# LoginUser Mobile Application Lab Guide

Exercise 1: Importing Data (Recap) and Adding UserId Attribute

In this exercise, you will create a new application that requires users to login to the mobile app.

1. Create a new mobile application named **Login User App**, with a **Phone App** Module
   a. In the 'Applications in Development' area, click **New Application**.

New Application   Install from Forge
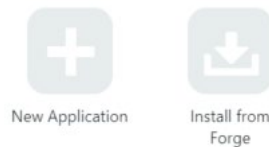
   b. In the **New Application** dialog, select **Start from scratch**, and then click **Next**.
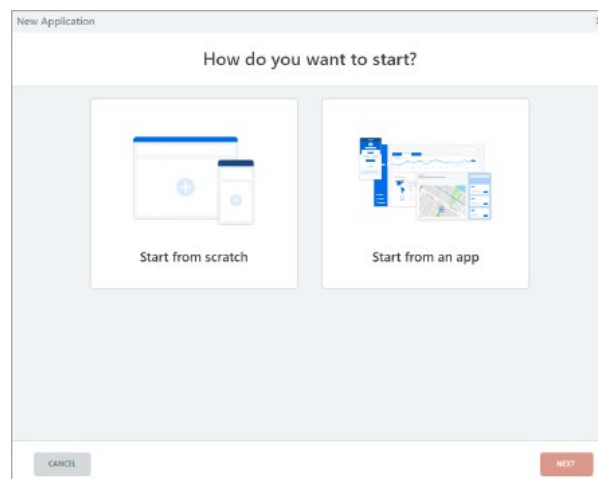
   c. Select the **Phone App** template, and then click Next. The templates provide a starting point for the application, containing the layout structure for the mobile app.
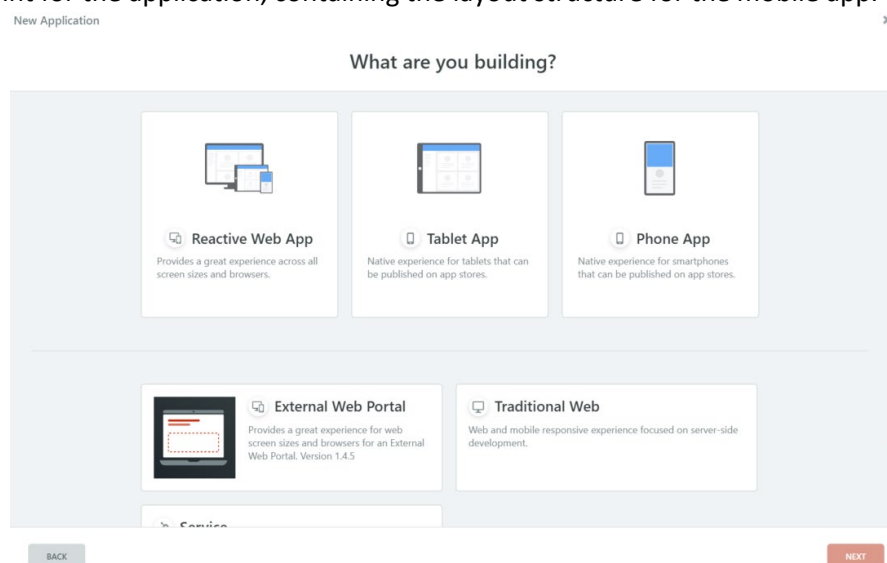

   d. Set the Application Name to *Login User App*.
   e. Type in a simple description for the application.

f. Select **Create App**.

g. In the **Modules** area, the list of modules of the application can be found. Specify the **Module Name** as **LoginUserApp** and select the **Phone App** module type. Click **Create Module** to create the module.


h. Notice that the application is created and the module is opened. You should see the workspace as shown below.
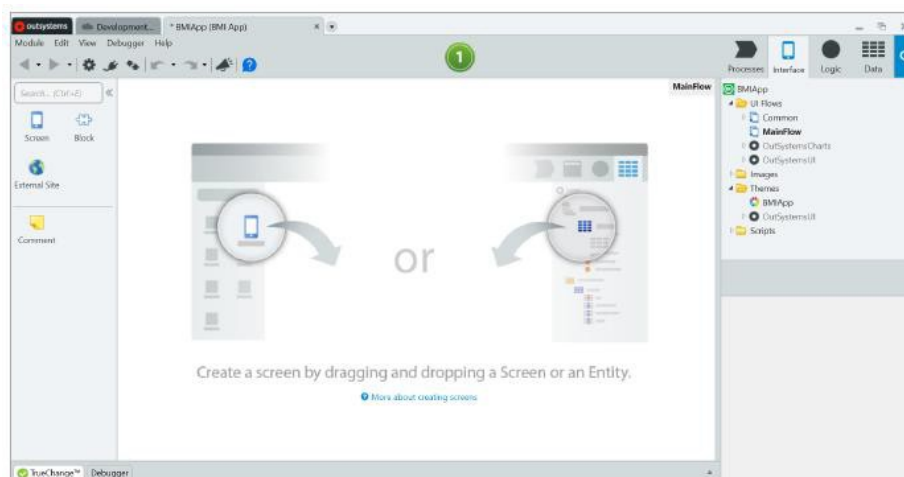
i.   Open the **handphone.xlsx** file given to you to look at the content of the file. We are going to import the data in the Excel file into the app later.

|	A	B	C	D
1	model	OS	ImageName	price
2	xiao mi	android	android.png	500
3	iphone	ios	apple.png	1400
4	ipad	ios	apple.png	700
5	note 5	android	android.png	800
6	huawei pro 30	android	android.png	1200

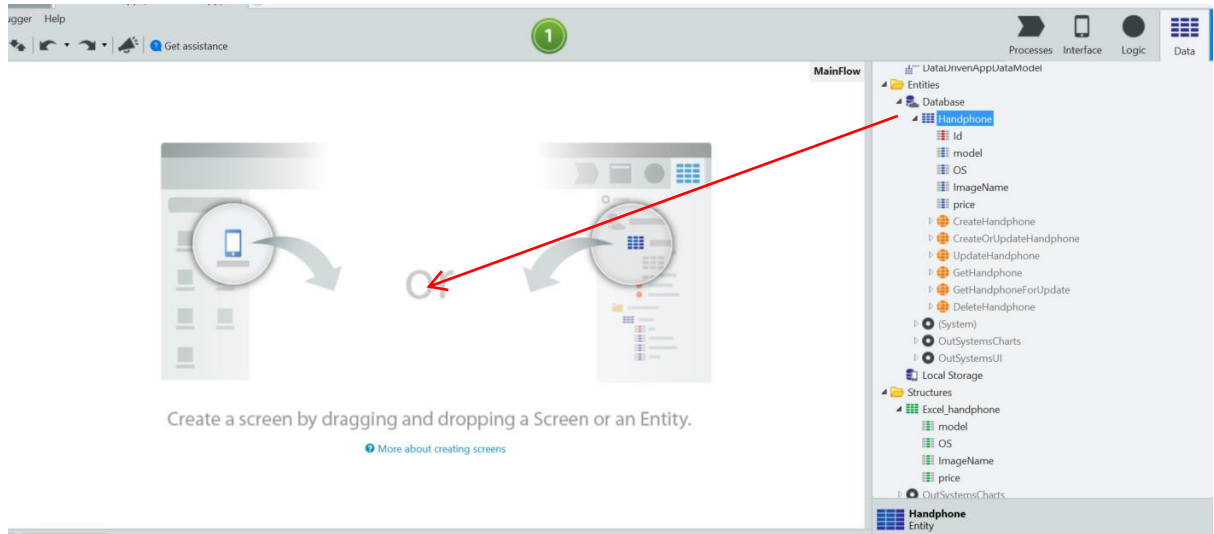j.   In the **Data** Tab, right-click on entities, and select **Import New Entities from Excel…**
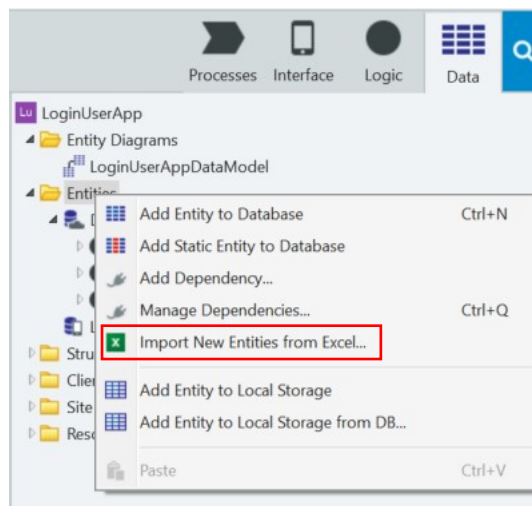
k.   Select **handphone.xlsx** file given to you, and click on the **Open** button. Click on the **IMPORT** button to import the Excel file into the project.
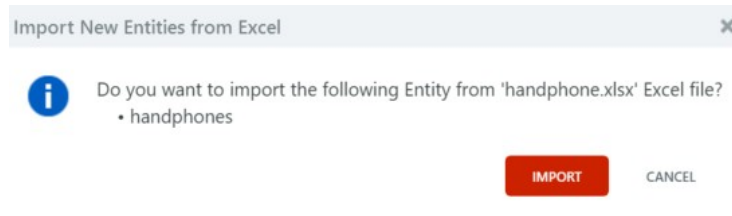
l.   Under the Database, you will see a **Handphone** entity with its attributes and some helper database methods.
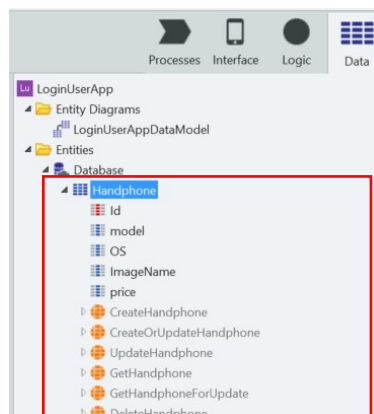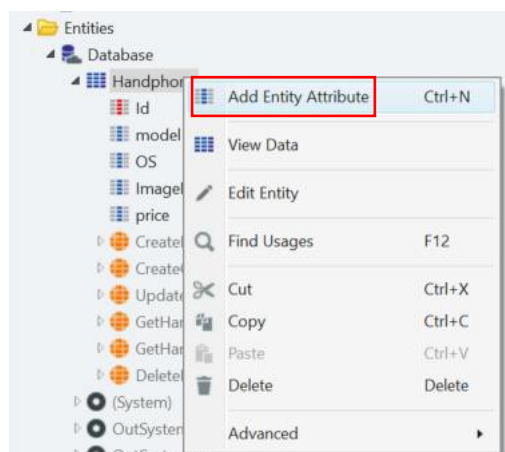
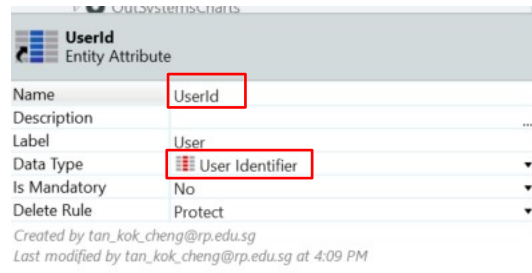2. Drag the **Handphone** entity into the centre region of the workspace.

3. Two screens will be created using the data in the **Handphone** entity.
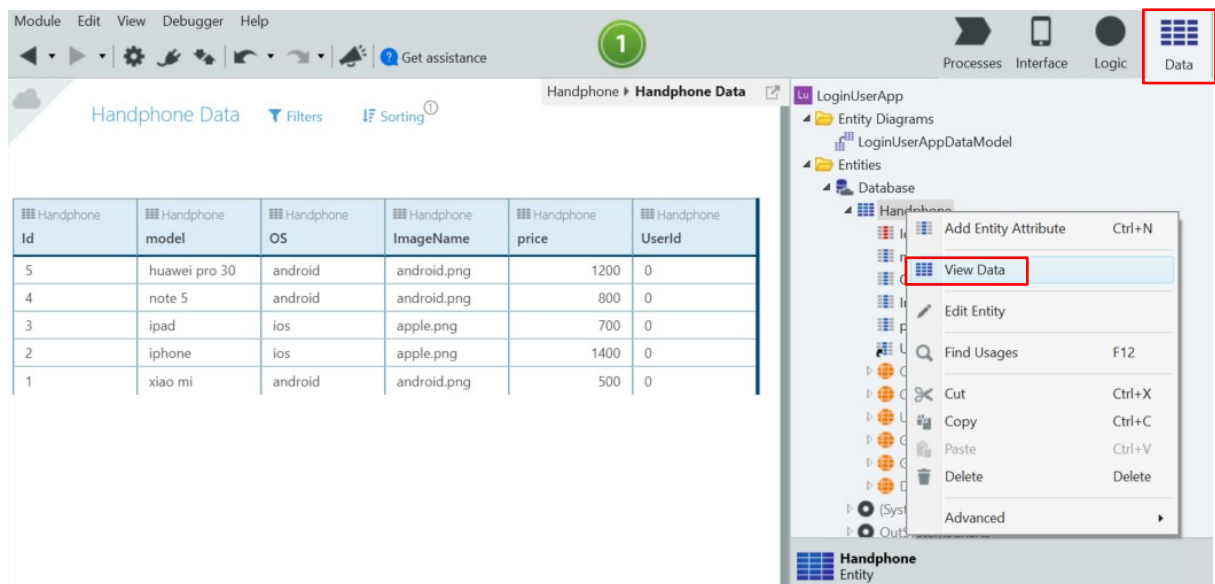   a. Handphones
    b. HandphoneDetail

4. Select the Data tab, right-click on the Handphone Entity, and select **Add Entity Attribute**.

5. Rename the **Attribute1** to **UserId**, and change the **Data Type** to **User Identifier**.
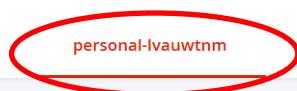

6. Go to the **Data** tab, right-click on the Handphone entity, and select **View Data**. You will notice that all the UserId will currently have a value of 0.


7. Go to https://<personalenvironment>.outsystemscloud.com/Users to create the a few users.
Note: If you can't remember what is your personal environment, go to
https://www.outsystems.com/ and you will be able to get the required information.

8. In order to save the login user's Id to the Handphone entity, we will need to update the **SaveDetail** Client Action. Click on the Interface tab, expand the **HandphoneDetail** screen under the MainFlow, double click on SaveDetail.
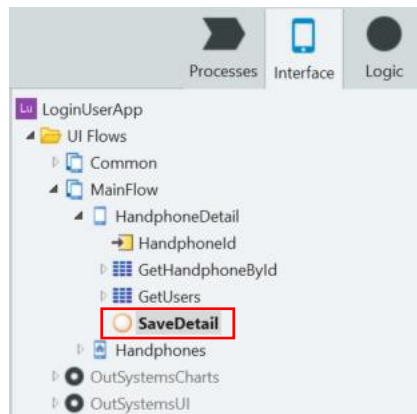
9. Add an **Assign** widget just before the **HandphoneCreateOrUpdate** server action.
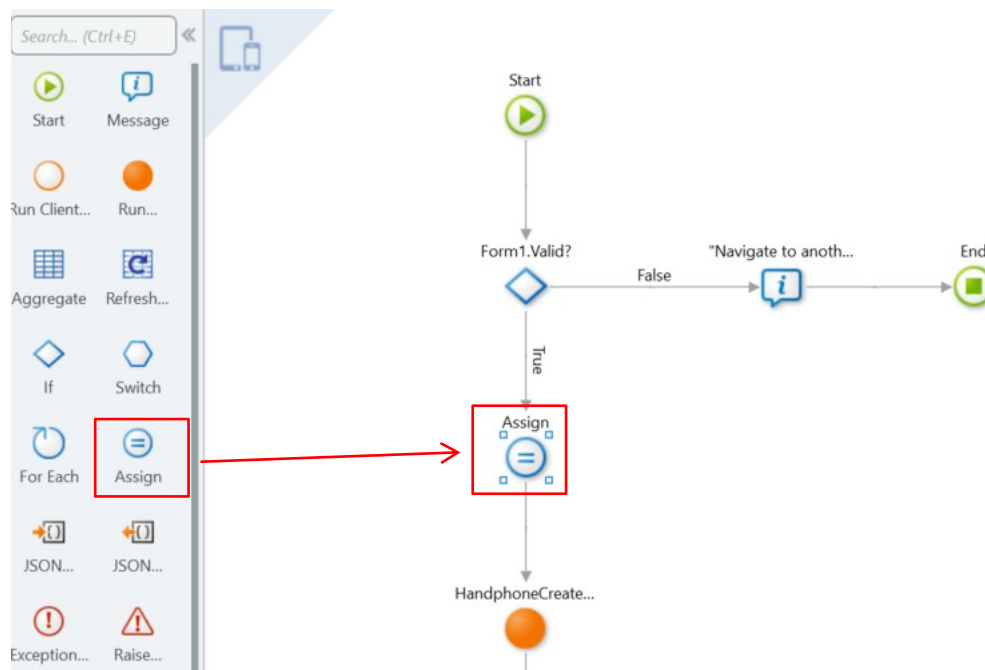
10. Select the Assign widget that we have just added, set the variable and value to the following:
    Variable: **GetHandphoneById.List.Current.Handphone.UserId**
    Value: **GetUserId()**

11. You may click on the [1] 1-Click Publish button to update and test the app.
    i.   You will be prompted to login, you may login with any of the user id that you have created earlier on.

ii.   Select any of the existing item from the Handphone List screen. Click on the Save button in the Edit Handphone screen.

iii.   Go back to the OutSystem Service Studio, and click on the Data tab. Right-click on the **Handphone** Entity and select **View Data**. You should notice that one of the UserId record should be updated, and it should have a non-zero value.

Exercise 2: Filtering Data based on User Id

Currently, you are able to see all the entries in the Handphone entity. The information is not filtered based on the login user. In this exercise, we are going to limit the access to the information in the Handphone entity, so that the login user can only view and edit their own data.

1. Under the **Interface** tab, select and expand the **Handphones** screen to show its content. Double click on the **GetHandphones** aggregate.
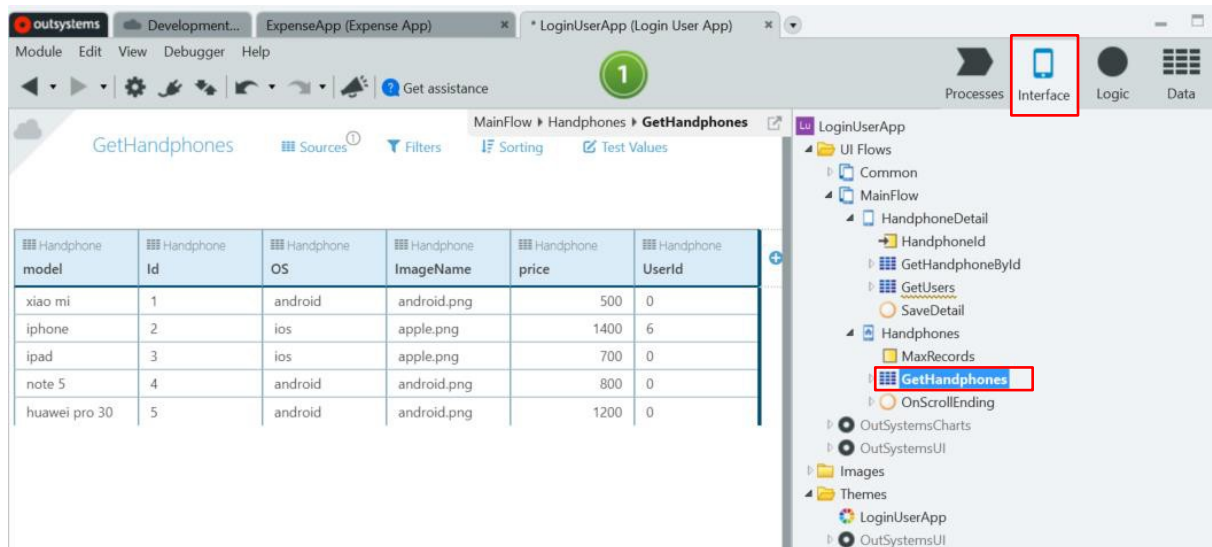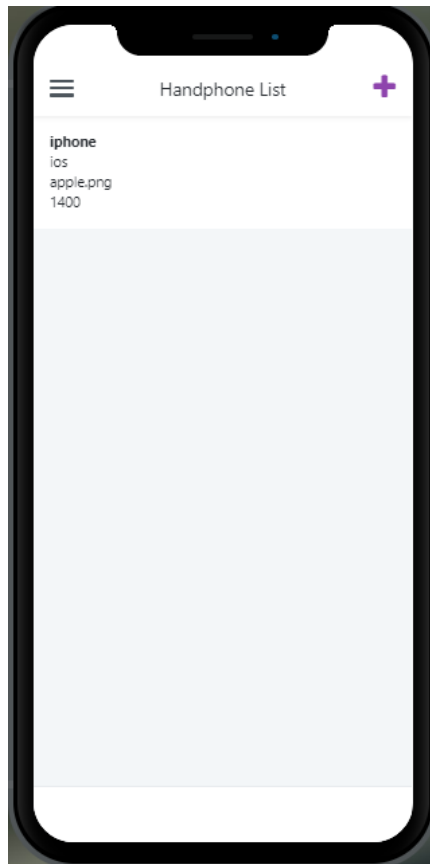

2. Click on the **Filters** tab, and the **Add Filter** button. Enter the following condition in the dialog shown:

    Handphone.UserId = GetUserId()
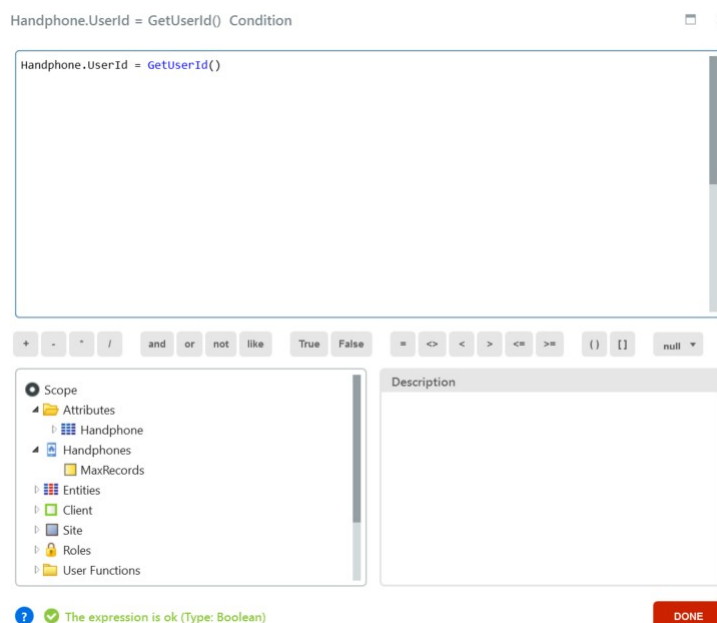
3. You may click on the ![1] 1-Click Publish button to update and test the app. You will see that you will only be able to see the entry that is associated with your User ID.

End of Lab 4