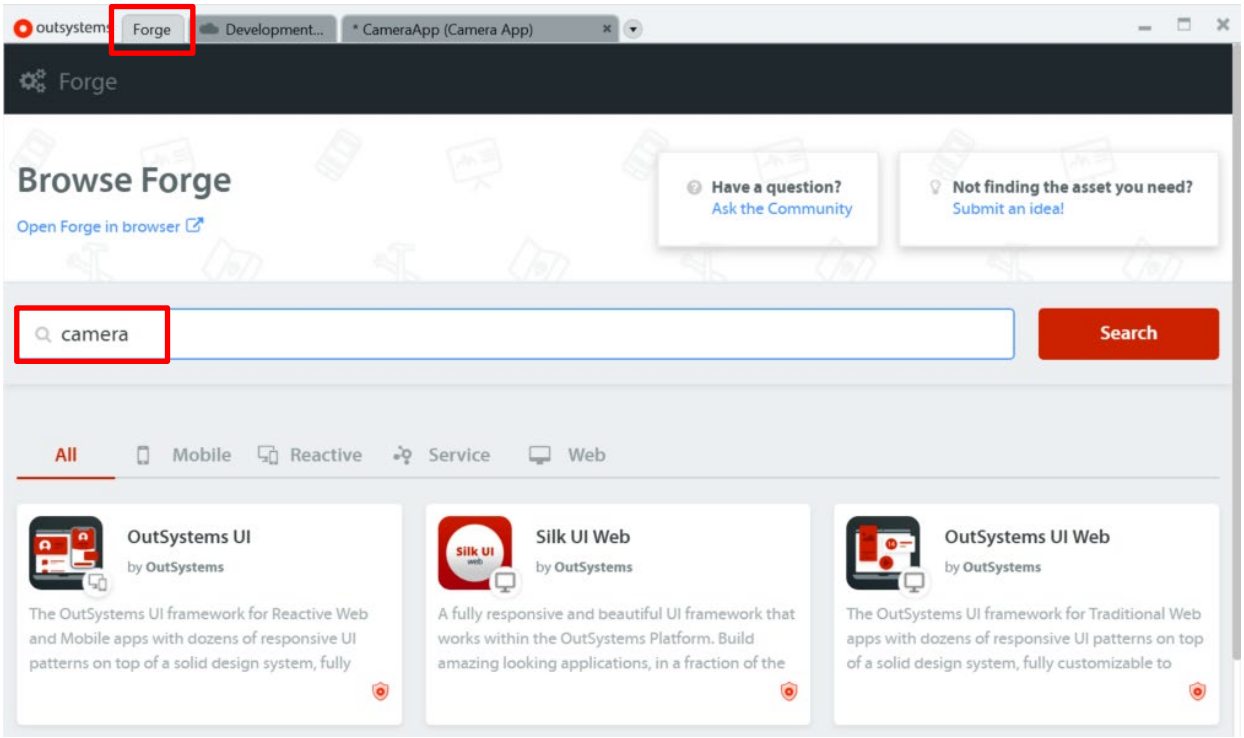
Outsystems Camera Plugins Lab Guide

Exercise 1: Camera App

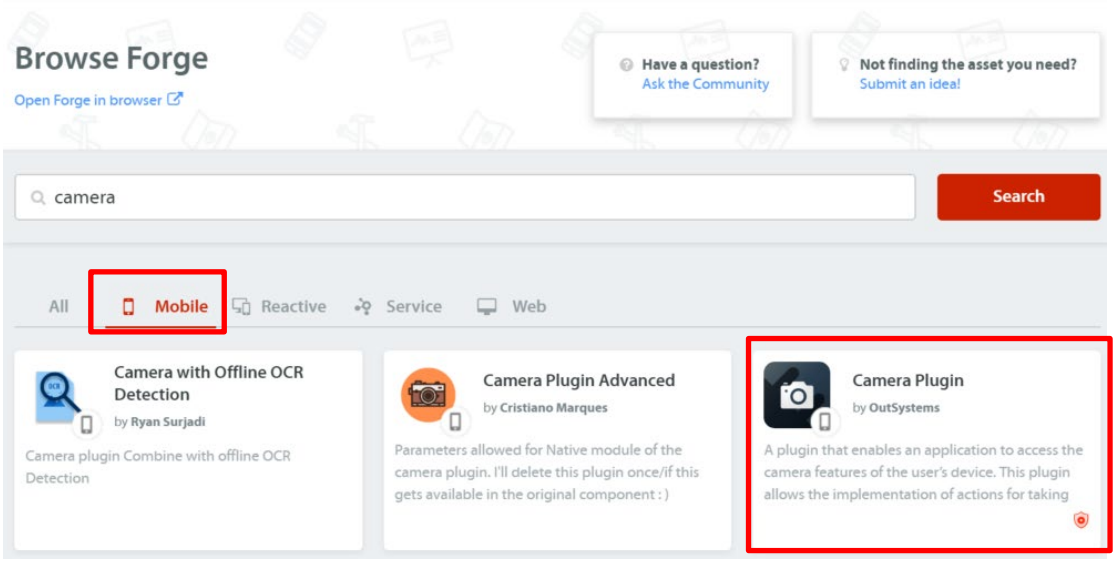
In this exercise, you will make use of the Camera Plugin to allow us to use the phone camera to capture image.

1. Create a new mobile application named **Camera App**, with a **Phone App** Module
    a. In the 'Applications in Development' area, click **New Application**.
    b. In the **New Application** dialog, select **From scratch**, and then click **Next**.
    c. Select the **Phone App** template, and then click Next. The templates provide a starting point for the application, containing the layout structure for the mobile app.
    d. Set the Application Name to ***Camera App***.
    e. Type in a simple description for the application.
    f. Select **Create App**.
    g. In the **Modules** area, the list of modules of the application can be found. Specify the **Module Name** as **CameraApp** and select the **Phone App** module type. Click **Create Module** to create the module.

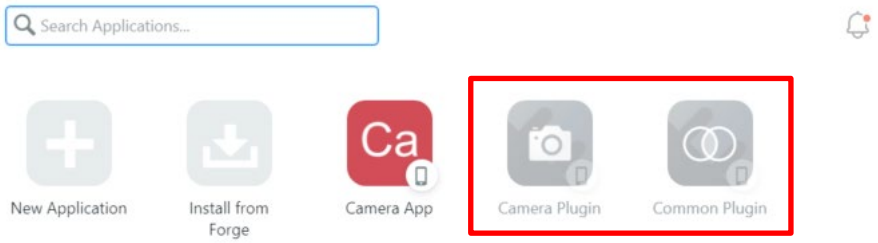
2. Click on the **Forge** tab as shown. Type Camera in the "Search in Forge…" input box, and click on Search button.



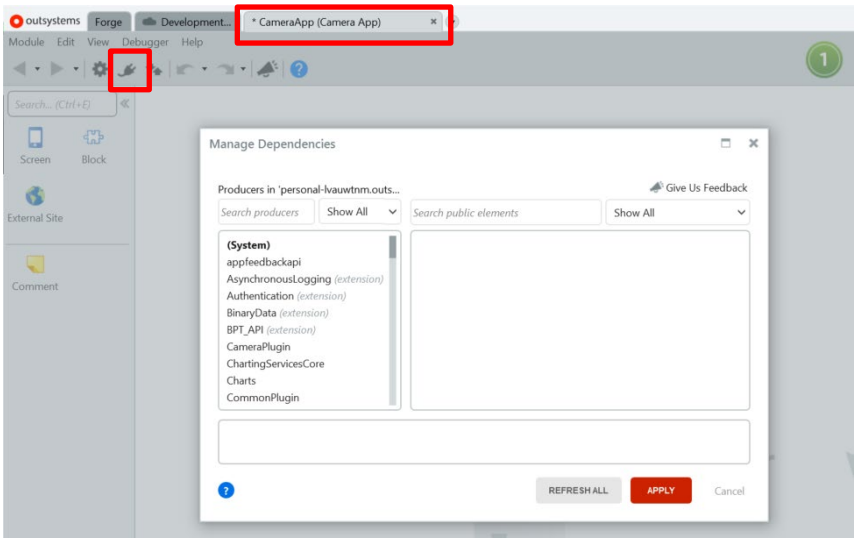
3. Click on the Mobile tab to select only plugins that are applicable for mobile apps. Click on Camera Plugin to select the plugin.



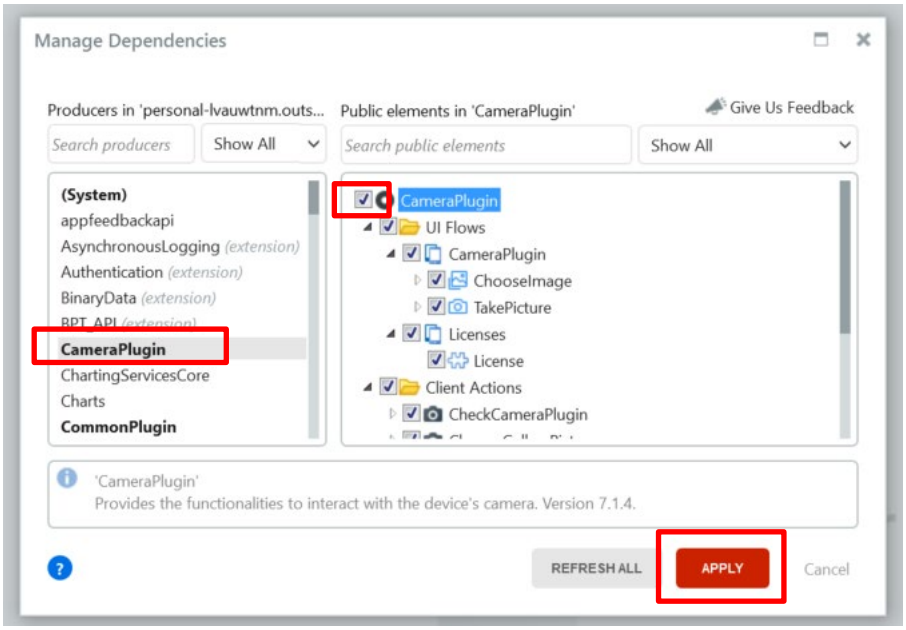
4. Click on "**Install…**" to install the Camera plugin. Note: You may need to click on Install twice. You will notice that both **Camera Pugin** and **Common Plugin** will be added to the development workspace.



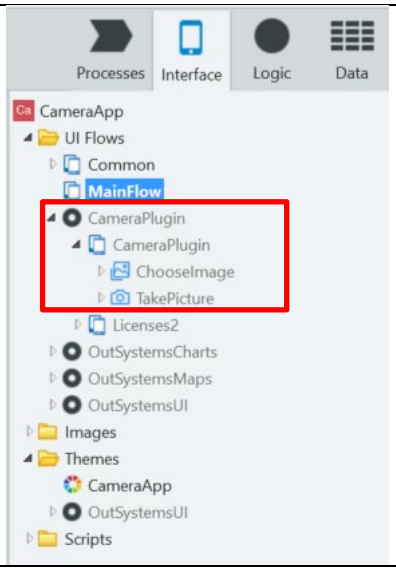
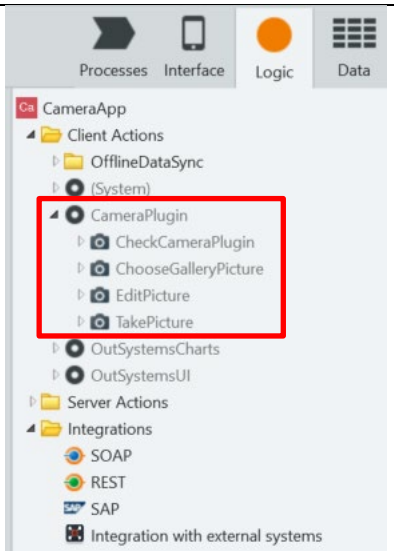
5. Switch back to the CameraApp, and click on the Manage Dependency icon.



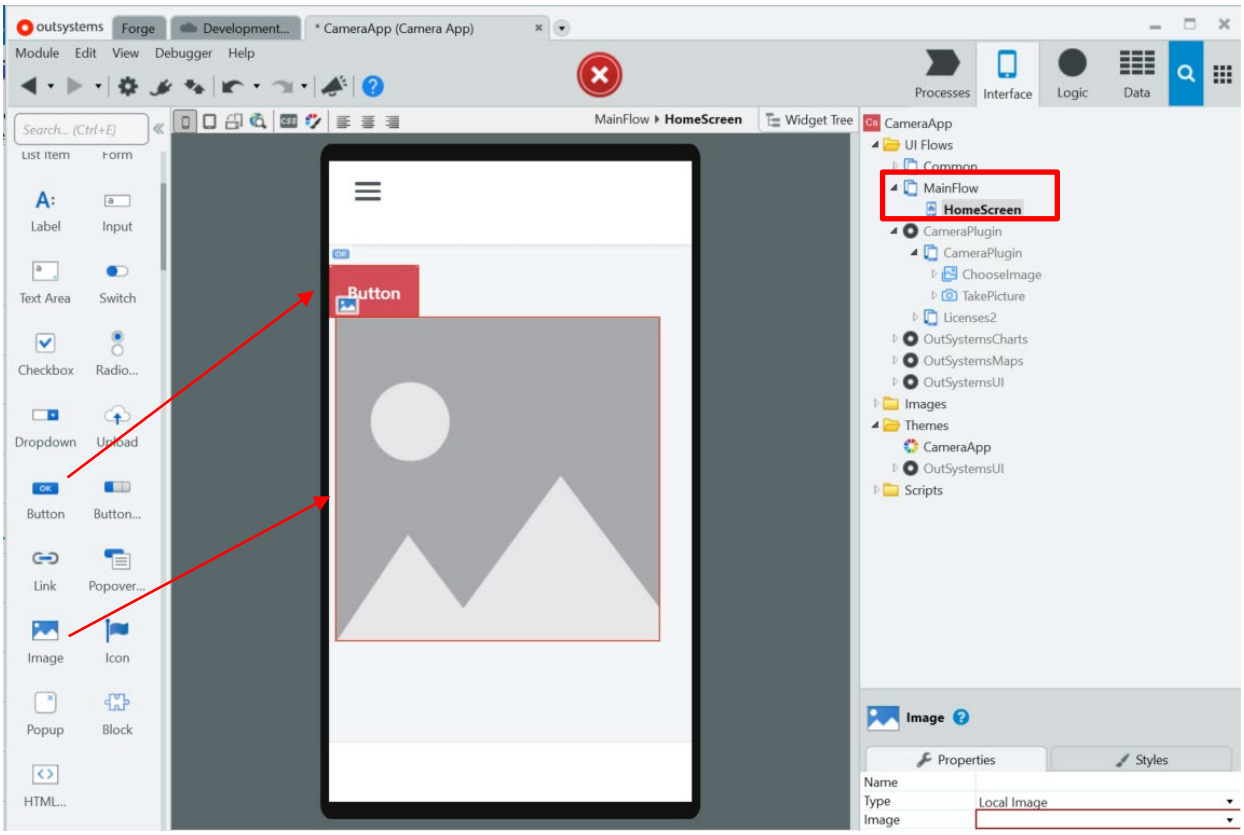
6. Select **Camera Plugin** from the left panel, click on the checkbox to select all items for the camera plugin. Click on **Apply** button.



7. You will notice some additional items created in both the **Interface** and the **Logic** tab after you have added the Camera Plugin dependency to your project. You will see how these items are used later on to enable the use of camera in your app.

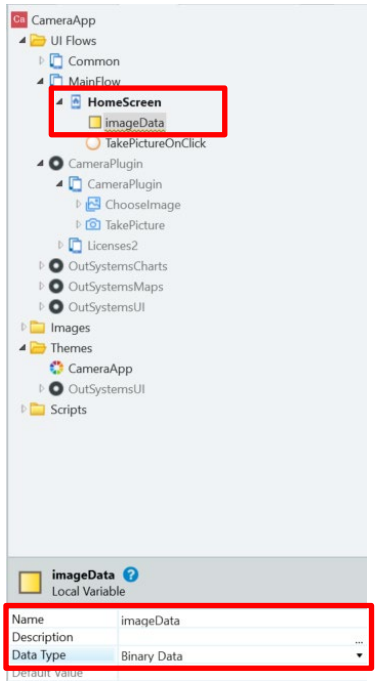
	
Interface Tab	Logic Tab

8. Click on the Interface tab, add a new Screen to the MainFlow, name the new screen as **HomeScreen**. Add a Button and an Image to the HomeScreen as shown. Ignore the Errors for now.



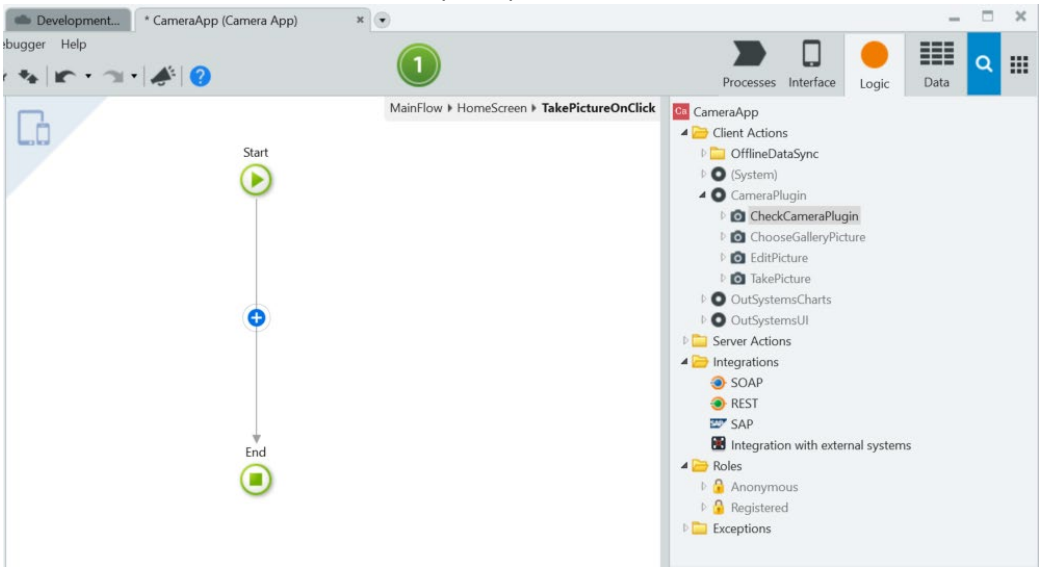
9. Select the Button:
    a. Change its Text to “TAKE PICTURE”.
    b. Add a new **Client Action** for the On Click event. The new Client Action will be named as **TakePictureOnClick** by default.

10. Create a new Local Variable with the following properties.
    a. Name: imageData
    b. Data Type: Binary Data

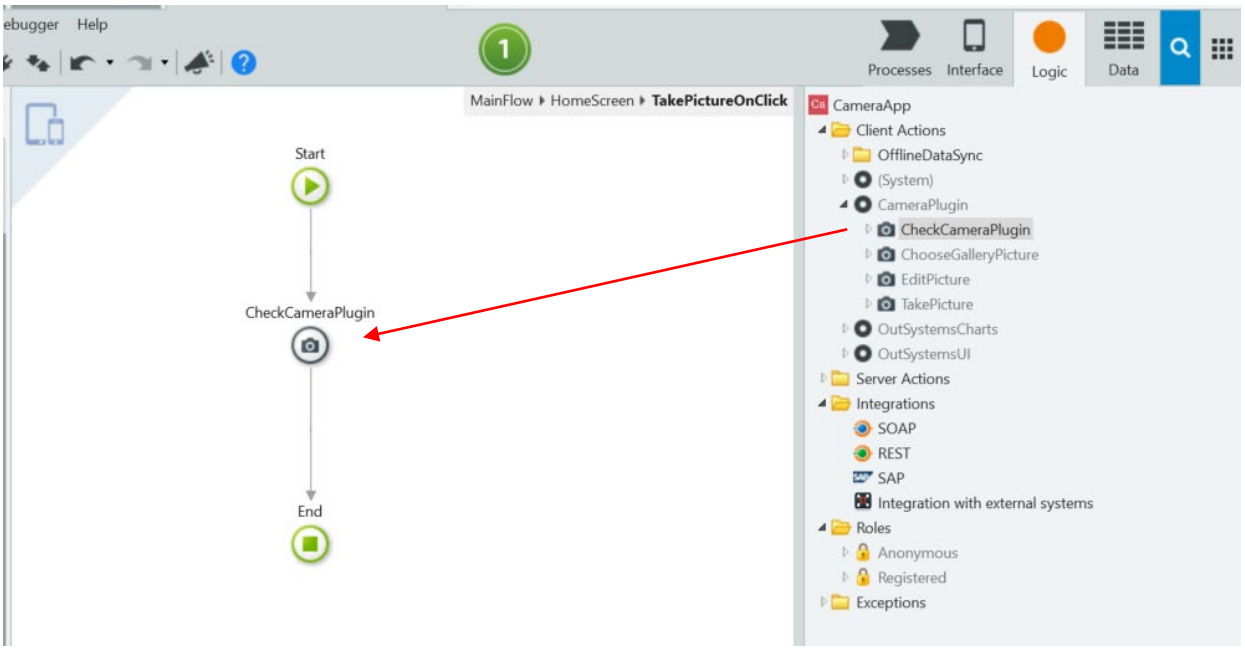


11. Click on the Image in the HomeScreen. Change the following properties for the Image.
    a. Type: Change from Local Image to **Binary Data** from the Dropdown list**.**
    b. Image: Select **User** from the Dropdown List.

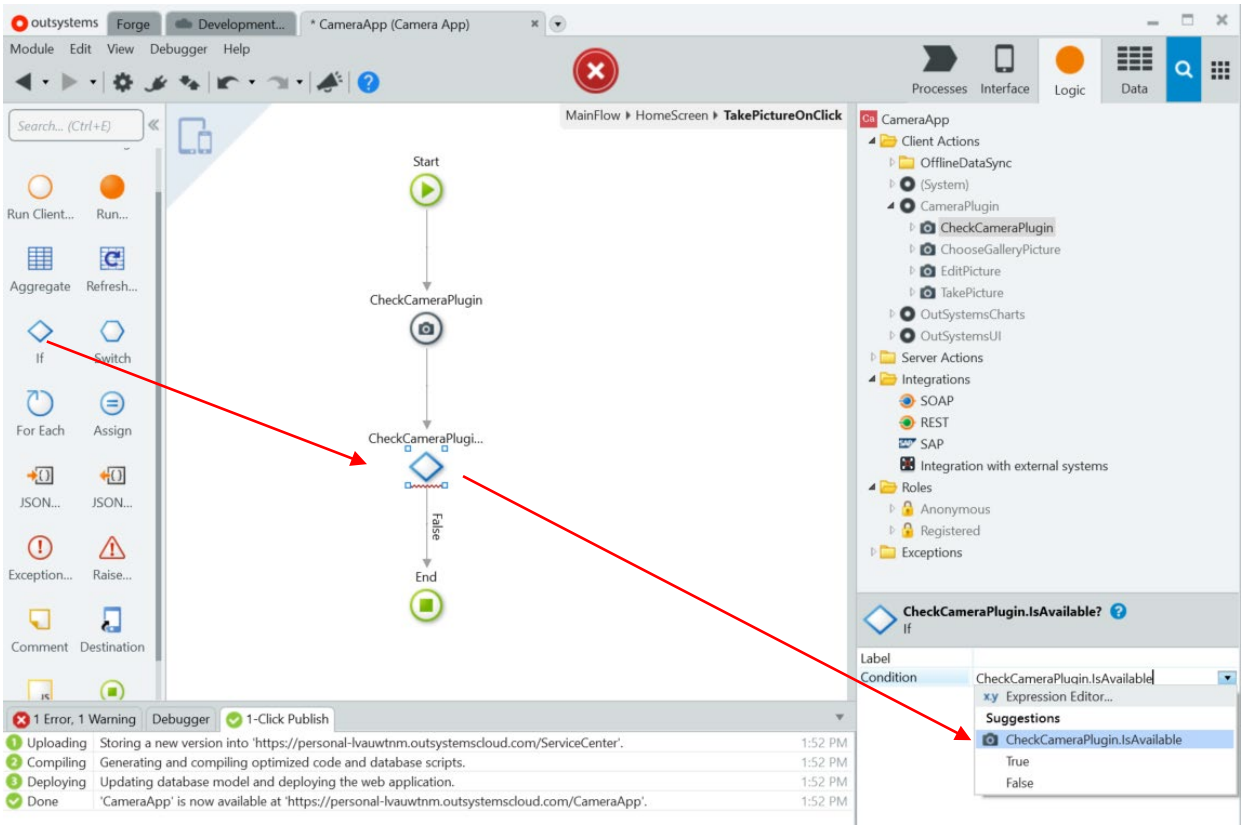
12. Click on **TakePictureOnClick** action to open up the workflow view.



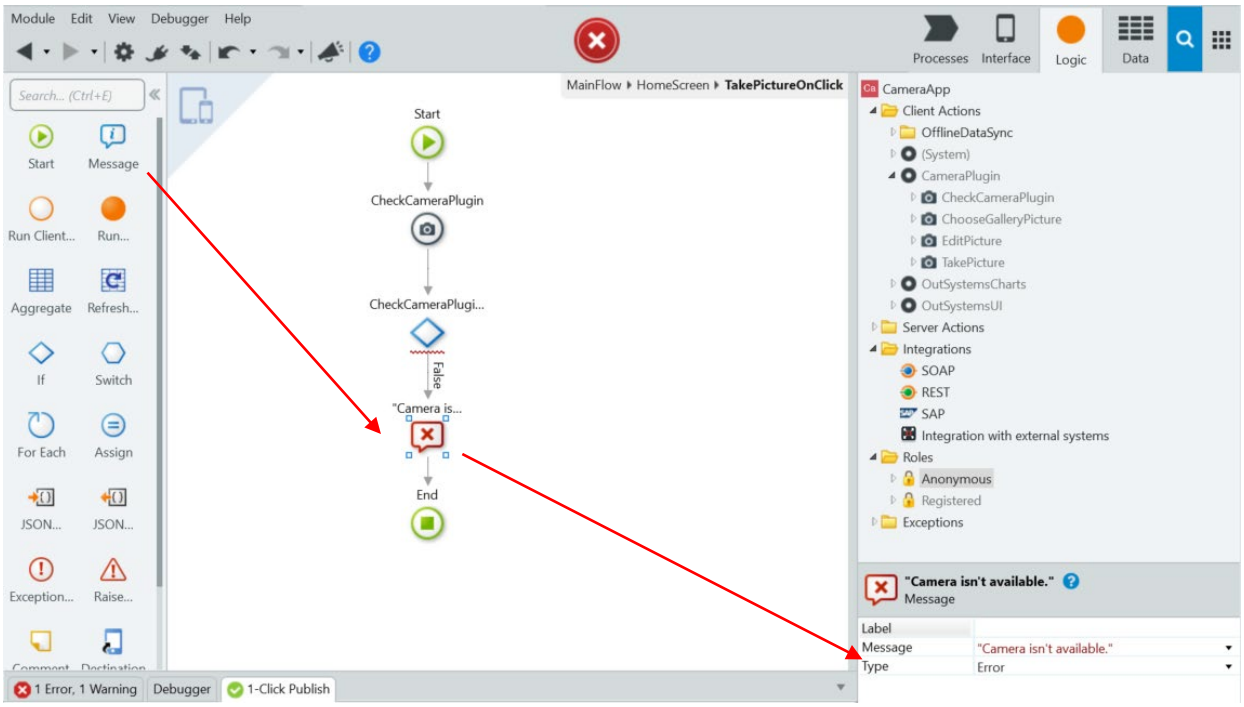
13. Click on the Logic tab, drag the **CheckCameraPlugin** action to the workflow as shown.



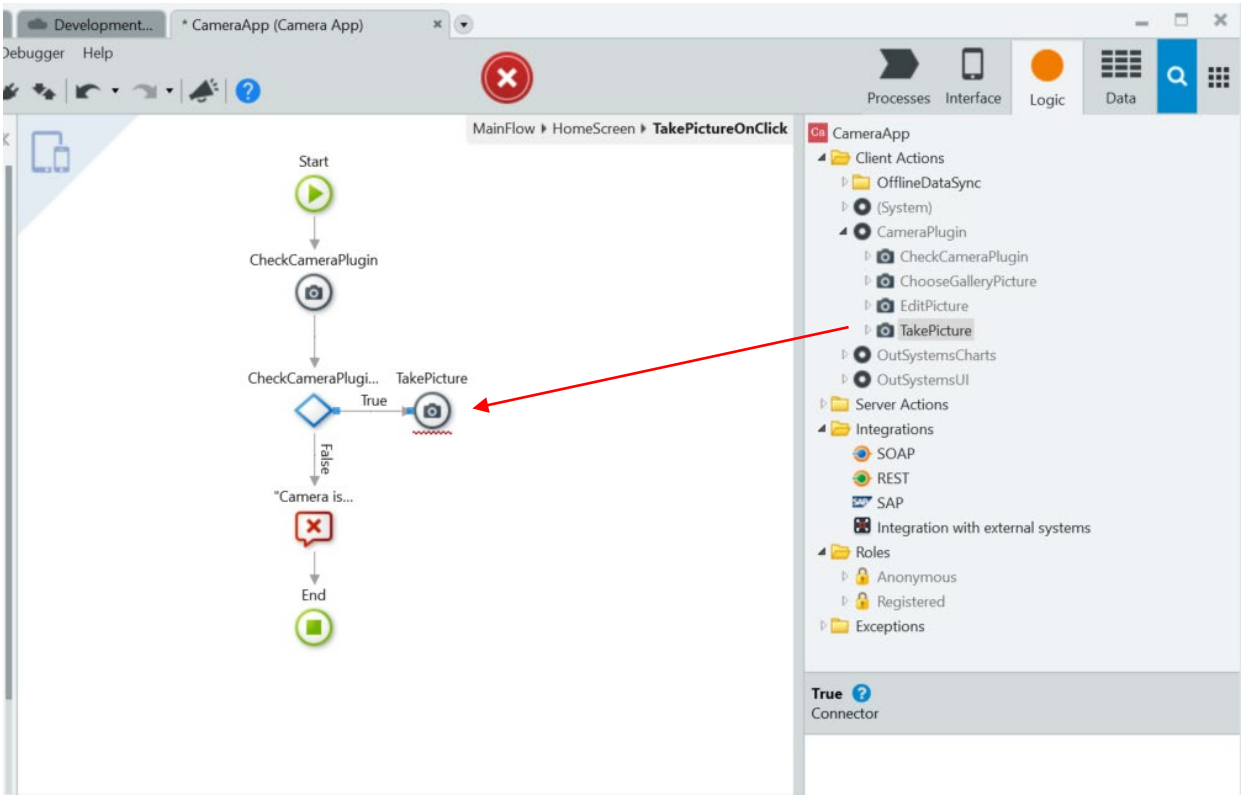
Condition: CheckCameraPlugin.IsAvailable



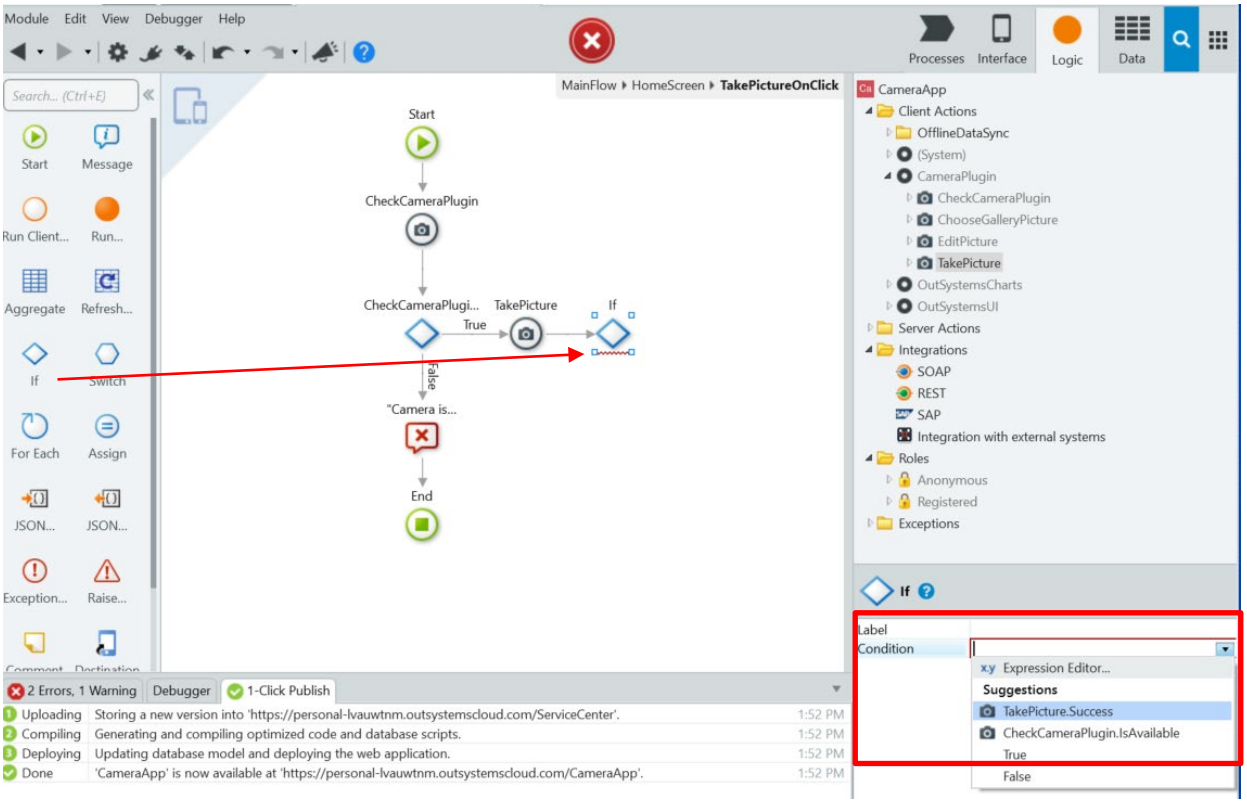
15. Drag a message action to the workflow, and change the properties to the following:
    a. Message: **“Camera isn’t available.”**.
    b. Type: **Error**



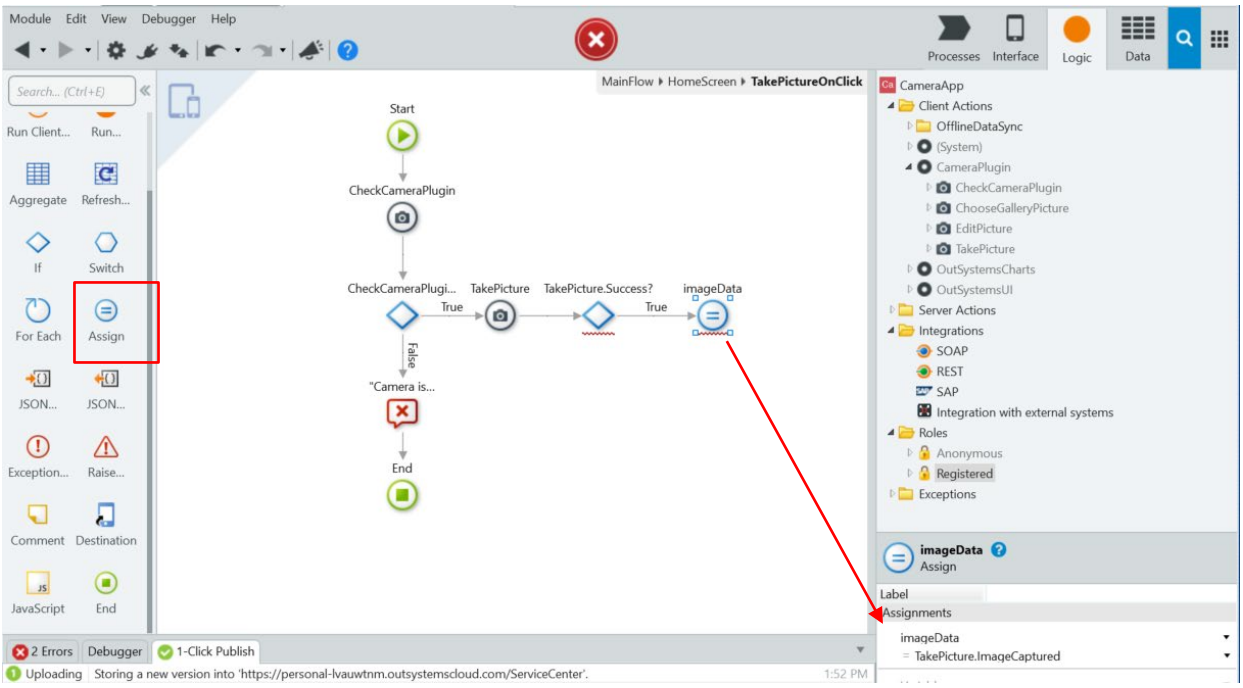
16. Drag the **TakePicture** action and place it next to the **CheckCameraPlugin if** condition. Join the **TakePicture** action with the **CheckCameraPlugin if** condition.



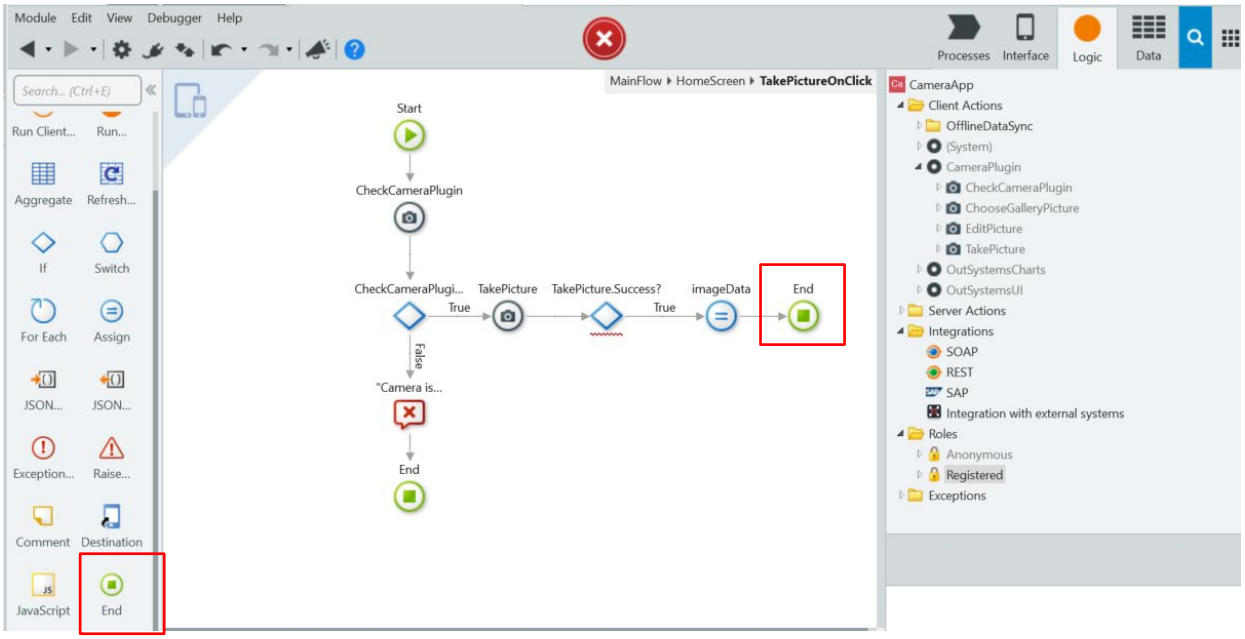
17. Drag the if condition and place it next to the TakePicture action.
    Set the condition to **TakePicture.Success**.



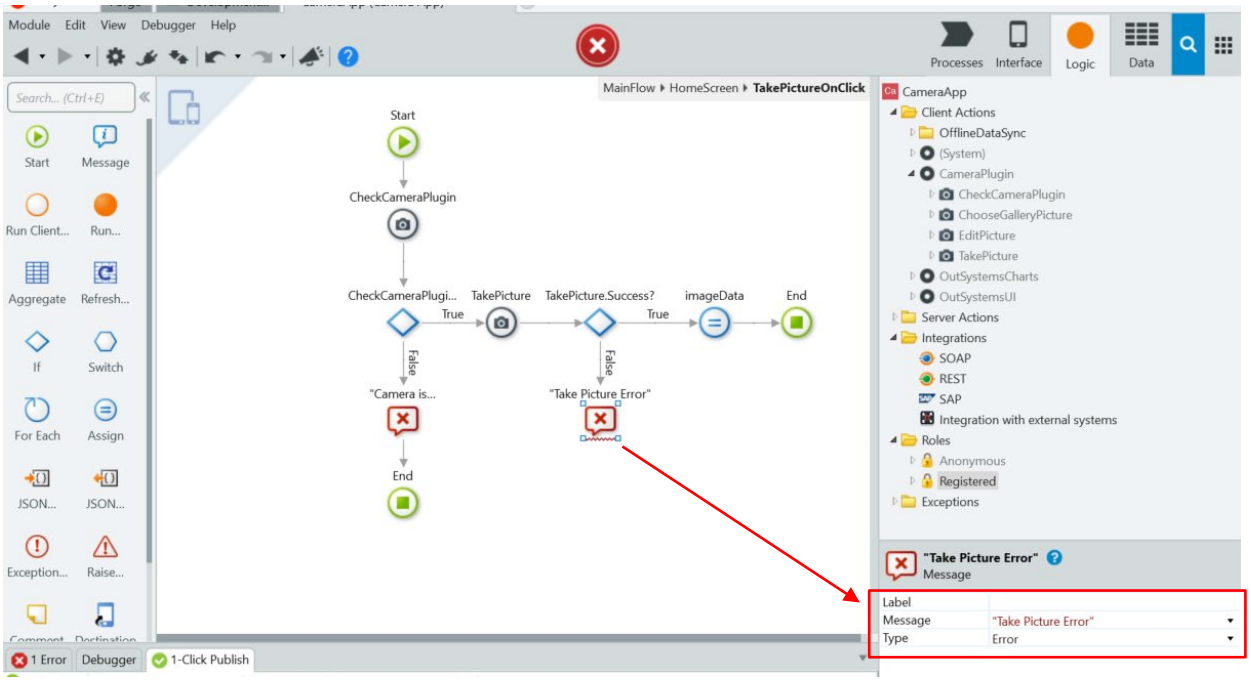
18. Drag the Assign action and place it next to the TakePicture.Success if condition. Set the following properties for the Assign action.
    a. Variable: imageData
    b. Value: TakePicture.ImageCaptured



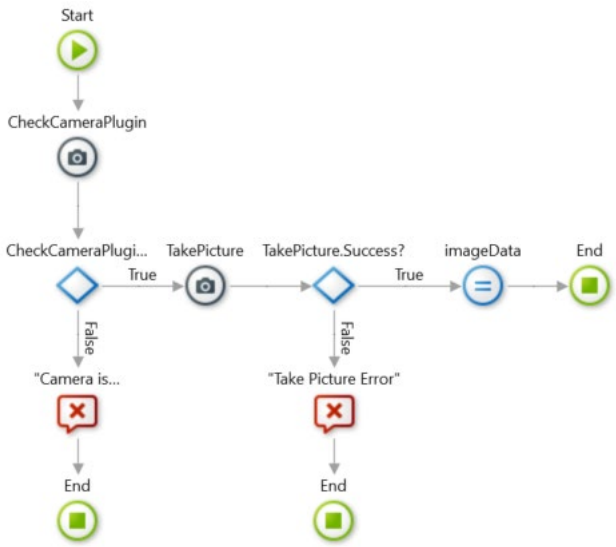
19. Drag the End action, and place it next to the Assign action as shown.



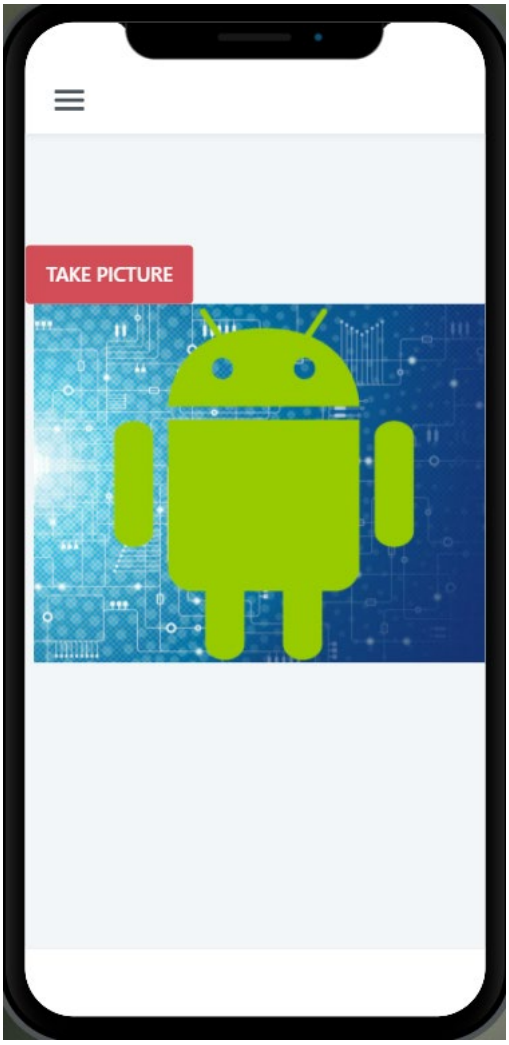
20. Drag a message action to the workflow and place it below the **TakePicture.Success if** condition, and change the properties to the following:
    a. Message: **"Take Picture Error!"**.
    b. Type: **Error**



21. Add another End action just below the Message action. This will fix all error and complete the workflow. The final workflow is as shown below.



22. You may click on the 1-Click Publish button to update and test the app. You will be able to choose an image from your laptop, and see the chosen image as shown below. Alternatively, you may also test the app as a PWA , and use your phone to do the testing. You will be able to use your phone camera to take a picture in this case.



End of Lab 6