cancel null
- vehicle null
- maintenance null

LOCAL VARIABLES

COMPONENT CONFIGURATION

Contents

Integer

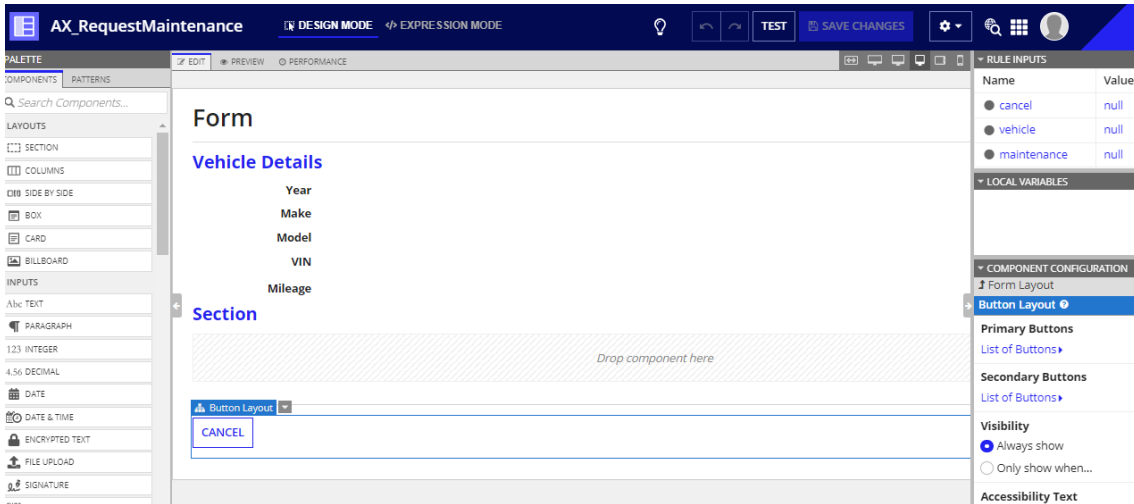
Display Value

rivehicle.vehiclemileage

Save Input To

rivehicle.vehiclemileage

CANCEL



Form

Vehicle Details

Year
Make
Model
VIN
Mileage

Maintenance Details

Request Date
mm/dd/yyyy

CANCEL

Name	Value
cancel	null
vehicle	null
maintenance	null

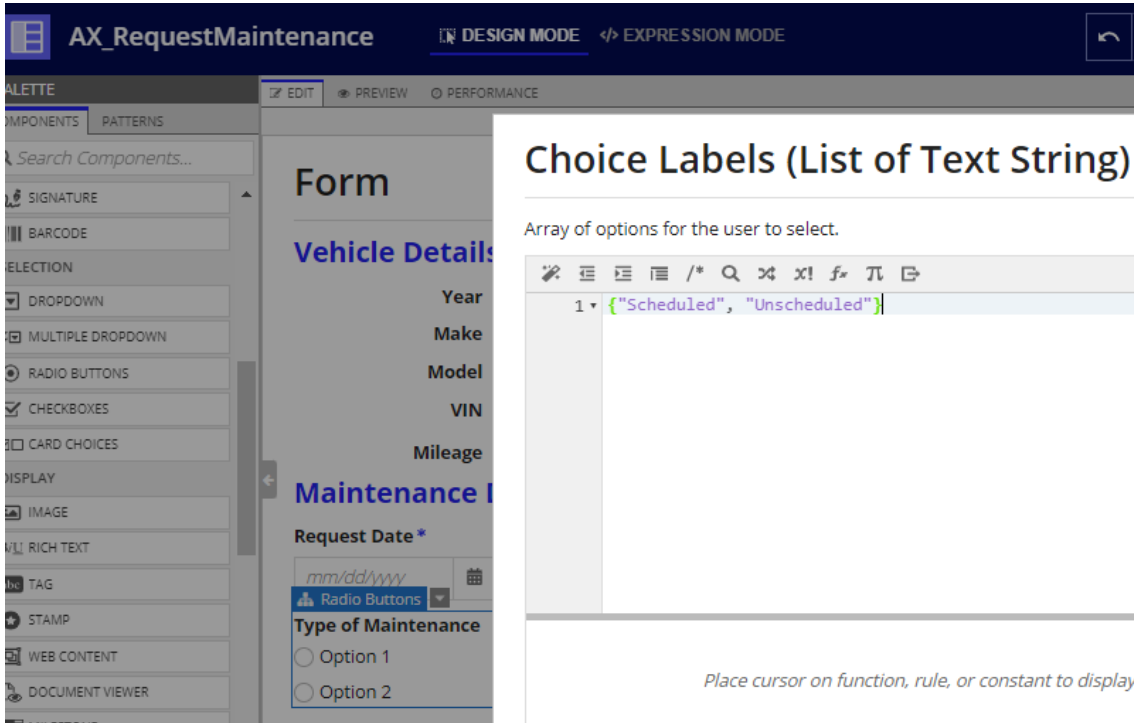
COMPONENT CONFIGURATION

Contents

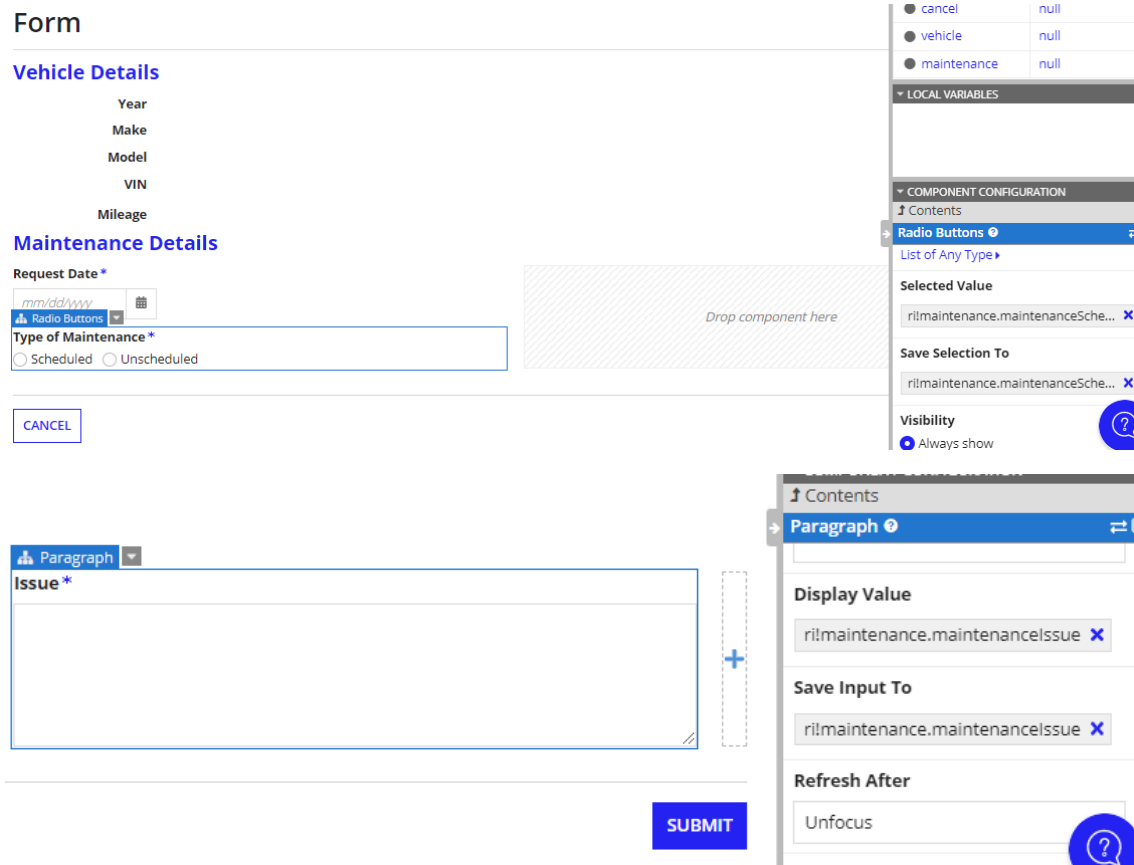
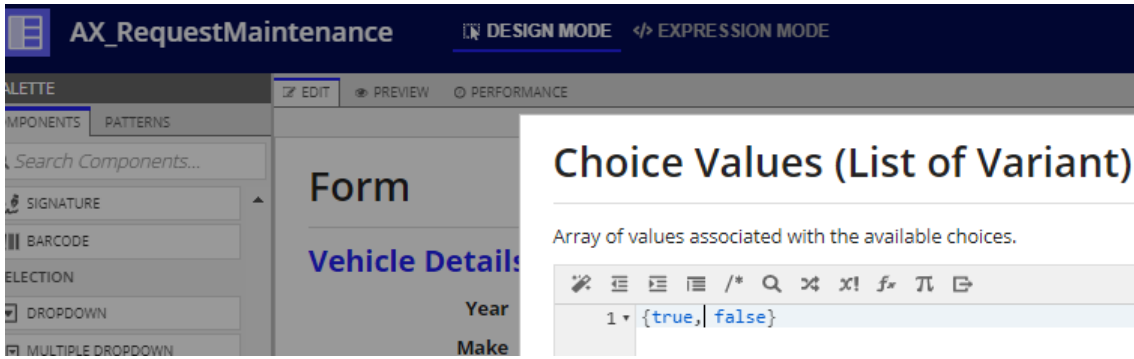
Date

Display Value: r!maintenance.maintenanceReq...

Save Input To: r!maintenance.maintenanceReq...



Place cursor on function, rule, or constant to display

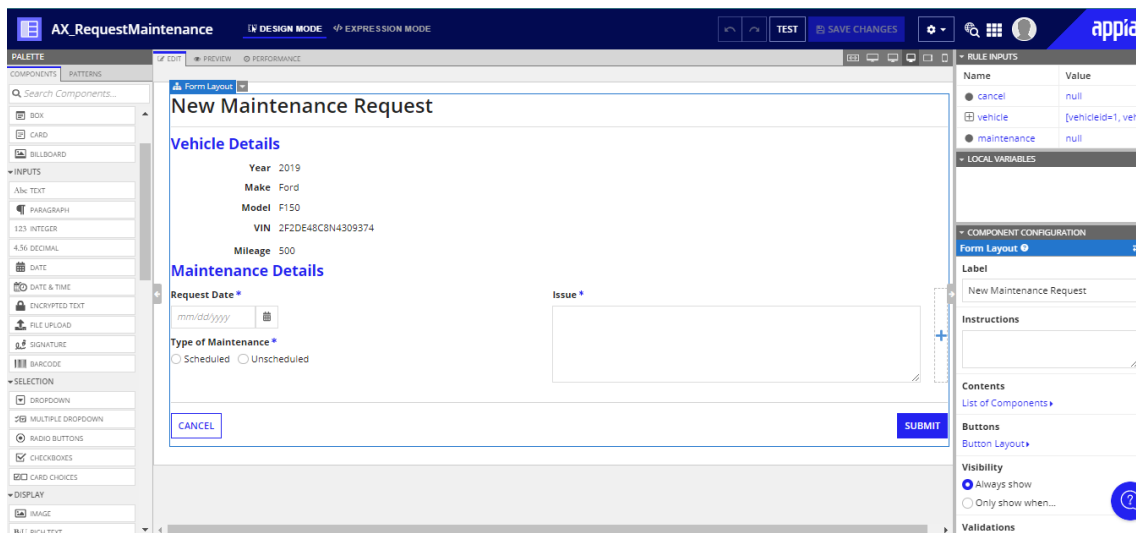


Test Inputs

Enter initial input values to test interface

Rule Input Name	Expression	Value
cancel (Boolean)	1	<input type="radio"/> True <input type="radio"/> False
vehicle (AX_Vehicle)	1 rule!AX_GetVehicleByID(1)	AX_Vehicle vehicleid: 1 vehiclemake: "Ford" vehiclemodel: "F150" vehiclecolor: "Red" vehicleconditio... More
maintenance (AX_Maintenance)	1	null (AX_Maintenance)

[Set as default test values](#)



Create the Approve Maintenance Form

Create Interface

Create from scratch Duplicate existing interface

Interface to Duplicate*

X

Name *

Description

Save In *

X

[Create New Rule Folder](#)

Edit Rule Input

Name*

approvalDecision

Type*

Boolean ✕

Array (multiple values)

CANCEL DELETE

OK

New Maintenance Request

Vehicle Details

Year 2019
Make Ford
Model F150
VIN 2F2DE48C8N4309374
Mileage 500

Maintenance Details

Request Date	Issue
Type of Maintenance	Unscheduled

DENY APPROVE

Create the Request Maintenance Process Model (Crear el modelo de proceso de mantenimiento de solicitudes)

Create the Process Model

Create Process Model

Create from scratch Duplicate existing process model


Name *

AX Request Maintenance

Description

Modelo de proceso para solicitud de mantenimiento de un vehículo de la flota

Save In *

 AX Process Models ✕




[Create New Process Model Folder](#)

CANCEL


CREATE



Review Process Model Security



Tip: Process models do not inherit security from their parent folders. To start a process model, basic users must have at least initiator rights. [Learn more](#) 

Name

 AX Request Maintenance

User or Group	Permission Level	
Default (All Other Users)	No Access	
 AX Administrators ✕	Administrator ▼	✕
 AX All Users ✕	Viewer ▼	✕
+ Add Users or Groups		

SAVE

Process Model Properties » AX Request Maintenance



General Variables **Process Start Form** Deadlines Alerts Data Management

English (US) Spanish (MX) French (CA) English (GB) Chinese (CN) Chinese (HK) Dutch
 French (FR) German Italian Japanese Polish Portuguese Russian Spanish
 Swedish Arabic Greek Korean

Enable this language

Interface
 "AX_RequestMaintenance" Clear
[EDIT INTERFACE](#)

Specify the data to pass between the process and interface Refresh

Rule Input	Type	Multiple?	Value
cancel	Boolean	No	cancel
vehicle	AX_Vehicle	No	vehicle
maintenance	AX_Maintenance	No	maintenance

CANCEL

OK

New Process Variable



Name

Type

Value True
 False

Parameter Allow the value for the variable to be provided when starting a process

Required Value is required in order to start a process

Multiple Variable can store multiple values

Hidden Variable is hidden from parent processes, reports and process history

CANCEL

OK

Process Model Properties » AX Request Maintenance



General **Variables** Process Start Form Deadlines Alerts Data Management

Process Variables

+ Add Variable

Name	Type	Value	Parameter?	Required?	Multiple?	Hidden?	
approvalDecision	Boolean	(No Value)	No	N/A	No	No	✗
cancel	Boolean	(No Value)	Yes	No	No	No	✗
maintenance	AX_Maintenance	(No Value)	Yes	No	No	No	✗
vehicle	AX_Vehicle	(No Value)	Yes	No	No	No	✗

The screenshot shows the Appian Process Model interface with the 'Maintenance' activity selected. The 'Expression Editor' is open, displaying the following expressions:

```

1 "Request Maintenance: " & pv!vehicle.vehicleYear & " " &
2 pv!vehicle.vehicleMake & " " & pv!vehicle.vehicleModel
    
```

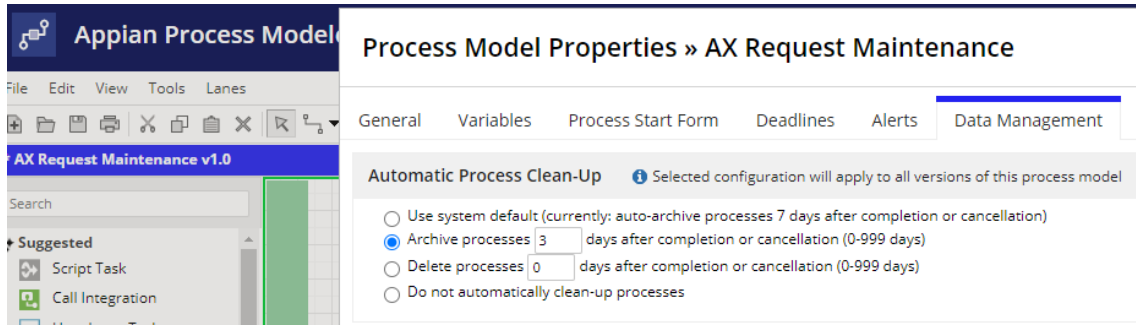
Buttons for 'CANCEL', 'SAVE AND CLOSE', and 'OK' are visible at the bottom of the editor.

Process Model Properties » AX Request Maintenance

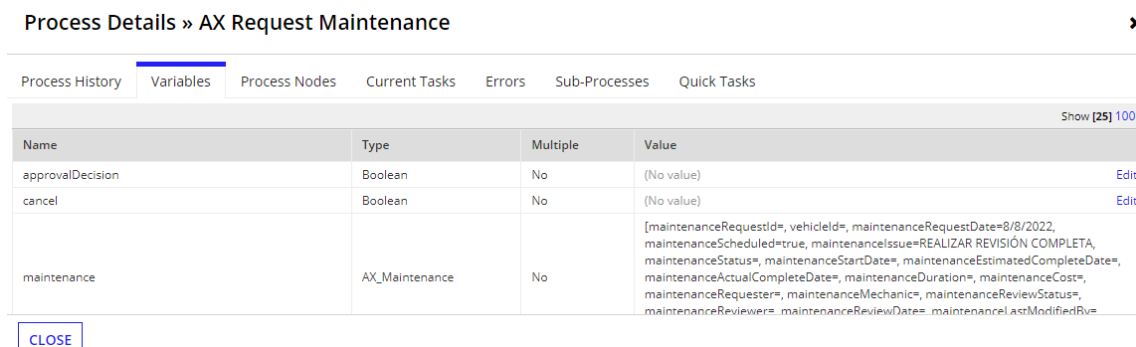
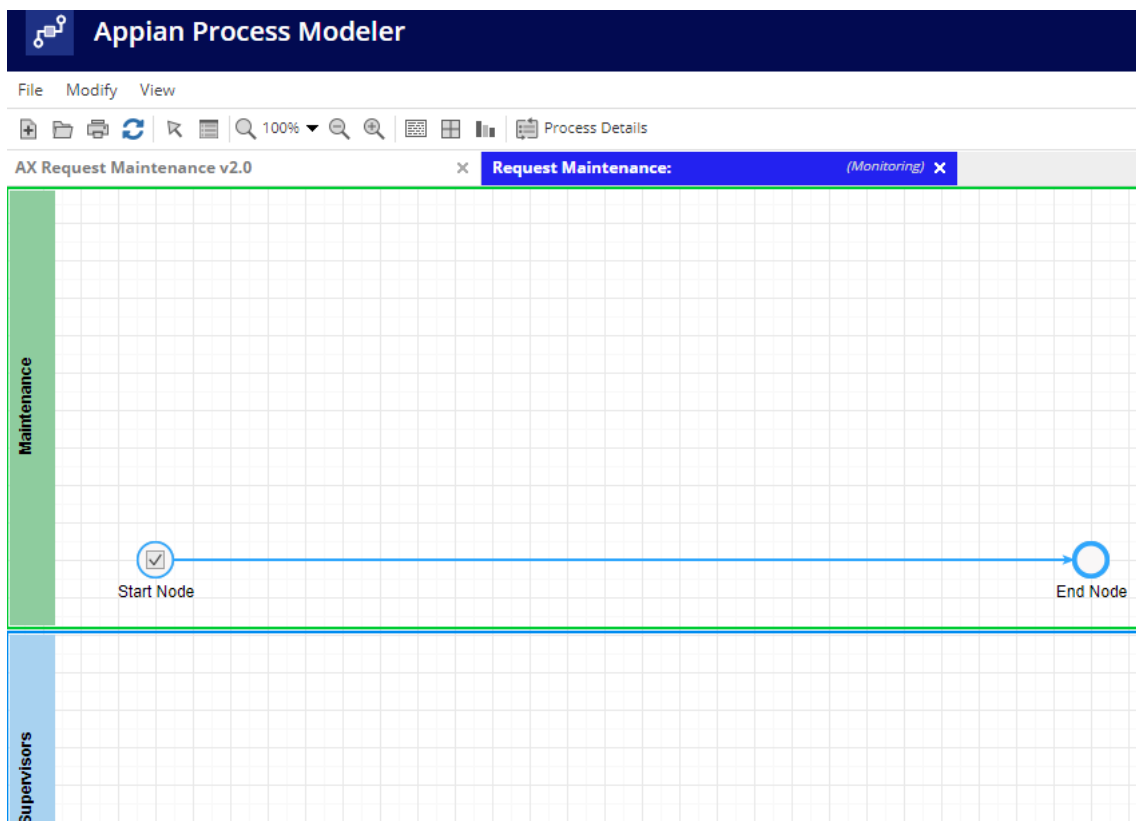
General Variables Process Start Form Deadlines **Alerts** Data Management

Alert Recipients Who will be notified of errors in this process?

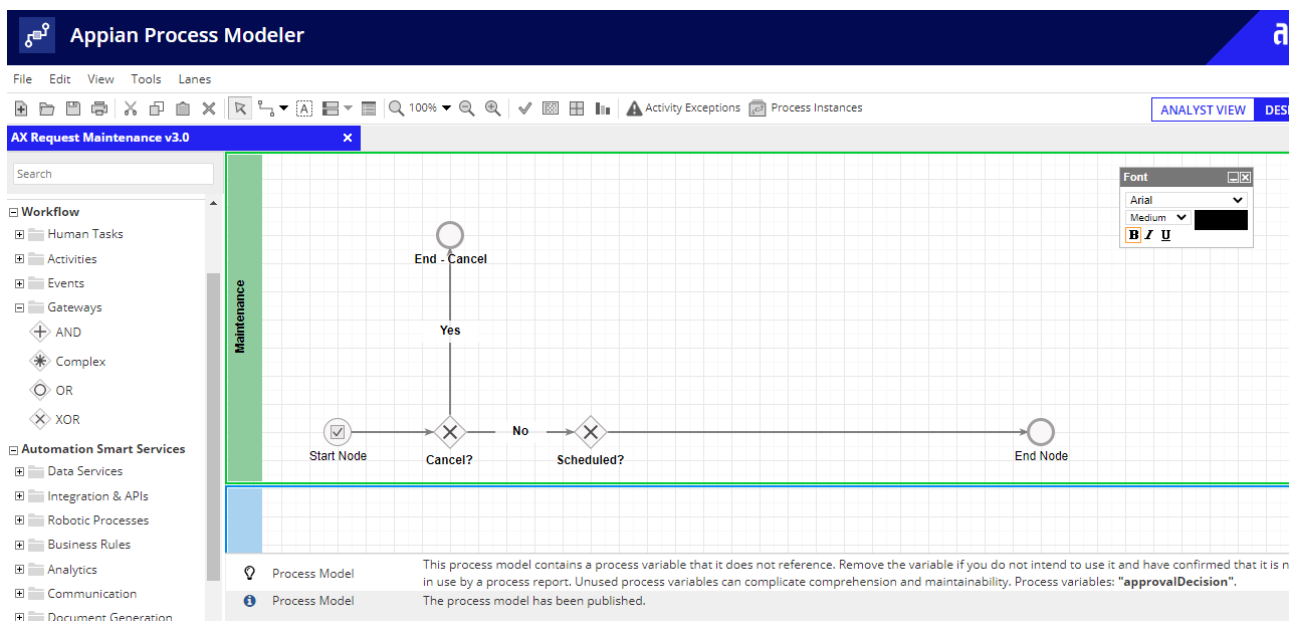
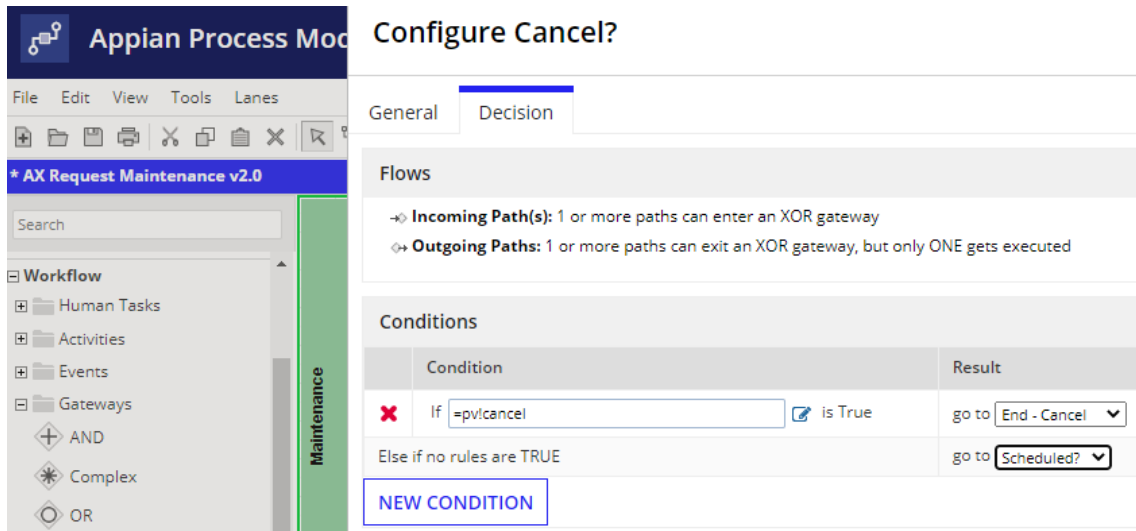
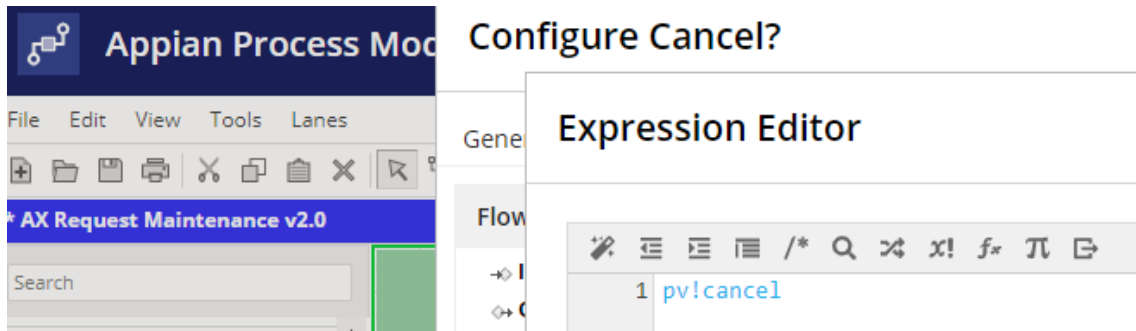
- Use system defaults for error alerts.
- Use custom error alert settings.
 - Send alerts to the process initiator.
 - Send alerts to the process model owner.
 - Send alerts to the recipients defined by this expression:
 - Send alerts to the following users & groups:



test the process:



Configure the Cancel XOR Gateway



Configure the Scheduled XOR Gateway

Configure Scheduled?

Expression Editor
✕

✂ ☰ ☰ ☰ /* Q ↻ ✖ f* π ↳

1 pv!maintenance.maintenanceScheduled

Place cursor on function, rule, or constant to display help

CANCEL
SAVE AND CLOSE

CANCEL

OK

Configure Scheduled?

General
Decision
✕

Flows

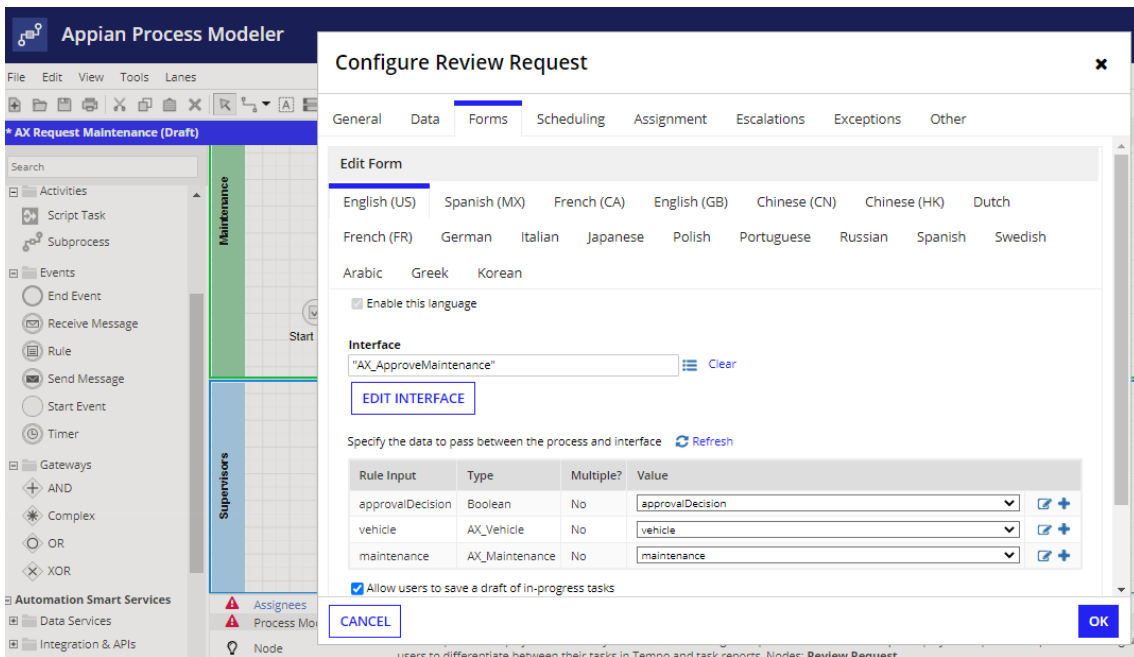
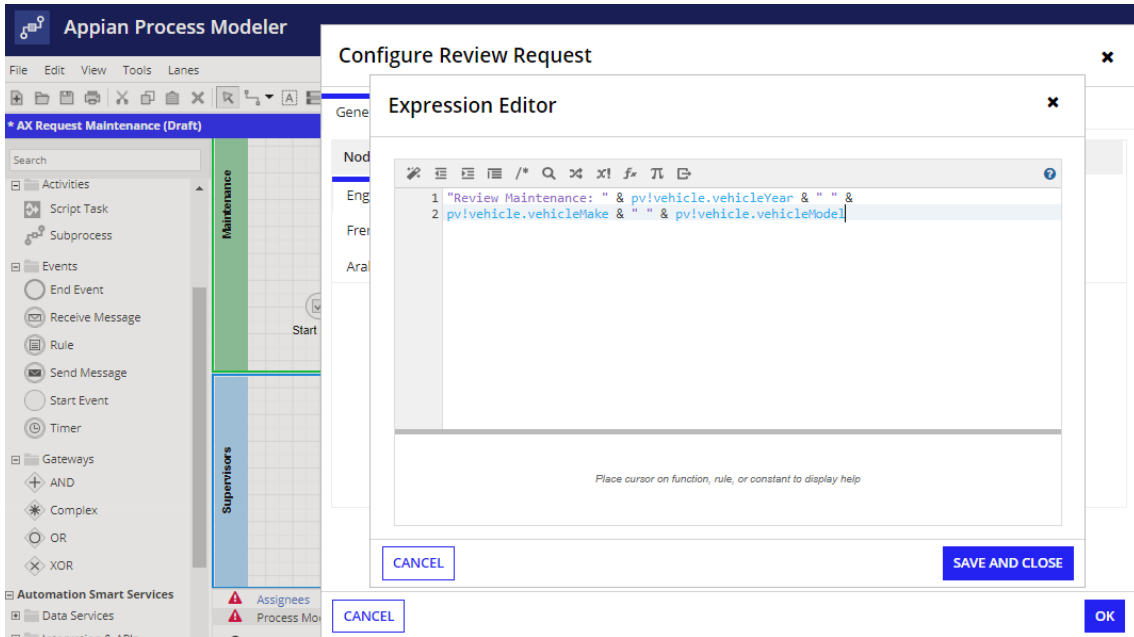
- **Incoming Path(s):** 1 or more paths can enter an XOR gateway
- ⇨ **Outgoing Paths:** 1 or more paths can exit an XOR gateway, but only ONE gets executed

Conditions

	Condition	Result	Path Label	Order
✖	If =pv!maintenance.maintenanceScheduled <input type="checkbox"/> is True	go to Store Additional Values ▼	<input style="width: 80%;" type="text"/>	
	Else if no rules are TRUE	go to Review Request ▼		

NEW CONDITION

Configure the User Input Task



Configure Review Request

General | Data | Forms | Scheduling | **Assignment** | Escalations | Exceptions | Other

Assignment

Override lane assignment for this node

This node will be assigned as a task to a person or a group of people

Assign to the following: "AX Supervisors";

Set re-assignment privileges for assignees

This node will run as an automated activity. It will not be assigned to anyone as a task

Options

When executing more than once, there should be one-to-one assignment of task instances to assignees

Notify task assignees of new task via email and mobile push notification if applicable

Configure Review Request

General **Data** Forms Scheduling Assignment Escalations Exceptions Other

Inputs **Outputs**

Node Inputs ⓘ Map the value(s) for the inputs of the node

+ New Input ✖ Delete Input

- approvalDecision (Boolean)
- vehicle** (AX_Vehicle)
- maintenance (AX_Maintenance)

Field Properties

Name:

Type:

Multiple:

Value:

Required:

Save into:

Configure Review Request

General **Data** Forms Scheduling Assignment Escalations Exceptions Other

Inputs **Outputs**

Node Inputs ⓘ Map the value(s) for the inputs of the node

+ New Input ✖ Delete Input

- approvalDecision (Boolean)
- vehicle (AX_Vehicle)
- maintenance** (AX_Maintenance)

Field Properties

Name:

Type:

Multiple:

Value:

Required:

Save into:

Configure Review Request

General **Data** Forms Scheduling Assignment Escalations Exceptions Other

Inputs **Outputs**

Node Inputs ⓘ Map the value(s) for the inputs of the node

+ New Input ✖ Delete Input

- approvalDecision** (Boolean)
- vehicle (AX_Vehicle)
- maintenance (AX_Maintenance)

Field Properties

Name:

Type:

Multiple:

Value:

Required:

Save into:

Configure the Approved Gateway

Configure Approved? ✕

Expression Editor ✕

General

Flow

Condition

Else if

NEW

1 pv!approvalDecision

Place cursor on function, rule, or constant to display help

Order

CANCEL **SAVE AND CLOSE**

CANCEL **OK**

Configure Approved? ✕

General **Decision**

Flows

- ➔ **Incoming Path(s):** 1 or more paths can enter an XOR gateway
- ➔ **Outgoing Paths:** 1 or more paths can exit an XOR gateway, but only ONE gets executed

Conditions

	Condition	Result	Path Label	Order
✕	If =pv!approvalDecision <input type="checkbox"/> is True	go to Store Additional Values ▼	Yes	
	Else if no rules are TRUE	go to End - Reject ▼		

NEW CONDITION

Configure the Script Task

Configure Store Additional Values

Expression Editor

```
1 today()
```

today
Returns the current day.
Returns: Date

CANCEL SAVE AND CLOSE

CANCEL OK

Configure Store Additional Values

General **Data** Forms Scheduling Assignment Exceptions Other

Inputs **Outputs**

Node Outputs *Save node data to Process Variables for use elsewhere in the Process*

+ New Custom Output ✕ Delete Custom Output

▼ Results
...There are no results to configure

▼ Custom Outputs
today()
... (No Expression has been configured)

Expression Properties

Expression today()

Operator is stored as

Target maintenance.maintenanceLast

Expression Editor



1 pp!initiator

Place cursor on function, rule, or constant to display help

CANCEL

SAVE AND CLOSE

Configure Store Additional Values

General **Data** Forms Scheduling Assignment Exceptions Other

Inputs **Outputs**

Node Outputs Save node data to Process Variables for use elsewhere in the Process

New Custom Output Delete Custom Output

▼ Results

...There are no results to configure

▼ Custom Outputs

today()
pp!initiator

Expression Properties

Expression pp!initiator

Operator is stored as ▼

Target maintenance.maintenanceReq ▼

Configure Store Additional Values

General **Data** Forms Scheduling Assignment Exceptions Other

Inputs **Outputs**

Node Outputs ⓘ Save node data to Process Variables for use elsewhere in the Process

[+ New Custom Output](#) [✖ Delete Custom Output](#)

▼ **Results**
...There are no results to configure

▼ **Custom Outputs**

- today()
- pp!initiator
- today()**

Expression Properties

Expression

Operator

Target +

Configure Store Additional Values

General **Data** Forms Scheduling Assignment Exceptions Other

Inputs **Outputs**

Node Outputs ⓘ Save node data to Process Variables for use elsewhere in the Process

[+ New Custom Output](#) [✖ Delete Custom Output](#)

▼ **Results**
...There are no results to configure

▼ **Custom Outputs**

- today()
- pp!initiator
- today()
- pp!initiator**

Expression Properties

Expression

Operator

Target +

Expression Editor



✎ ≡ ≡ ≡ /* Q ↻ x! f* π ⇄ ?

1 ""Scheduled""

Place cursor on function, rule, or constant to display help

CANCEL

SAVE AND CLOSE

Configure Store Additional Values

General Data Forms Scheduling Assignment Exceptions Other

Inputs Outputs

Node Outputs i Save node data to Process Variables for use elsewhere in the Process

+ New Custom Output ✖ Delete Custom Output

▼ Results
...There are no results to configure

▼ Custom Outputs

- ...today()
- ...pplinitiator
- ...today()
- ...pplinitiator
- ...""Scheduled""

Expression Properties

Expression ?

Operator is stored as ▼

Target maintenance.maintenanceStat +

Expression Editor



✎ ≡ ≡ ≡ /* Q ↻ x! f* π ⇄ ?

1 `pv!vehicle.vehicleId`

Place cursor on function, rule, or constant to display help

CANCEL

SAVE AND CLOSE

Configure Store Additional Values



General **Data** Forms Scheduling Assignment Exceptions Other

Inputs **Outputs**

Node Outputs i Save node data to Process Variables for use elsewhere in the Process

+ New Custom Output

✖ Delete Custom Output

Results

...There are no results to configure

Custom Outputs

- ...today()
- ...pp!initiator
- ...today()
- ...pp!initiator
- ...""Scheduled""
- `pv!vehicle.vehicleId`

Expression Properties

Expression `pv!vehicle.vehicleId` ✎

Operator is stored as ▼

Target maintenance.vehicleId +

CANCEL

OK

Test your process model

Nueva solicitud de mantenimiento

Detalles del vehículo

Año
 Hacer
 Modelo
 VIN
 Kilometraje

Detalles de mantenimiento

Fecha de solicitud *

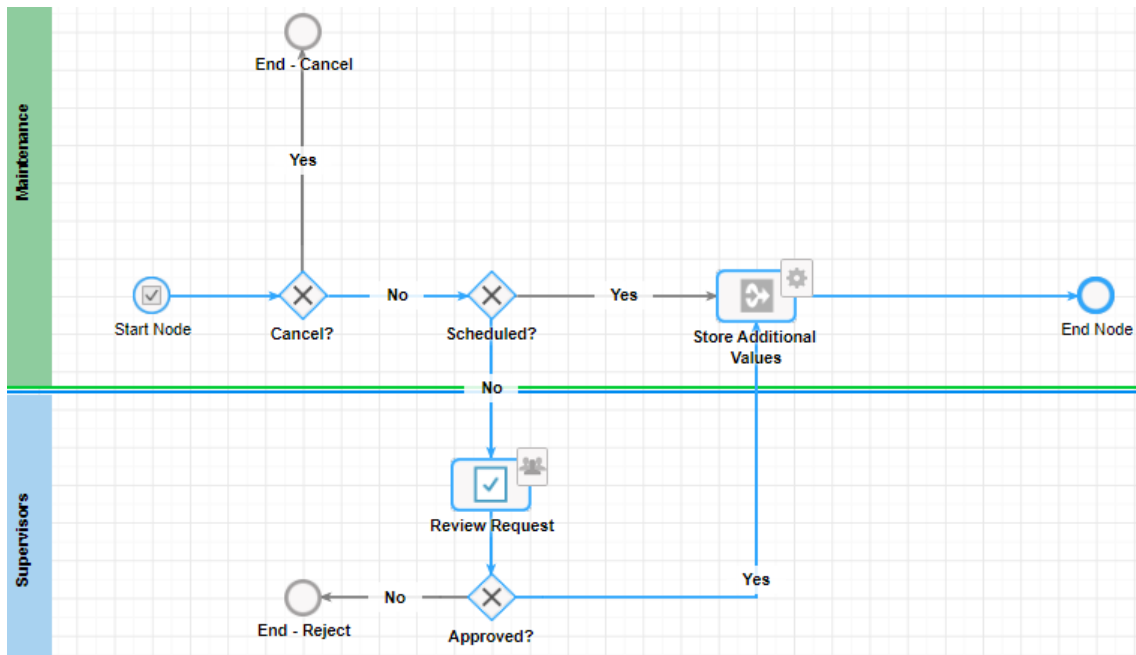
Tema *

Tipo de Mantenimiento*

Programado no programado

CANCELAR

ENVIAR

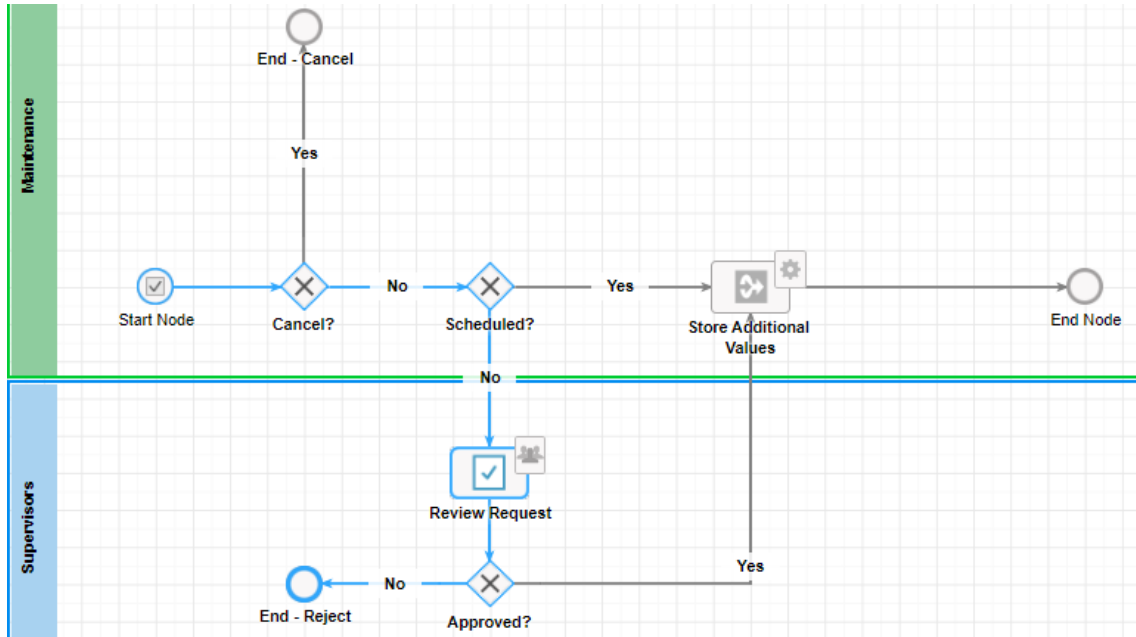


Process Details » AX Request Maintenance

Process History Variables Process Nodes Current Tasks Errors Sub-Processes Quick Tasks

Name	Type	Multiple	Value
approvalDecision	Boolean	No	True
cancel	Boolean	No	(No value)
maintenance	AX_Maintenance	No	[maintenanceRequestId=, vehicleId=, maintenanceRequestDate=8/7/2022, maintenanceScheduled=false, maintenanceIssue=Revisión Técnica, maintenanceStatus="Scheduled", maintenanceStartDate=, maintenanceEstimatedCompleteDate=, maintenanceActualCompleteDate=, maintenanceDuration=, maintenanceCost=, maintenanceRequester=jaguzmanc@indracompany.com, maintenanceMechanic=, maintenanceReviewStatus=, maintenanceReviewer=, maintenanceReviewDate=8/7/2022, maintenanceLastModifiedBy=jaguzmanc@indracompany.com, maintenanceLastModifiedDate=8/7/2022, maintenanceAttachment=]
vehicle	AX_Vehicle	No	(No value)

CLOSE



Configure the Write to Maintenance Entity Service

Configure Write to Maintenance Entity

General | **Data** | Forms | Scheduling | Assignment | Escalations | Exceptions | Other

Inputs | Outputs

Node Inputs

+ New Input

Data Store Entity

Choose an Entity

-- AX Data Store

- AX_Maintenance Select
- AX_Vehicle Select

AX Data Store

Data store containing all application's data store entities

Created by iauezmanc@indracompany.com

Selected: "AX_Maintenance"

OK CANCEL

CANCEL

OK

Configure Write to Maintenance Entity

General | **Data** | Forms | Scheduling | Assignment | Escalations | Exceptions | Other

Inputs | Outputs

Node Inputs Map the value(s) for the inputs of the node

[+ New Input](#) [✗ Delete Input](#)

- Data Store Entity * (Data Store Entity)
- maintenance (AX_Maintenance)

Field Properties

Name:

Type: ⋮

Multiple:

Value: ↕

Required:

Save into: ⊕

Configure Write to Maintenance Entity

General | Data | Forms | Scheduling | **Assignment** | Escalations | Exceptions | Other

Assignment

Override lane assignment for this node

This node will be assigned as a task to a person or a group of people

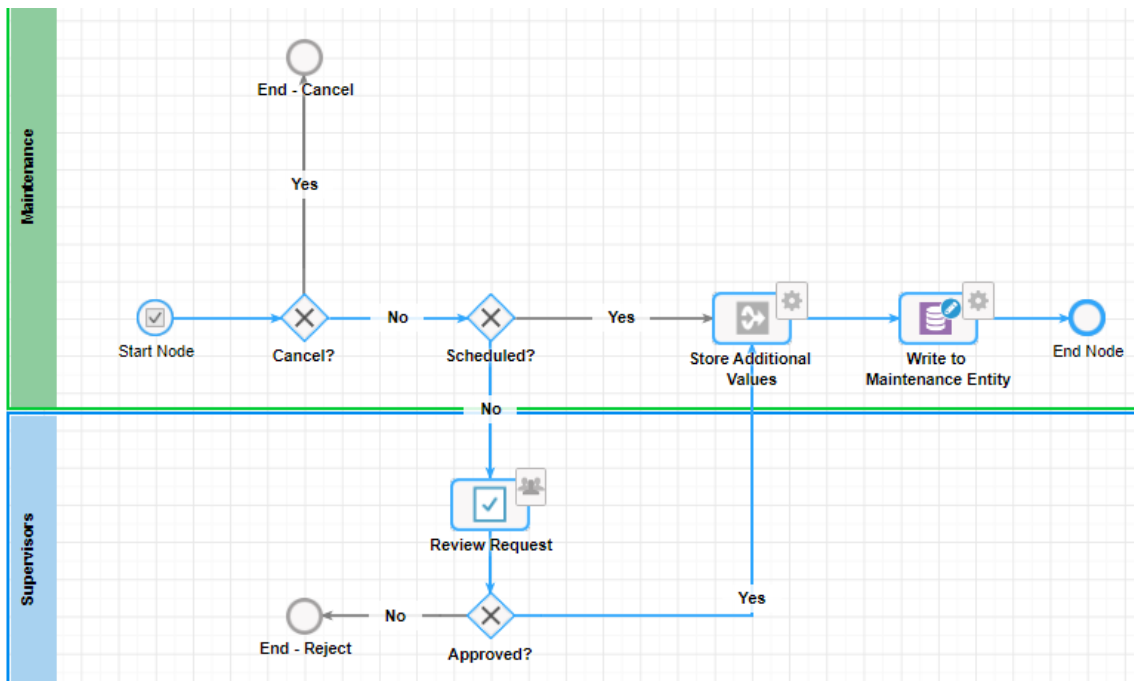
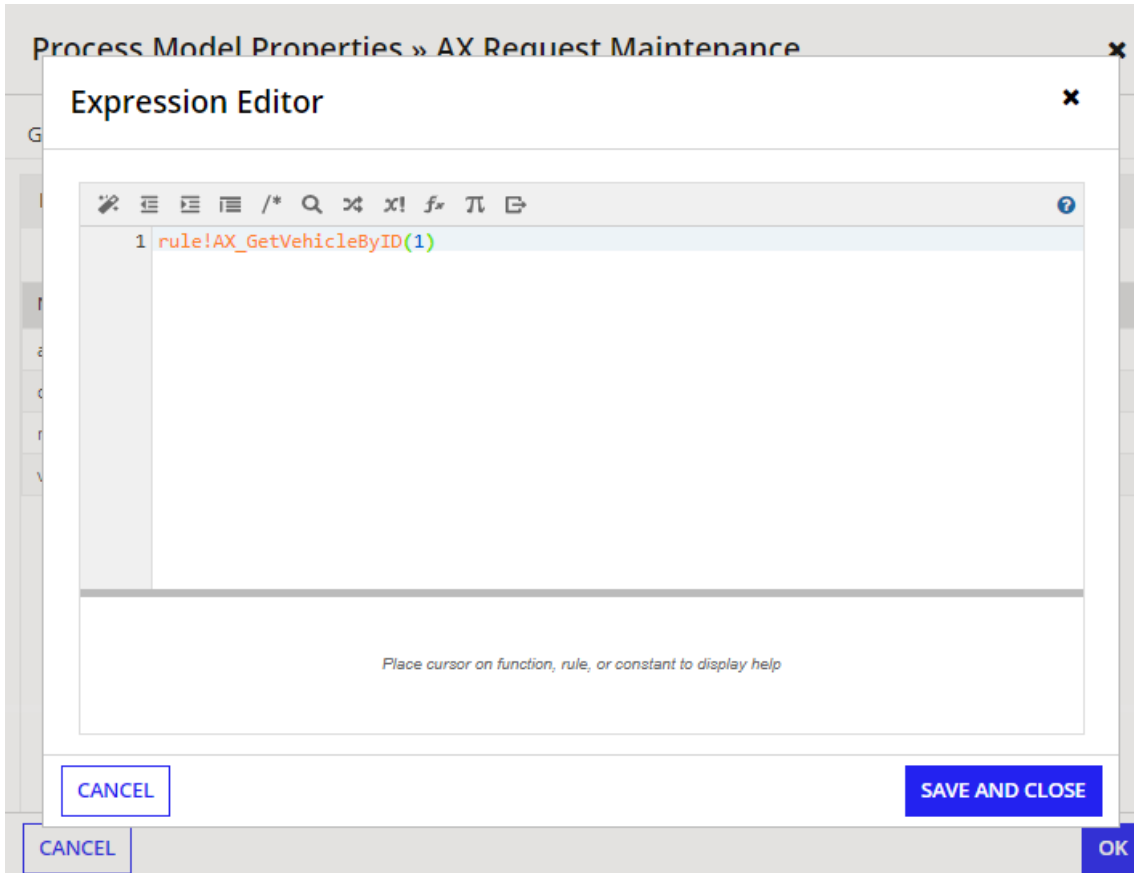
This node will run as an automated activity. It will not be assigned to anyone as a task

- Run as whoever started the process
- Run as whoever designed this process model

Options

- When executing more than once, there should be one-to-one assignment of task instances to assignees
- Notify task assignees of new task via email and mobile push notification if applicable

Test the Process



Create a Related Action

Create New Related Action

DATA

Data Model

Sync Options

USER INTERFACES

Tempo

List

Search and User Filter

Views and Header

Record Actions

SECURITY

Record-Level Security

MONITORING

Performance

Sync History

Display Name

Use process model name Enter name Use expression

Request Maintenance

Key

requestMaintenance

Description

Enter description Use expression

Solicitar mantenimiento para un vehículo

Icon

Dialog Box Size

Large Medium Small

Process Model

AX Request Maintenance X

Context

```

1 {
2   cancel: null, /* Boolean */
3   maintenance: null, /* AX_Maintenance */
4   vehicle: rule!AX_GetVehicleByID(rv!identifier) /* AX_Vehicle */
5 }

```

Place cursor on function, rule, or constant to display help

Create New Related Action

Icon

Dialog Box Size

Large Medium Small

The selected size will only apply to actions that are configured to open in a dialog box. Configure how related actions are opened in each record view or in the record action component.

Place cursor on function, rule, or constant to display help

Visibility

```

1 a!isusermemberofgroup(loggedInUser()),
2 cons!AX_MAINTENANCE_POINTER

```

Edit View

View Name

Default ("Summary") Expression

Interface

```

1 rule!AX_Vehicle_Summary(rv!record)

```

Place cursor on function, rule, or constant to display help

Visibility

=true()

Related Action Shortcuts

Request Maintenance

Shortcuts to the selected actions are available from the view

Open Actions In

DIALOG BOX

NEW TAB

SAME TAB

Dialog box size is configured on each related action

News Tasks (3) Records Reports Actions
appian

Records / AX Ve

2019 Fo

Summary

Vehicle

Vehiclemake

Vehiclecolor

Vehiclestatus

Vehiclemileage

Vehiclevin

Vehiclenextma

ancedate

Vehicleadde

Vehiclelastmo

y

Mileage Catego

New Maintenance Request

Vehicle Details

Year 2019

Make Ford

Model F150

VIN 2F2DE48C8N4309374

Mileage 500

Maintenance Details

Request Date *

Issue *


Type of Maintenance *

Scheduled Unscheduled

CANCEL
SUBMIT

Noticias Tareas (3) Registros Informes Comportamiento
appian

Vehículo

Año	2019	Condición	Como nuevo	
Hacer	Vado	Kilometraje	500	
Color	Rojo	Categoría de millaje	Bajo kilometraje	
Modelo	F150	Fecha Agregada	4 de mayo de 2019	
Categoría	Camión	Próxima fecha de mantenimiento	10 de agosto de 2020	
VIN	2F2DE48C8N4309374			
Estado	En mantenimiento			

Solicitudes de mantenimiento

Solicitud	Tema	Vehículo	Mecánico	Estado del servicio	Fecha de solicitud
MR0001	Neumático desinflado	2F2DE48C8N4309374	mike mecanico	Terminado	3/5/2020
MR0042	Olor a quemado después de conducir durante más de 15 minutos. Verificado que no es por la fuga de aceite.	2F2DE48C8N4309374	Fred Fixit	Terminado	5/5/2020
MR0043	Problema con el cinturón de seguridad del lado del conductor. El problema es con el pestillo.	2F2DE48C8N4309374	mike mecanico	Terminado	5/7/2020
MR0059	Fuga de agua en el interior del coche	2F2DE48C8N4309374	mike mecanico	Terminado	12/05/2020
MR0060	Los frenos son ruidosos.	2F2DE48C8N4309374	mike mecanico	Terminado	12/05/2020
MR0114	Fuga de aceite	2F2DE48C8N4309374	mike mecanico	Terminado	6/8/2020
MR0121	PRUEBA PRUEBA	2F2DE48C8N4309374	Sin asignar	"Programado"	8/7/2022