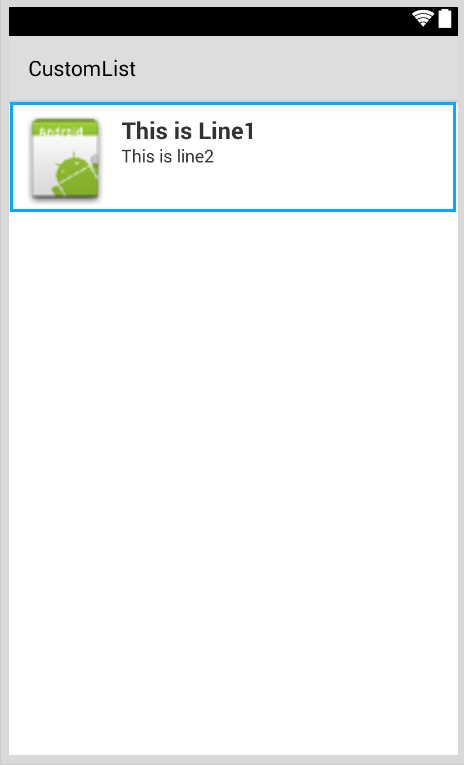
**Learning Outcomes**

1. Custom ListView Control

**Custom ListView**

One of the most common controls in Android apps, to represent list of data with pics and Info.Design customrow.axml or add it from the commons folder. The custom row denotes a single row in a list.



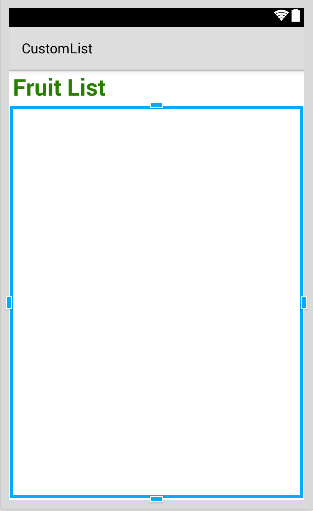
Image

Text2

Text1

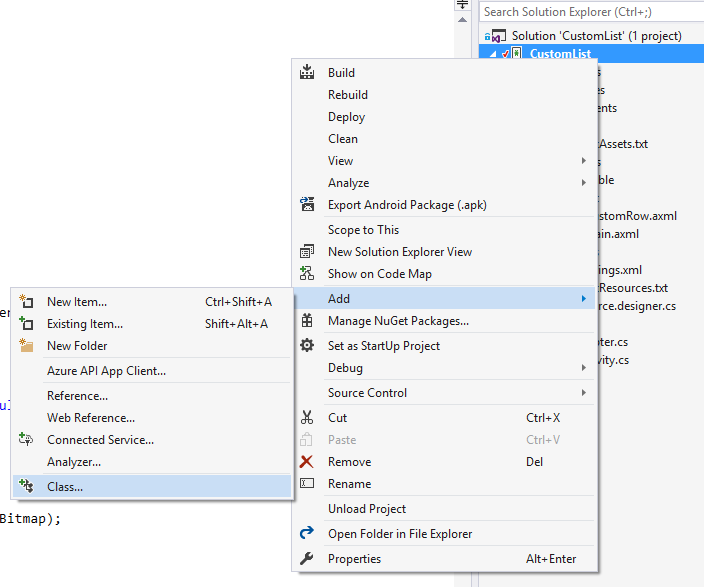
<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout\_width="fill\_parent"  
    android:layout\_height="wrap\_content"  
    android:padding="8dp">  
    <ImageView  
        android:id="@+id/Image"  
        android:layout\_width="80dp"  
        android:layout\_height="80dp"  
        android:layout\_alignParentLeft="true"  
        android:layout\_marginRight="8dp"  
        android:src="@drawable/icon" />  
    <TextView  
        android:id="@+id/Text1"  
        android:layout\_width="wrap\_content"  
        android:layout\_height="wrap\_content"  
        android:layout\_alignTop="@id/Image"  
        android:layout\_toRightOf="@id/Image"  
        android:layout\_marginTop="5dip"  
        android:text="This is Line1"  
        android:textSize="20dip"  
        android:textStyle="bold" />  
    <TextView  
        android:id="@+id/Text2"  
        android:layout\_width="fill\_parent"  
        android:layout\_height="wrap\_content"  
        android:layout\_below="@id/Text1"  
        android:layout\_marginTop="1dip"  
        android:text="This is line2"  
        android:textSize="15dip"  
        android:layout\_toRightOf="@id/Image" />  
</RelativeLayout>

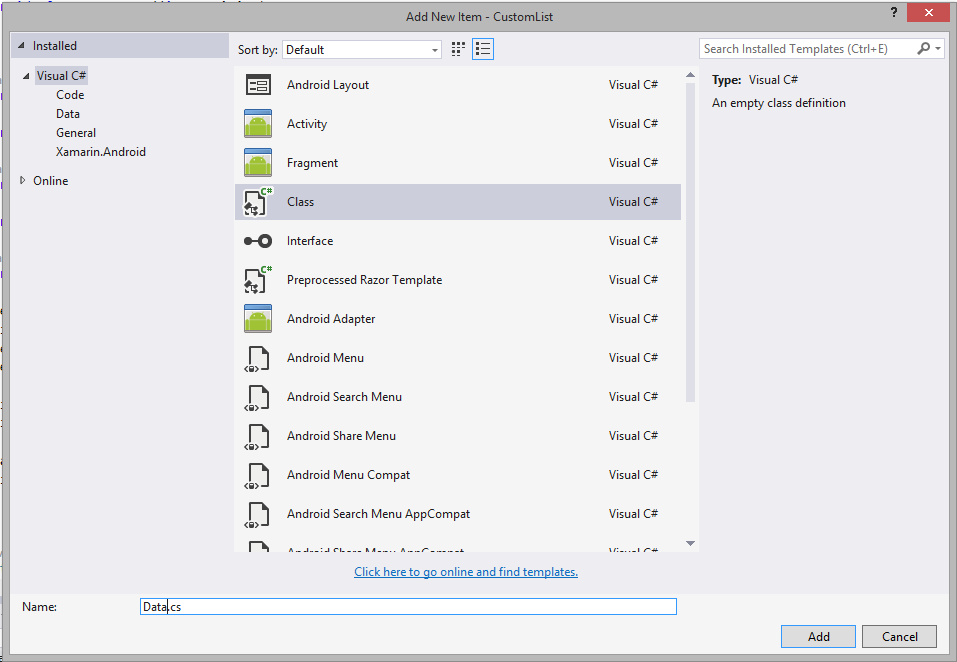
Then you can design your main.axml, which contains the header and a listview.

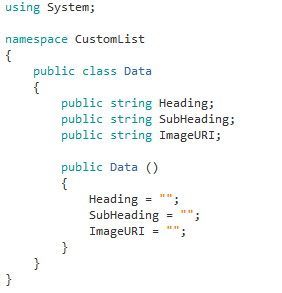


**Create a new class**

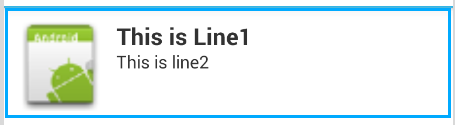
Call it **Data.cs**







Every row in a listview represents an object of class Data.



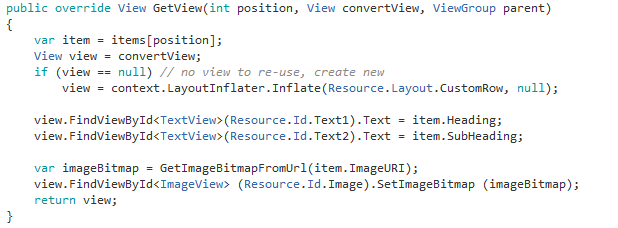
SubHeading

Heading

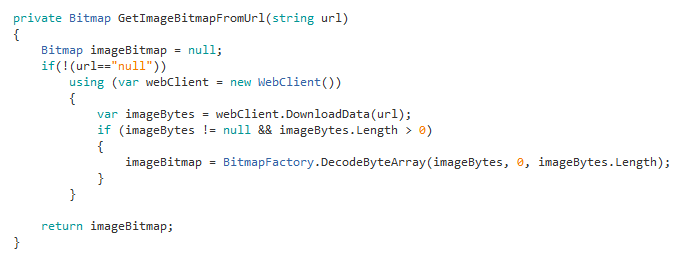
ImageURI

**Copy the DataAdapter.cs given to you**

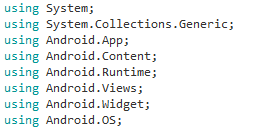
In the get view function you do your modification for the custom row of your list.



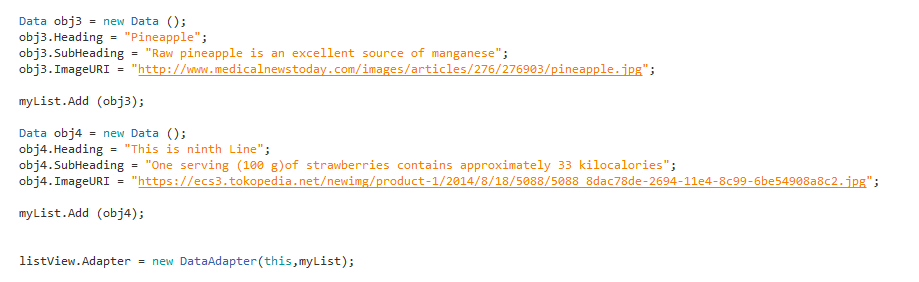
Linking the Data object with the custom row for list view



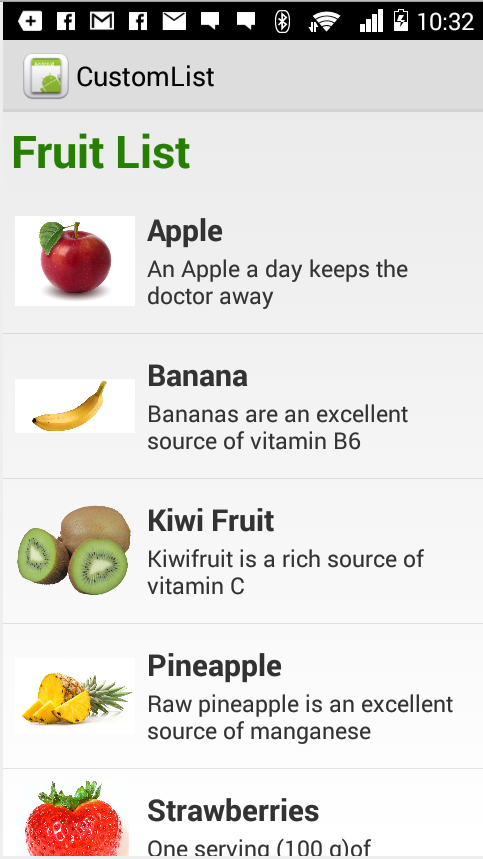
**MainActivity.cs**







}



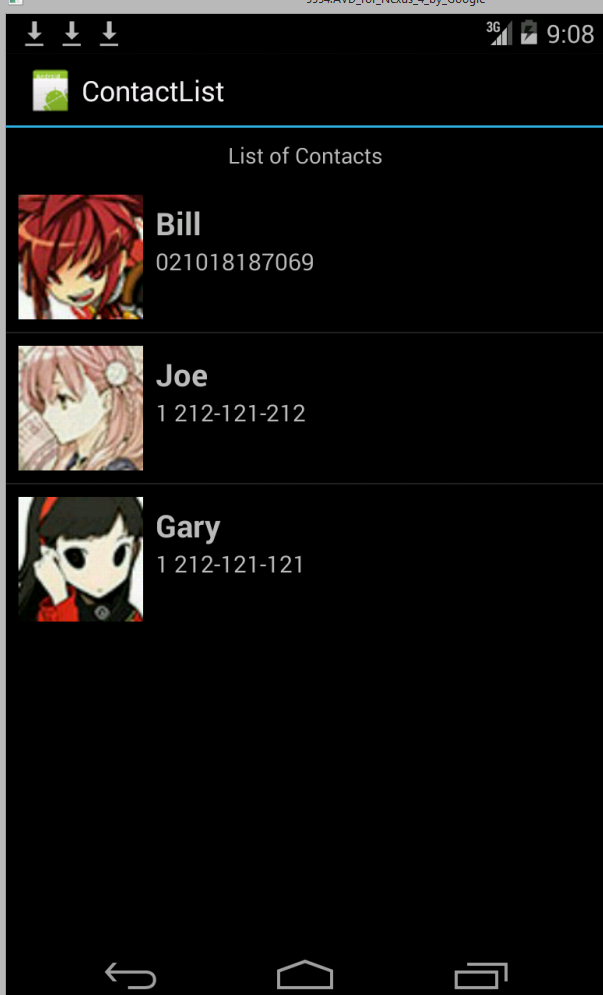
Obj2

Obj1

Obj

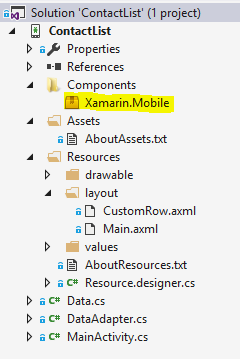
**Read Contacts**

Try and Implement a Custom ListView, listing all the contacts from your phone. The first line in the list shows the users display name, the second line is the phone numbers.



**In Components**

Import Xamarin.Contacts



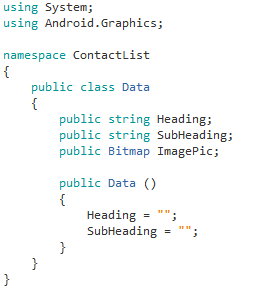
**Permissions Required** (Project - > (Project Name) Options - > Android Application)

Read Contacts



**Solution**

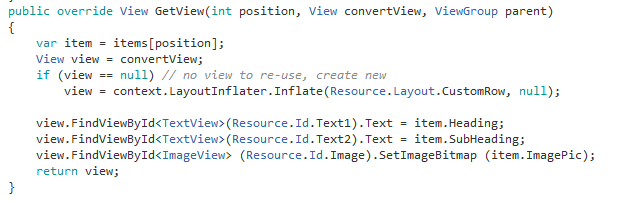
**Data.cs**



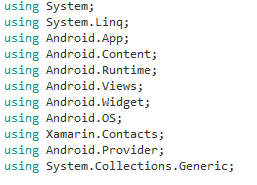
Note the change in the Data class with the Image URI replaced by the Image Pic.

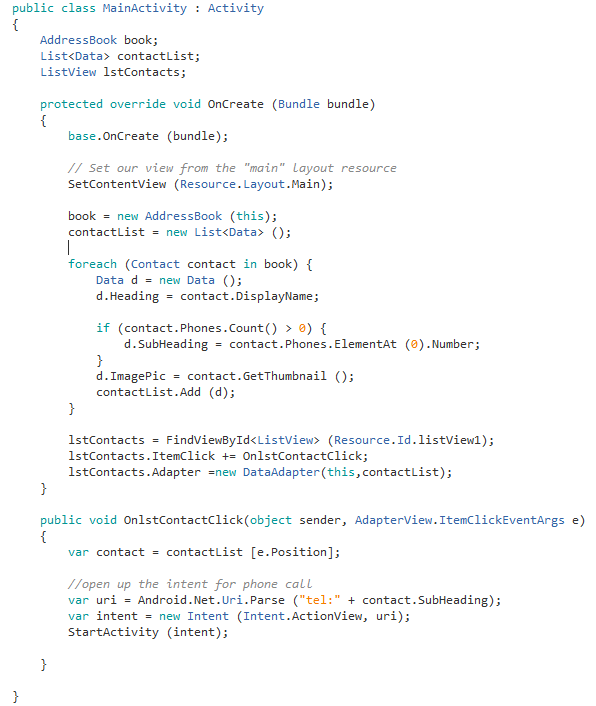
**DataAdapter.cs**

**Modify the GetView function**



**MainActivity.cs**





**Exercise**

1. **Try the fruits app using card layout instead of custom row.**

