

Creating and Using Screen Action Exercise

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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*.

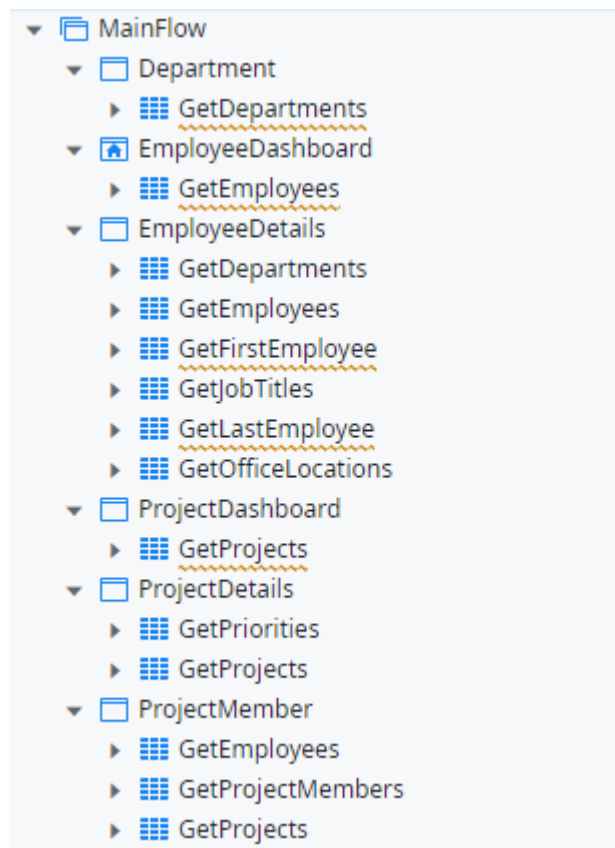
Upon successful completion of this exercise, the application will have a action that support the above outlined scenarios.

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.

 EmployeeDirectory

First Name *

Vihaan

Last Name *

Sumanth

Phone Number *

9148033046

Email

Vihaan.Sumanth@acme.co.in

Office Location

in

Hiring Date *

06-08-2024

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

Options Content

Options Text

Options Value

Mandatory

Enabled

Empty Text

Style Classes

Attributes

Property

= Value

Events

On Change

Event

GetOfficeLocations.List

Text Only

OfficeLocation.Label

Common\InvalidPermissions

Common>Login

MainFlow\Department

MainFlow\EmployeeDashboard

MainFlow\ProjectDashboard

MainFlow\ProjectDetails

MainFlow\ProjectMember

(Previous Screen)

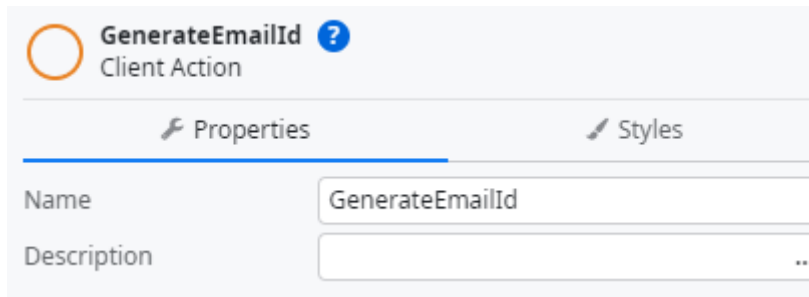
RedirectToURL

(None)

New Client Action

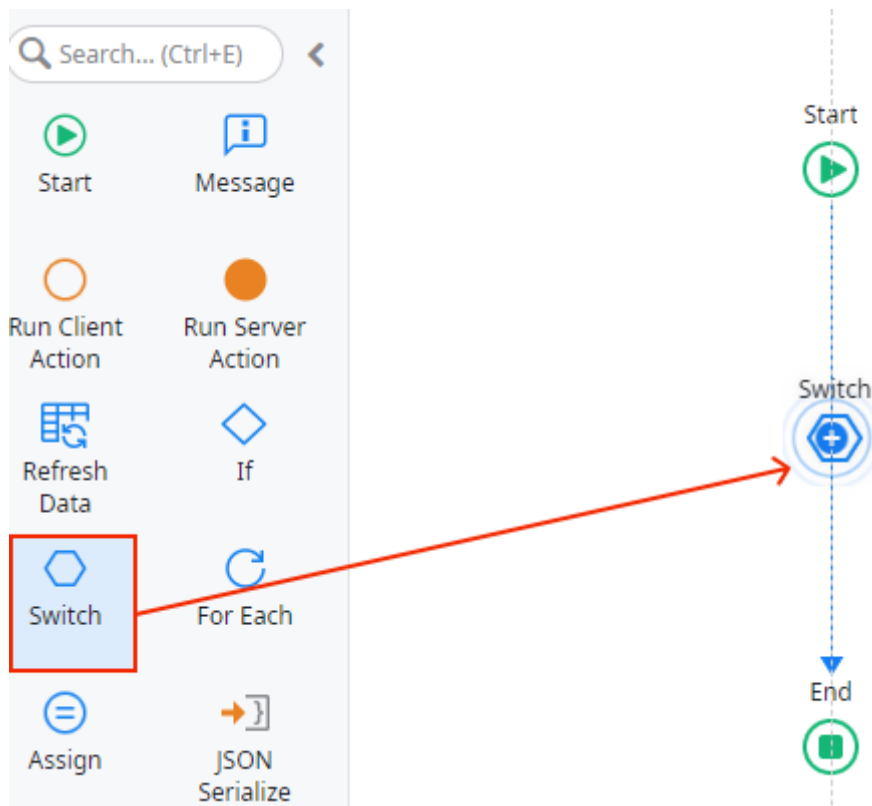
New Screen

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

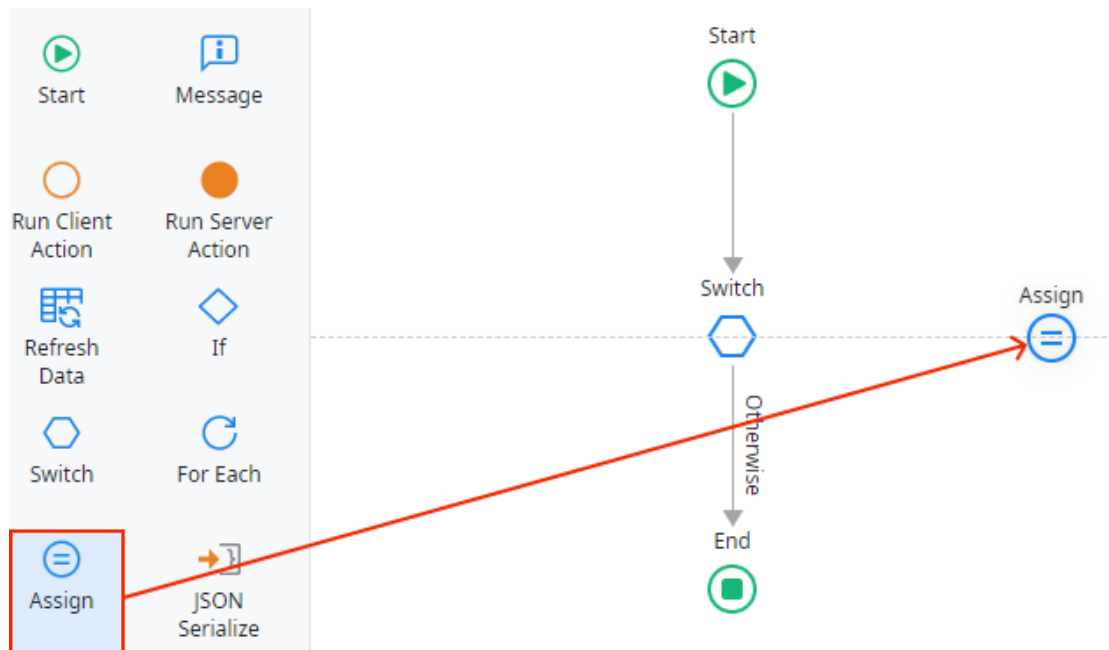


The screenshot shows the 'GenerateEmailId' Client Action configuration panel. It has a title bar with an orange circle icon, the text 'GenerateEmailId', and a help icon. Below the title bar are two tabs: 'Properties' (selected) and 'Styles'. Under the 'Properties' tab, there are two input fields: 'Name' with the value 'GenerateEmailId' and 'Description' which is empty.

- 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**.

The screenshot shows the configuration panel for the **Assign** element, which is named **USA**.

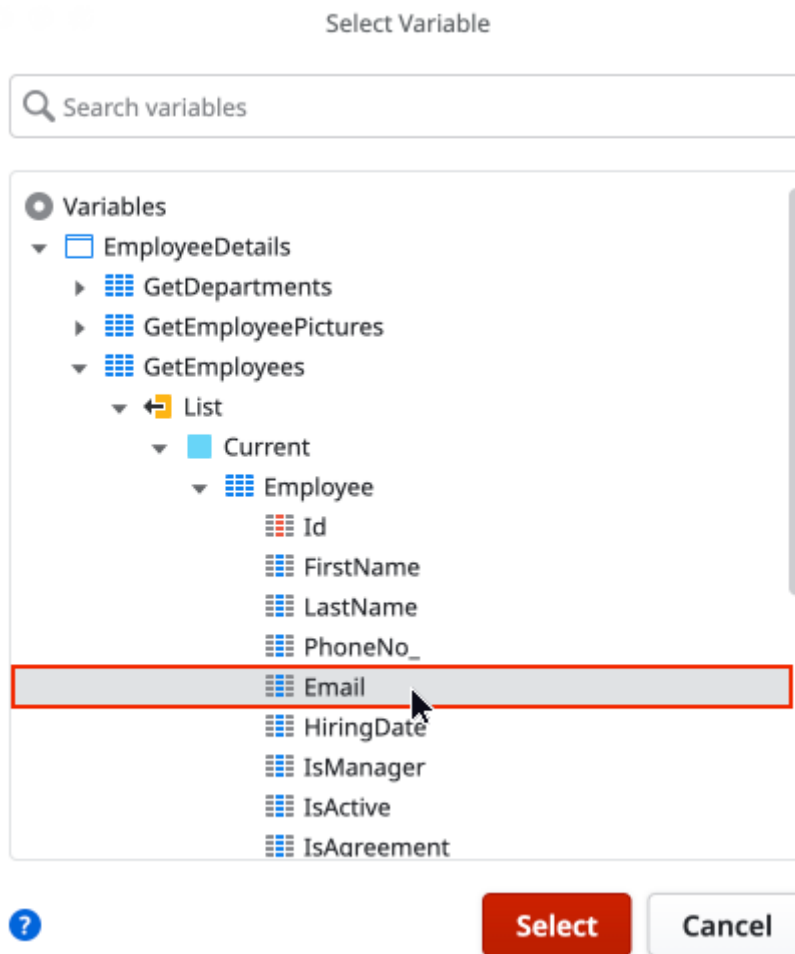
Properties:

- Label:** A text input field containing the value **USA**, which is highlighted with a red box.

Assignments:

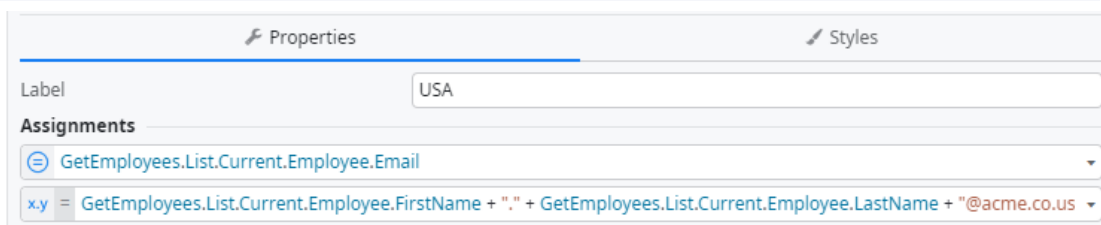
- Variable: A dropdown menu showing **Variable**.
- x.y = Value:** A dropdown menu showing **Value**.

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

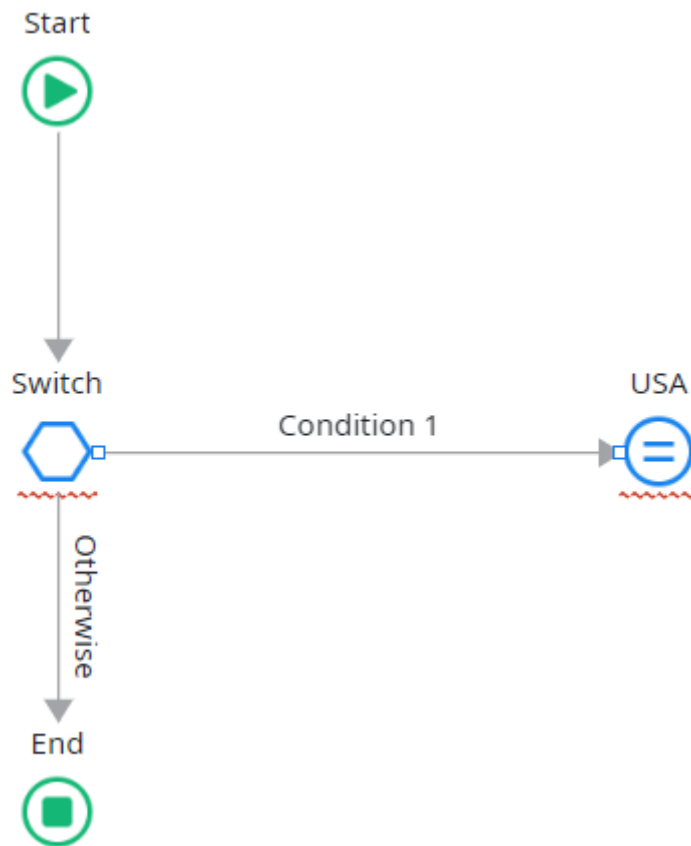


- 9) Set the **Value** to the required Email ID format for the "USA" location as follows.

```
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.

The screenshot shows the '1 (Location_US) ? Connector' properties window. It has two tabs: 'Properties' and 'Styles'. The 'Properties' tab is active. It contains two fields: 'Label' with the value 'Location_US' and 'Condition 1' which is currently empty and selected by a mouse cursor.

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

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

The image shows a 'Switch Value' dialog box. At the top, there is a text area containing the expression: `GetEmployees.List.Current.Employee.OfficeLocationId = Entities.OfficeLocation.us`. Below the text area, a green checkmark indicates 'The expression is ok (Type: Boolean)'. Underneath, there is a row of operators: `+`, `-`, `*`, `/`, `and`, `or`, `not`, `True`, `False`, `=`, `<>`, `<`, `>`, `<=`, `>=`, `()`, `[]`, and a `null` dropdown. Below the operators is a search bar labeled 'Search...'. To the left of the search bar is a tree view under the heading 'Scope'. The tree view shows a folder 'EmployeeDetails' which is expanded, showing sub-items: 'GetDepartments', 'GetEmployees', 'GetFirstEmployee', and 'GetJobTitles'. To the right of the search bar is a large text area labeled 'Description'. At the bottom left, there is a blue question mark icon. At the bottom right, there is a red 'Close' button.

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"
```

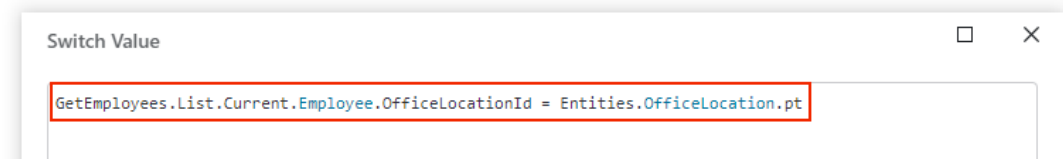
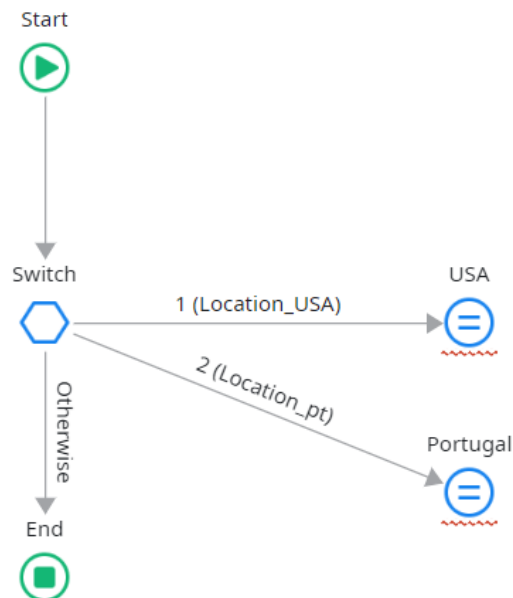
The image shows a 'Portugal Assign' dialog box. At the top, there is a header bar with a blue circle icon containing a white 'P' and a question mark, followed by the text 'Portugal Assign'. Below the header bar, there are two tabs: 'Properties' and 'Styles'. The 'Properties' tab is selected. Under the 'Properties' tab, there is a 'Label' field with the text 'Portugal'. Below the 'Label' field, there is a section titled 'Assignments'. In this section, there is a dropdown menu showing 'GetEmployees.List.Current.Employee.Email'. Below the dropdown menu, there is a text field containing the expression: `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:

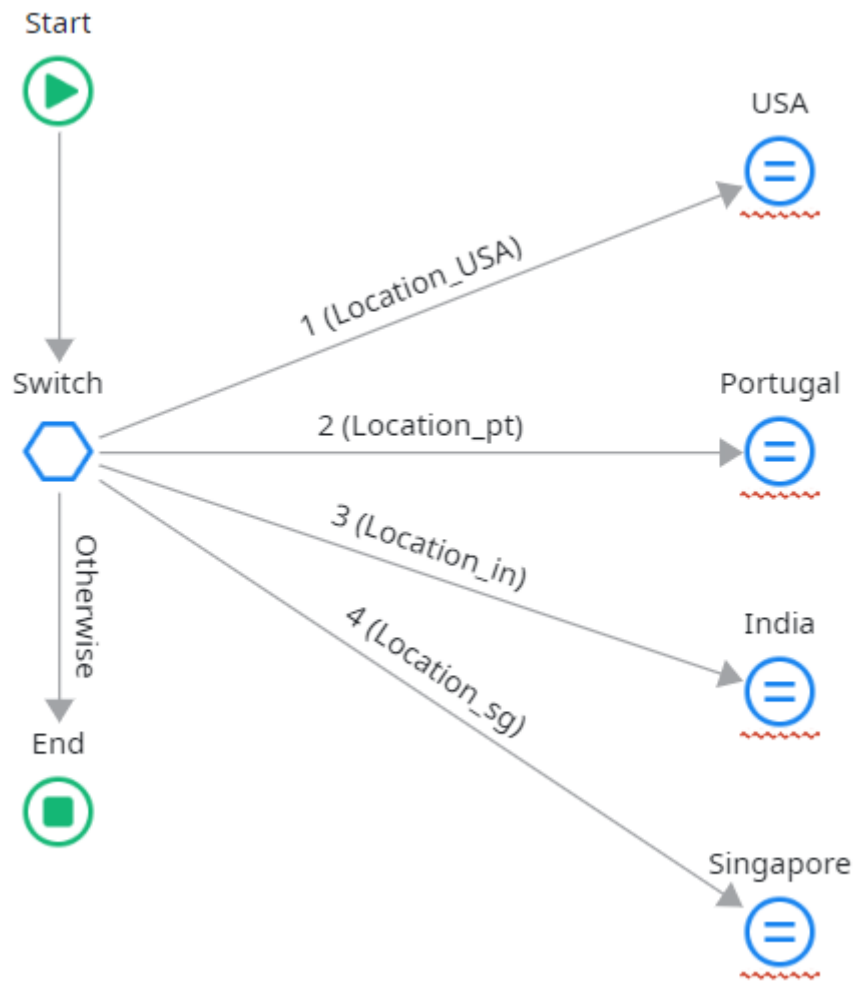
```
GetEmployees.List.Current.Employee.OfficeLocationId =
Entities.OfficeLocation.in
```

20) While the Singapore is:

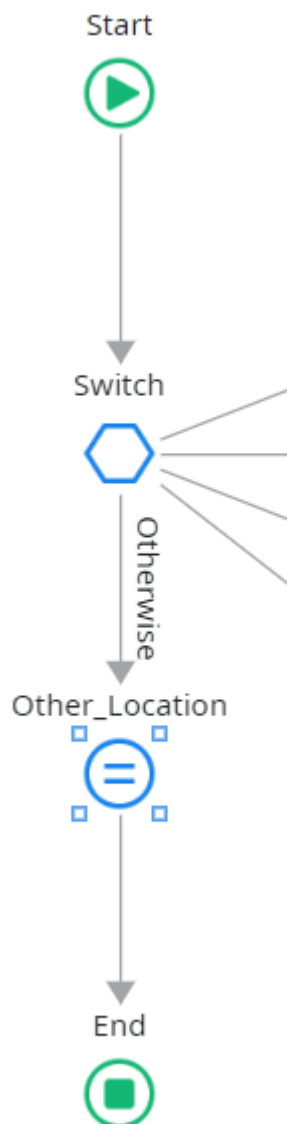
```
GetEmployees.List.Current.Employee.Email
= GetEmployees.List.Current.Employee.FirstName + "." +
GetEmployees.List.Current.Employee.LastName + "@acme.co.sg"
```

The **Condition** of the connector should be

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



21) Place another **Assign** on the Otherwise branch and label 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"
```

Others ?

Assign

Properties

Styles

Label

Others

Assignments

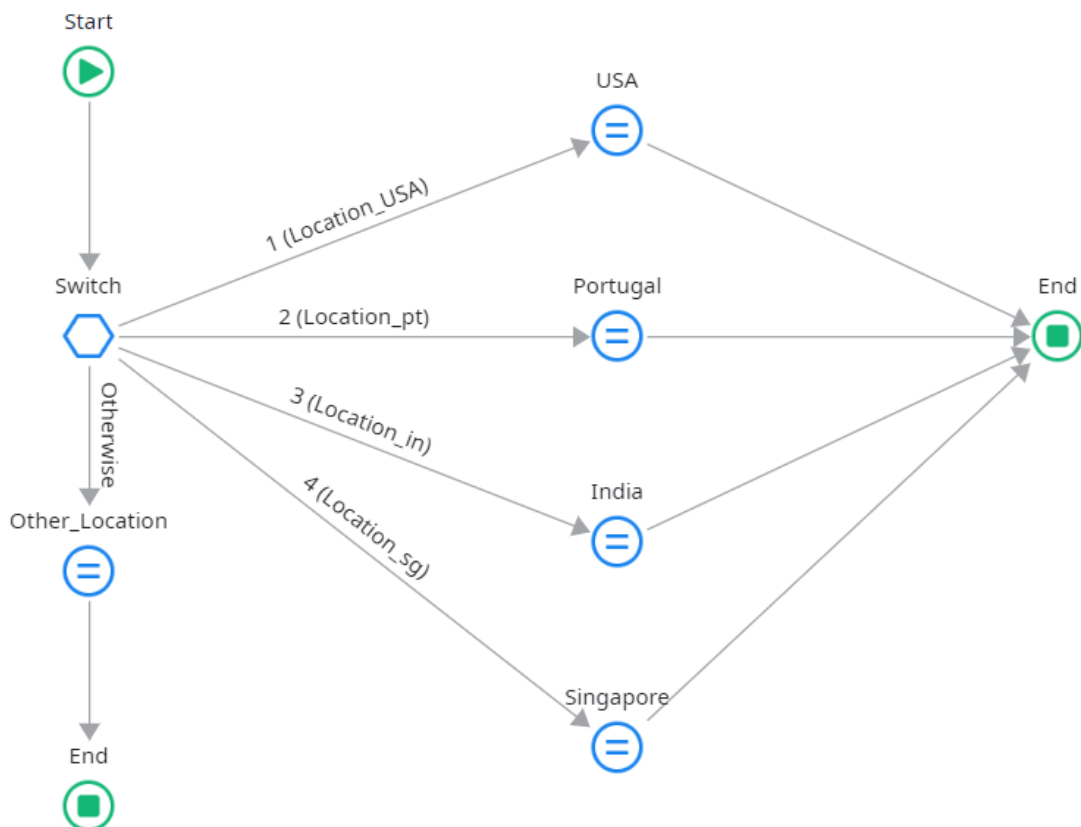
GetEmployees.List.Current.Employee.Email

x.y

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.



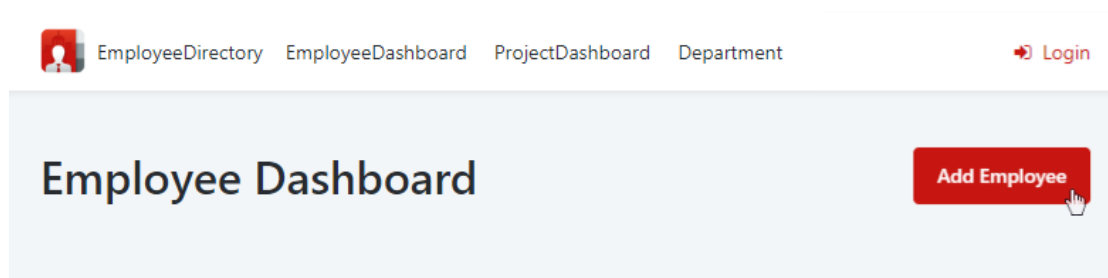
25) Publish the module to save these latest changes.



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.

A screenshot of the 'EmployeeDetails' form. The form is titled 'EmployeeDirectory' with a menu icon on the left. It contains several input fields: 'First Name' with the value 'Vihaan', 'Last Name' with the value 'Sumanth', 'Phone Number' with the value '9148033046', 'Email' with the value 'Vihaan.Sumanth@acme.co.in' (highlighted with a red box), 'Office Location' with a dropdown menu showing 'in', and 'Hiring Date' with the value '06-08-2024'. Each field has a red asterisk indicating it is required.

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