Creating and Using Screen Action Exercise

Table of Contents

knowledge@outsystems.com

www.outsystems.com

Outline

In this exercise, our primary objective is to develop logical flows through the application of 'Switch' constructs. The logic designed to generate Email IDs in the format: *First name.Last* name@amce.co.office *location*.

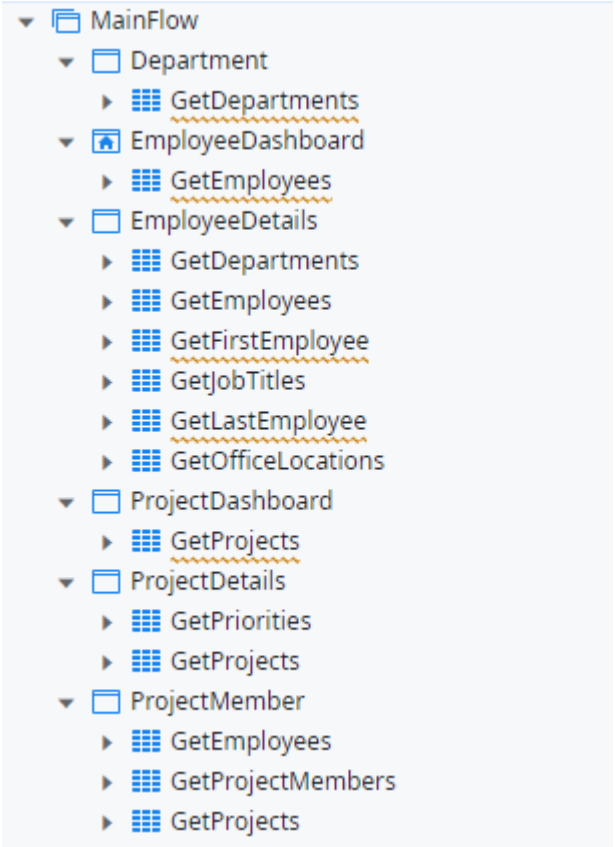
Upon successful completion of this exercise, the application will have a action that support the above outlined scenarios.

Scenario

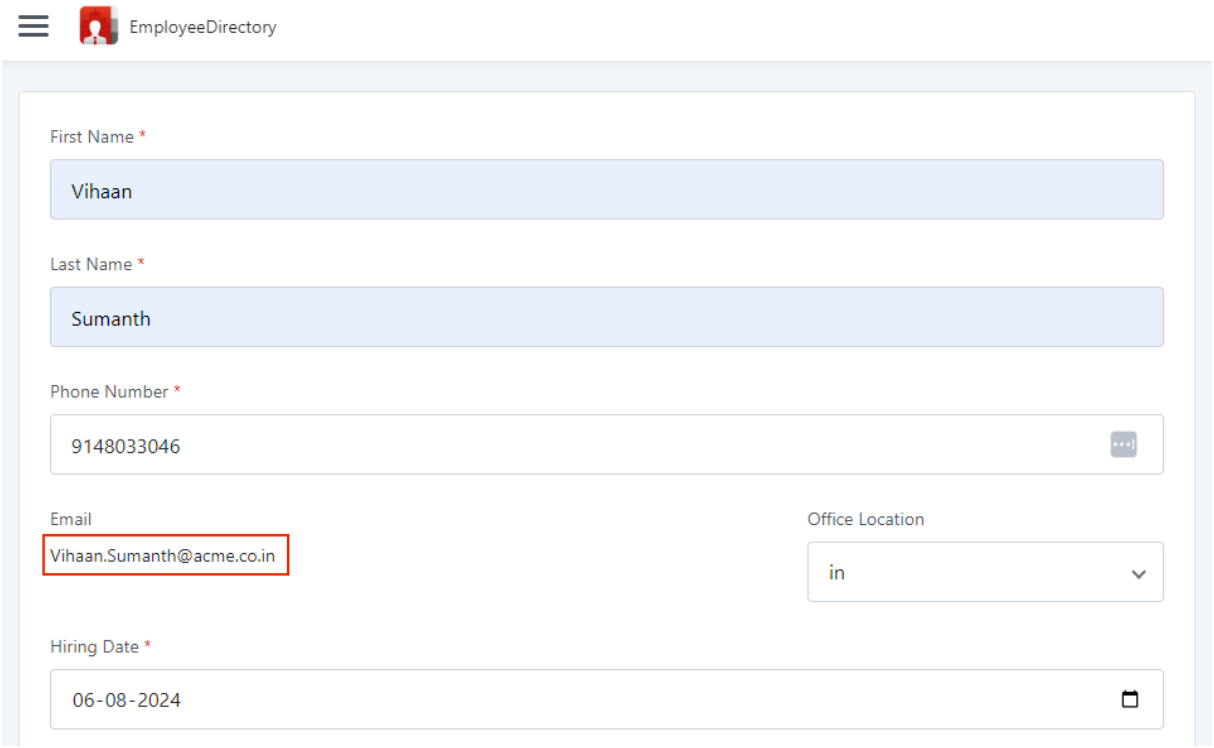
In this exercise, you will enhance the existing **Employee Directory** app, which consists of a single module containing essential entities, screens, and aggregates established in previous activities.

The module comprises five distinct screens, which have some Aggregates defined.

The *EmployeeDetails* Screen, built using Forms and various input widgets, integrate specialized Aggregates. Specifically, the *EmployeeDetails* Screen has the *GetEmployees* Aggregate, facilitating both inserting and retrieving employee details matching the corresponding Id from the database.



Starting from this application, in this exercise, we want to in the *EmployeeDetails* Screen, implement a logic that generates Email IDs for new employees in a specified format.



How-To

In this section, we will show you how to do this exercise, with a thorough step-by-step description. **If you already finished the exercise on your own, great! You don't need to go through it again**. If you didn't finish the exercise, that's fine! We're here to help you out.

Generate Specific Email ID Format

In this section, we will build a logic using the Switch statement to generate Email IDs for new employees. The format will be as follows: *First name.Last* name@acme.co.office *location*.

Create Screen Action

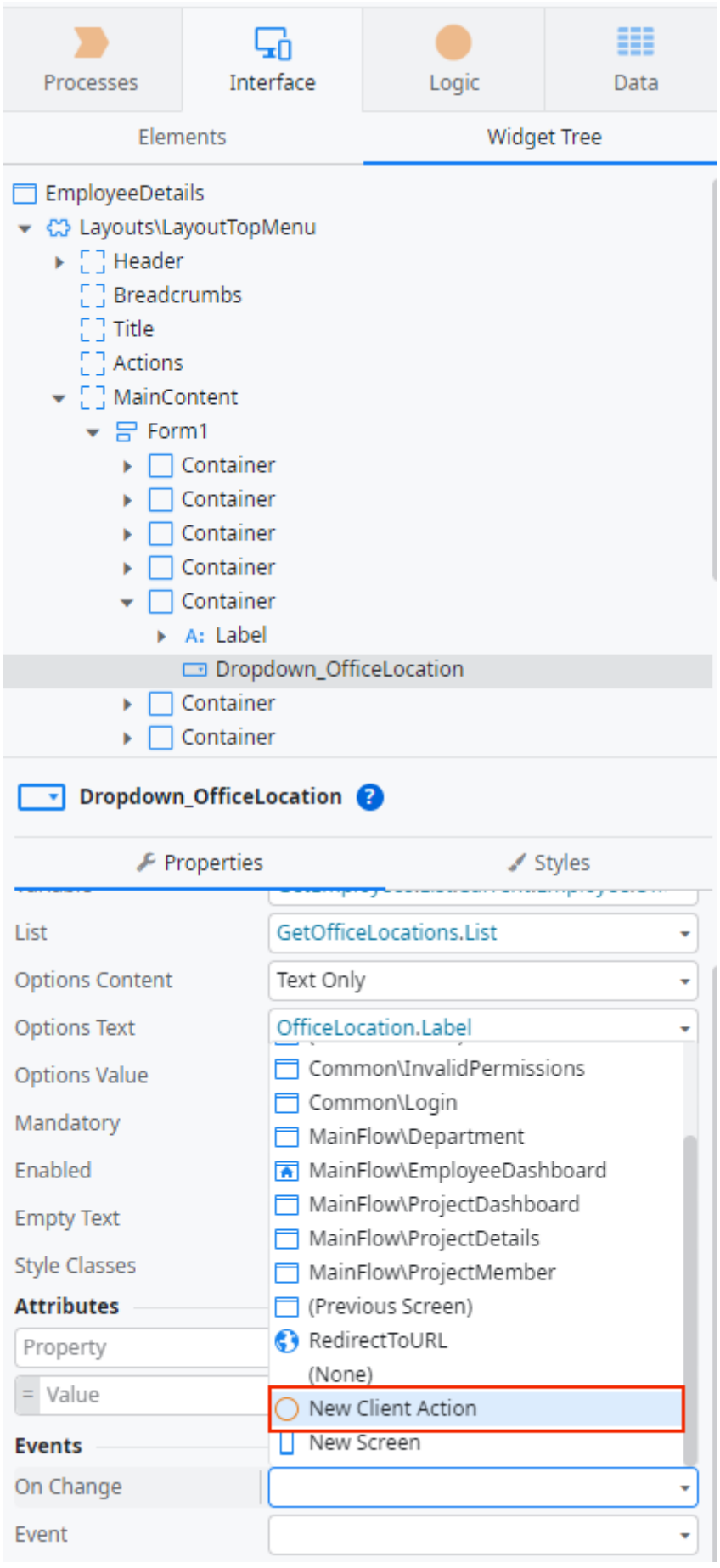
Recall the previously created office Location field from the earlier exercise. It now takes center stage in this current task, playing an important role as a key parameter in the generation of Email IDs.

Let's now proceed to create a Screen Client Action that generates the Email ID in the required format upon selection of a specific office location.

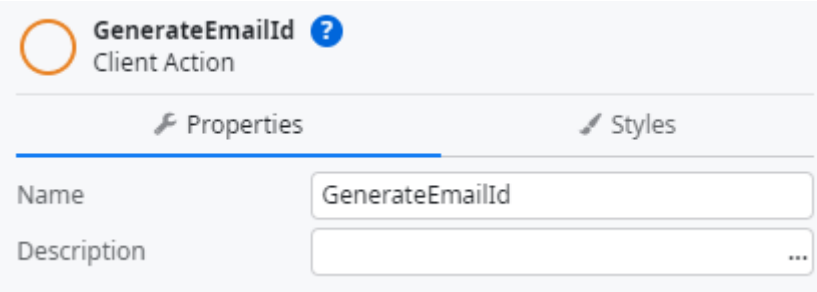
1) Open the EmployeeDetails Screen from the Interface tab.

2) Select the **Office Location** dropdown field in the form.

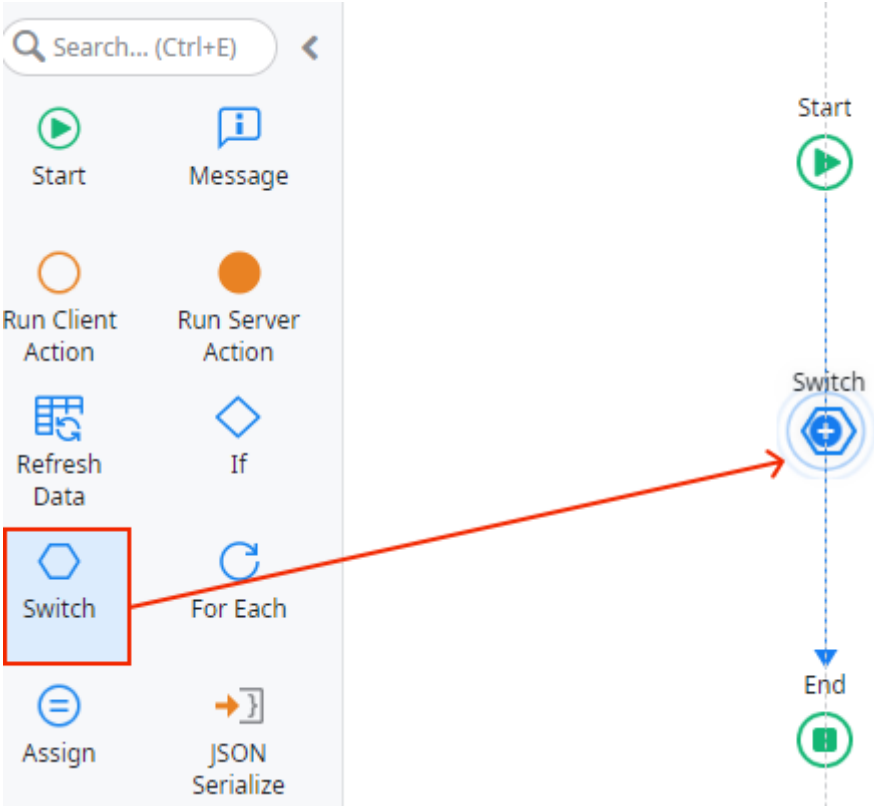
3) Choose **New Client Action** from the **On Change** drop-down menu in the *Dropdown_OfficeLocation* properties to create a new Client Action. This initiates the logic flow diagram.


Processes
Interface
Logic
Data
Elements
Widget Tree
EmployeeDetails
Layouts\LayoutTopMenu
Header
Breadcrumbs
Title
Actions
MainContent
Form1
Container
Container
Container
Container
Container
A: Label
Dropdown_OfficeLocation
Container
Container
Dropdown_OfficeLocation
Properties
Styles
List
GetOfficeLocations.List
Options Content
Text Only
Options Text
OfficeLocation.Label
Options Value
Mandatory
Enabled
Empty Text
Style Classes
Attributes
Property
= Value
Events
On Change
Event
Common\InvalidPermissions
Common\Login
MainFlow\Department
MainFlow\EmployeeDashboard
MainFlow\ProjectDashboard
MainFlow\ProjectDetails
MainFlow\ProjectMember
(Previous Screen)
RedirectToURL
(None)
New Client Action
New Screen

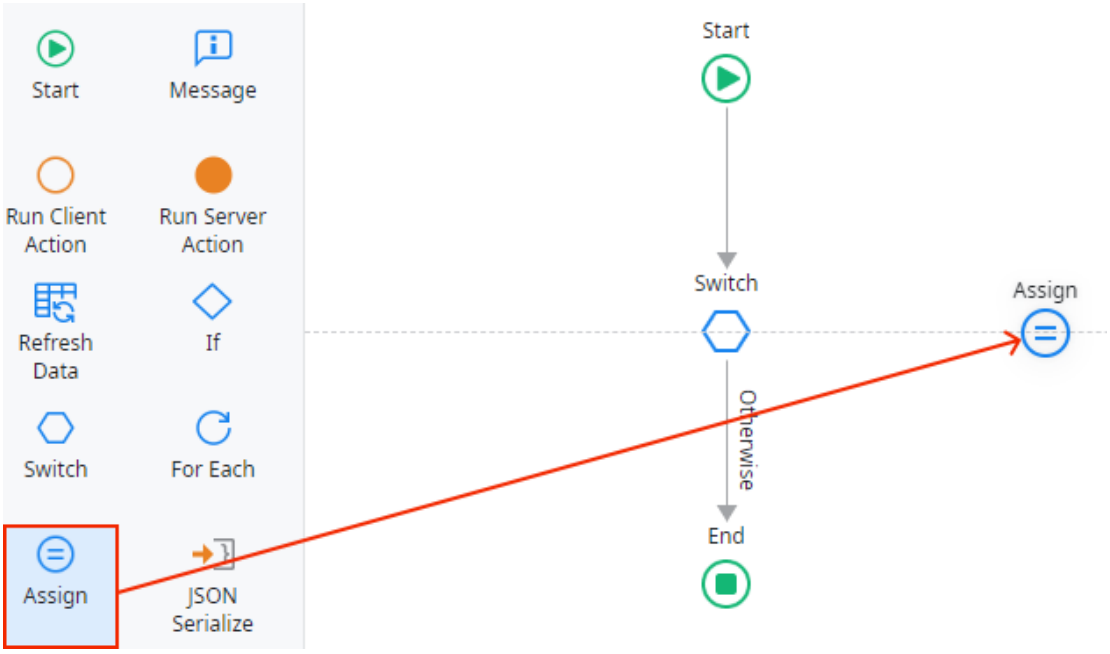
4) Change the Name of the Client Action to *GenerateEmailId*



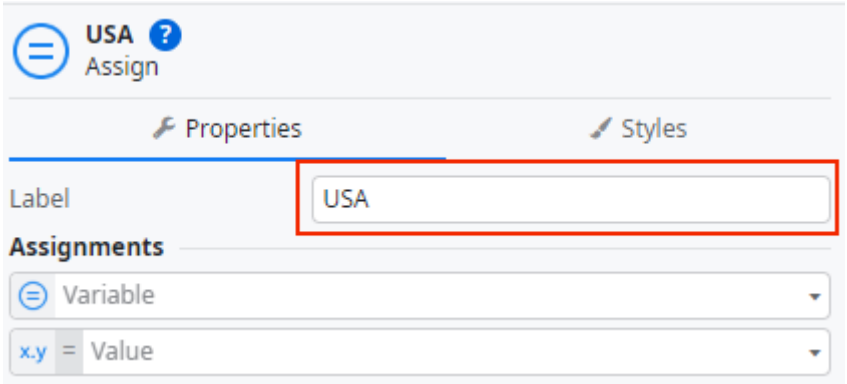
5) Drag a **Switch** and drop it between the Start and End.



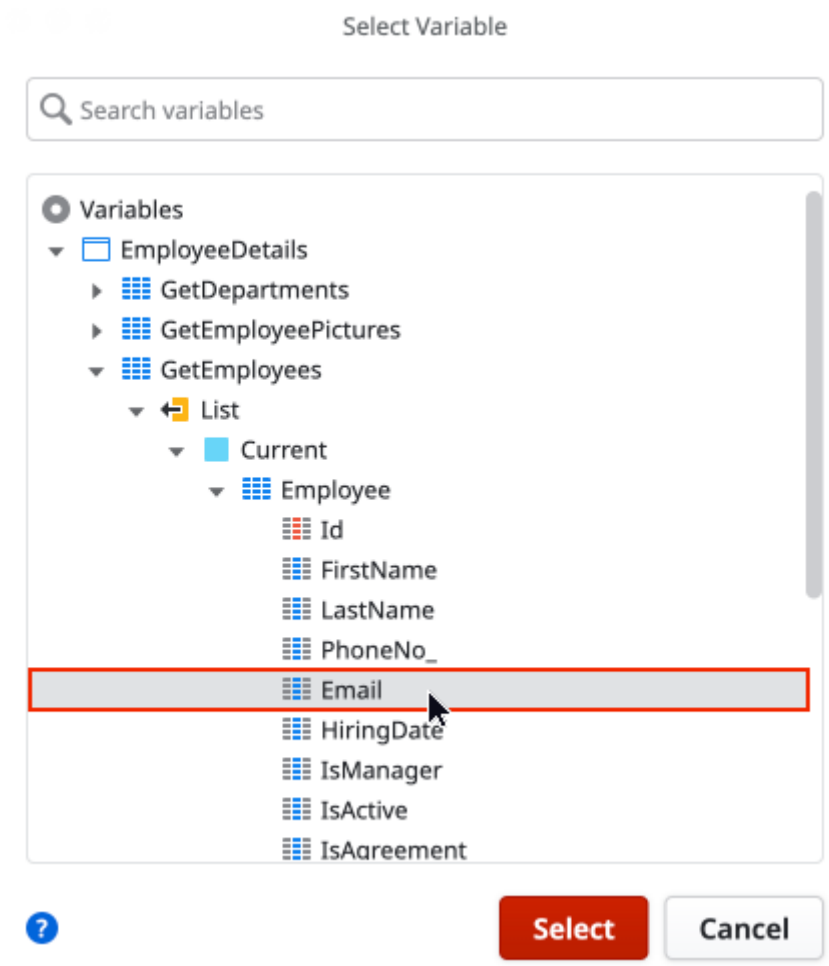
6) Insert an **Assign** to the right of the Switch element.



7) Set the name of the Assign to ***USA***.

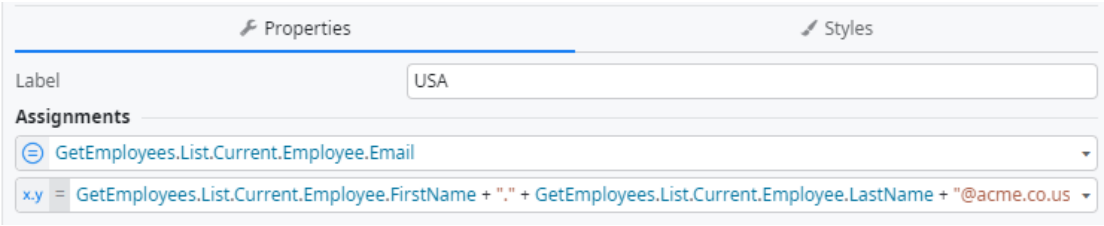


8) Set the **Variable** property to `GetEmployees.List.Current.Employee.Email`, the attribute allocated for storing the employee's Email in the Employee Entity.

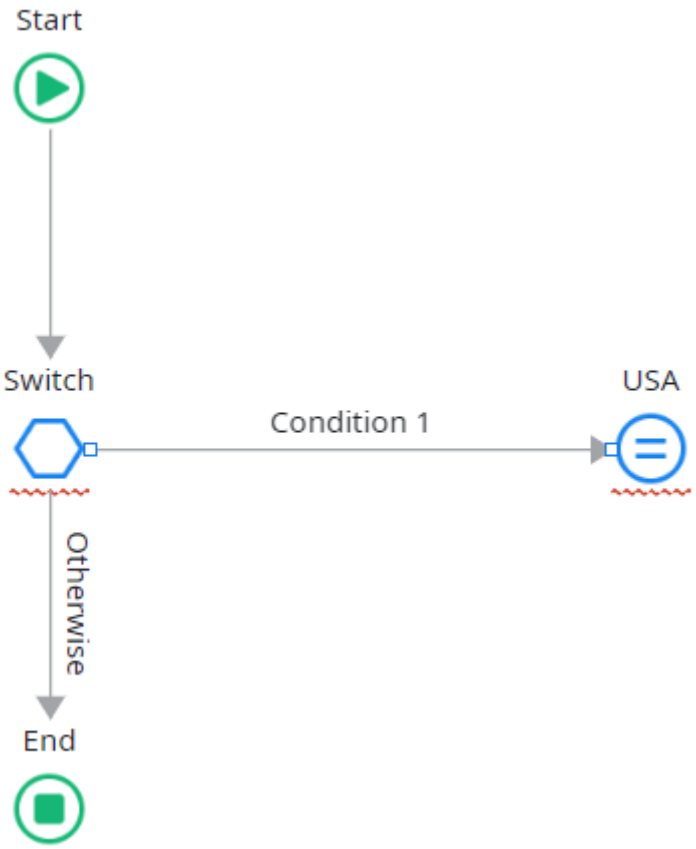


9) Set the **Value** to the required Email ID format for the "USA" location as follows.

```
GetEmployees.List.Current.Employee.FirstName + "." +
GetEmployees.List.Current.Employee.LastName + "@acme.co.us"
```

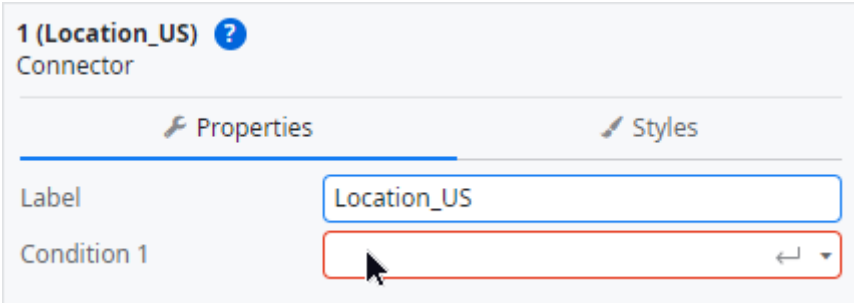


10) Create a connector from the **Switch** to the **Assign**.



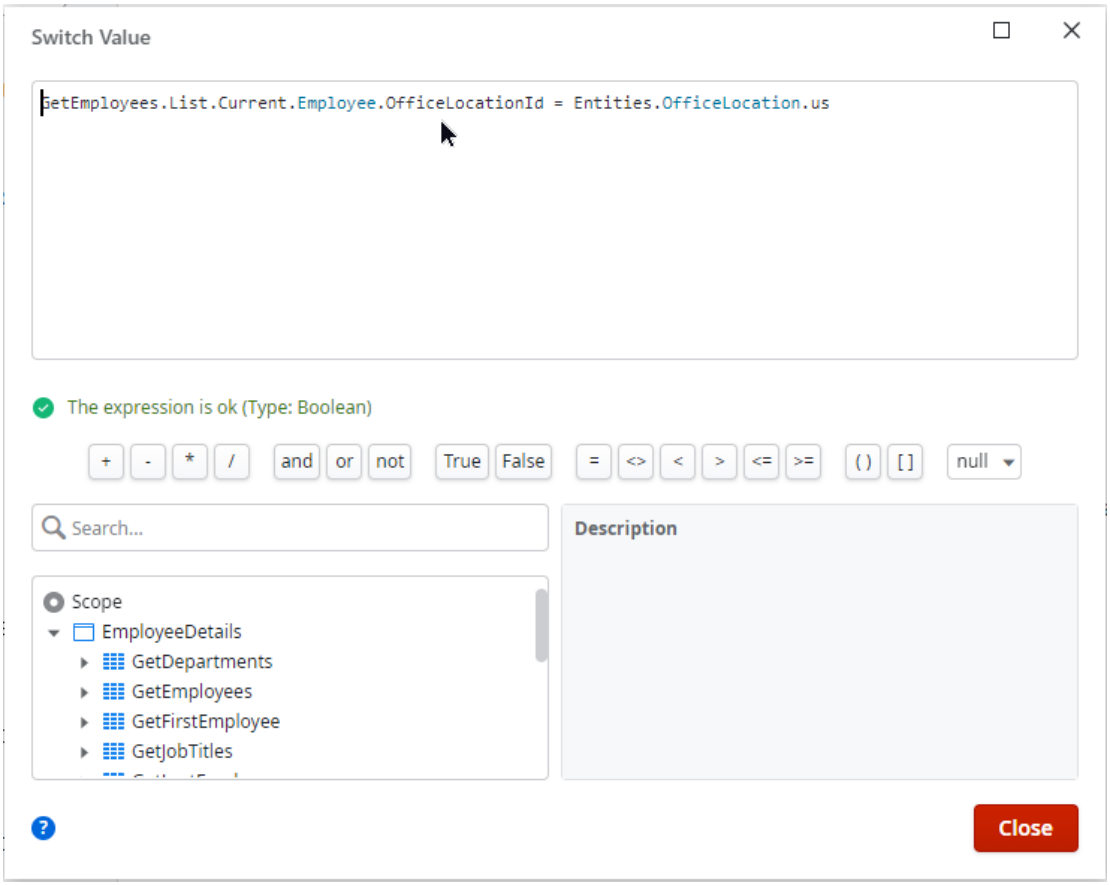
11) Set the name of the connector to ***Location_USA***

12) Double-click the **Condition** field for Connector 1.



13) Enter the following condition and Click **Close**.

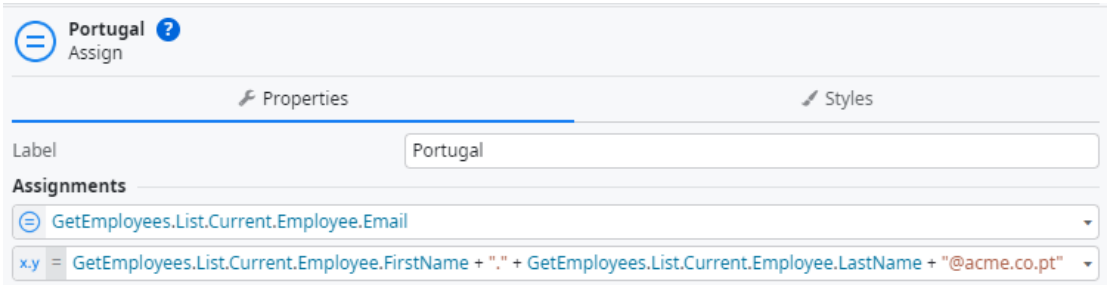
```
GetEmployees.List.Current.Employee.OfficeLocationId =
Entities.OfficeLocation.us
```



14) Add another **Assign** function below the existing one, and set its name to *Portugal*.

15) Add the following assignment to the the **Assign**:

```
GetEmployees.List.Current.Employee.Email
= GetEmployees.List.Current.Employee.FirstName + "." +
GetEmployees.List.Current.Employee.LastName + "@acme.co.pt"
```

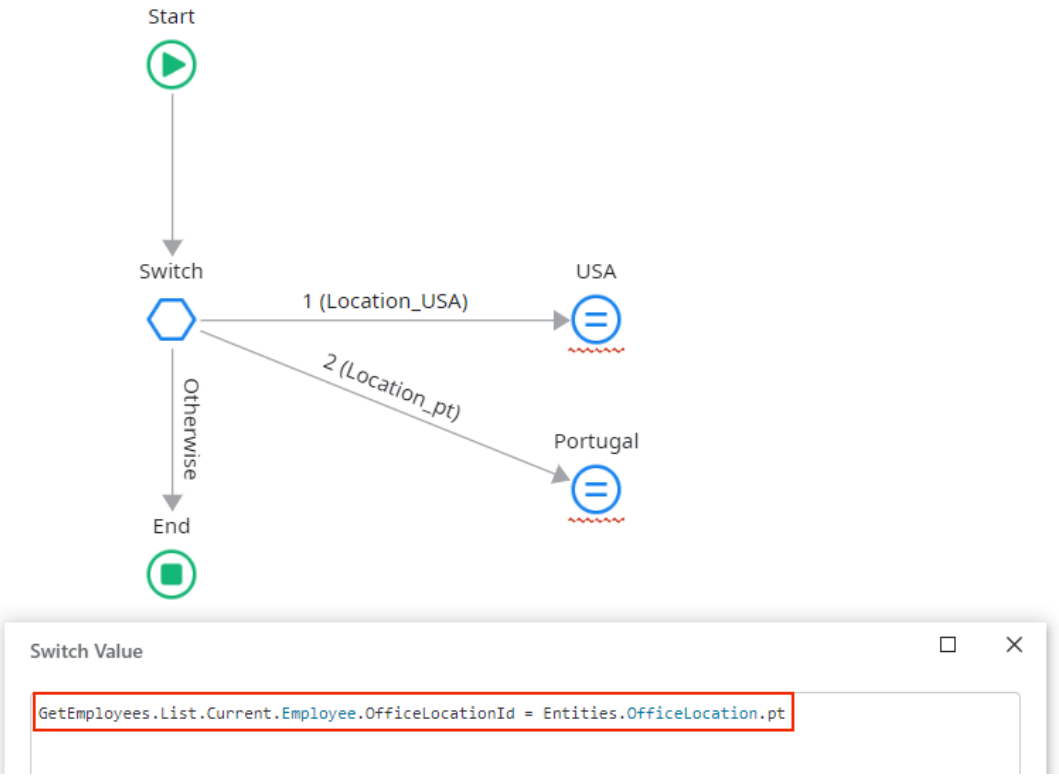


16) Create a connector from the Switch to the 'Portugal' Assign.

17) Set the name of the connector to ***Location_pt***.

18) Set the **Condition** of the connector to:

```
GetEmployees.List.Current.Employee.OfficeLocationId =
Entities.OfficeLocation.pt
```



19) Repeat the previous steps to replicate the condition for different office locations: India and Singapore.

For the India office location, the assignment should be

```
GetEmployees.List.Current.Employee.Email
= GetEmployees.List.Current.Employee.FirstName + "." +
GetEmployees.List.Current.Employee.LastName + "@acme.co.in"
```

The **Condition** of the connector should be:

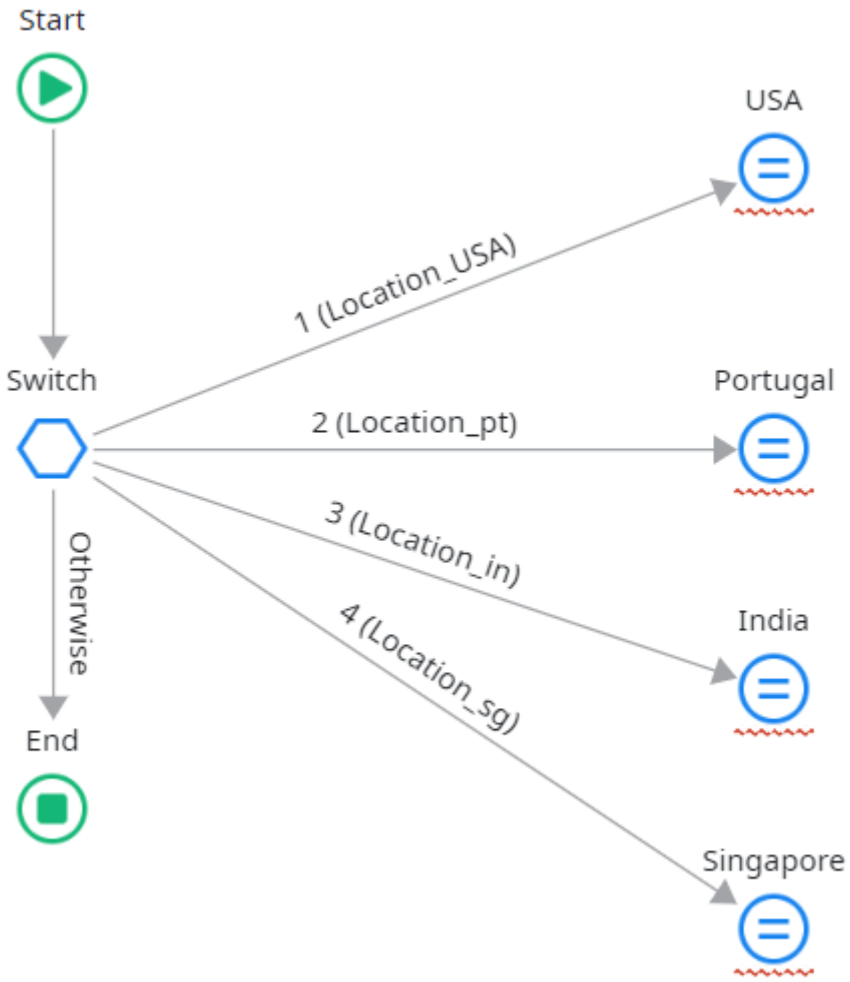
```
GetEmployees.List.Current.Employee.OfficeLocationId =
Entities.OfficeLocation.in
```

20) While the Singapore is:

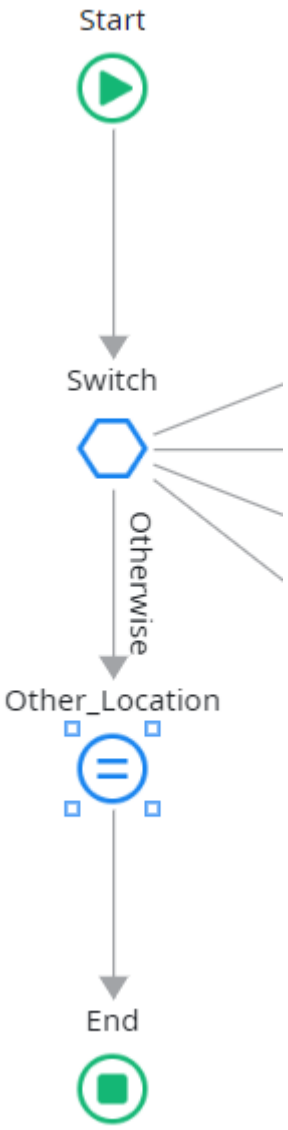
```
GetEmployees.List.Current.Employee.Email
= GetEmployees.List.Current.Employee.FirstName + "." +
GetEmployees.List.Current.Employee.LastName + "@acme.co.sg"
```

The **Condition** of the connector should be

```
GetEmployees.List.Current.Employee.OfficeLocationId =
Entities.OfficeLocation.sg
```

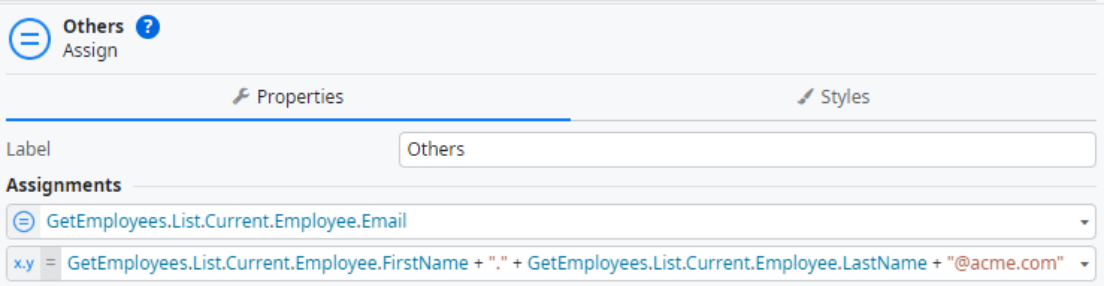


21) Place another **Assign** on the Otherwise branch and lable it **Other_Location**.



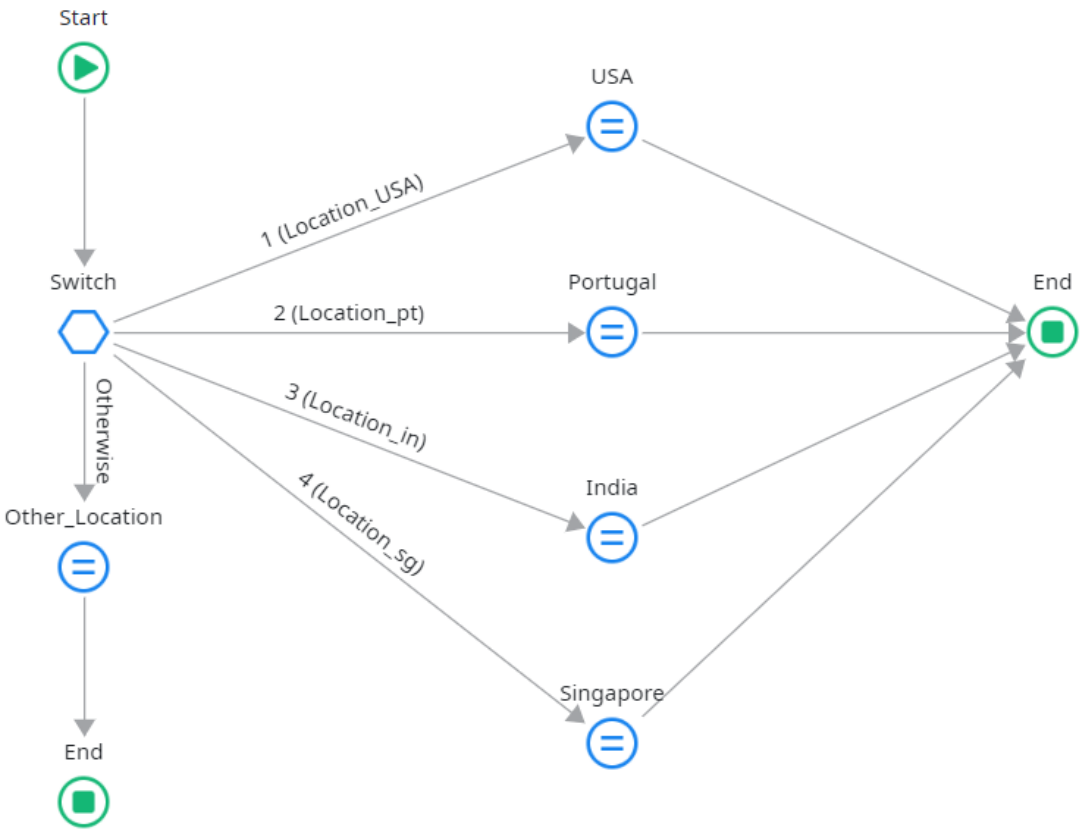
22) Set the Assign properties to the following.

```
GetEmployees.List.Current.Employee.Email
= GetEmployees.List.Current.Employee.FirstName + "." +
GetEmployees.List.Current.Employee.LastName + "@acme.com"
```



23) Drag an **End** element to the right of the flow and connect all the existing Assigns to the End element.

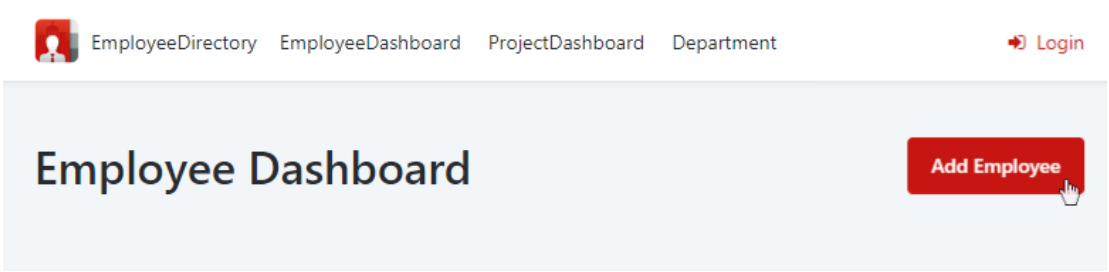
24) Ensure that the flow replicates the provided screenshot.



25) Publish the module to save these latest changes.

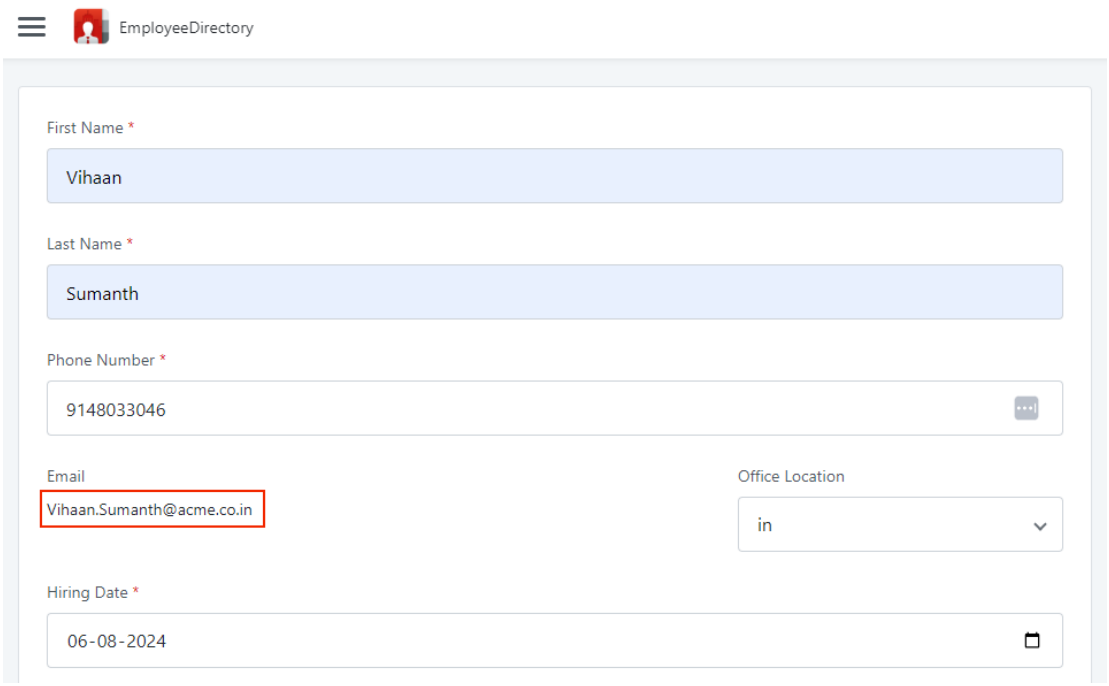
26) Open the application in the browser.

27) Click the **Add Employee** button to navigate to the *EmployeeDetails* Screen.



28) As you can see, the form fetches and displays the first record from the Employee Entity.

    Observe that the email is automatically generated using the first name, last name, and the chosen office location. If you modify the office location, the email ID will be automatically updated to reflect the new selection.



Congratulations! You've effectively created a screen logic to generate the Email Id in a specific format.