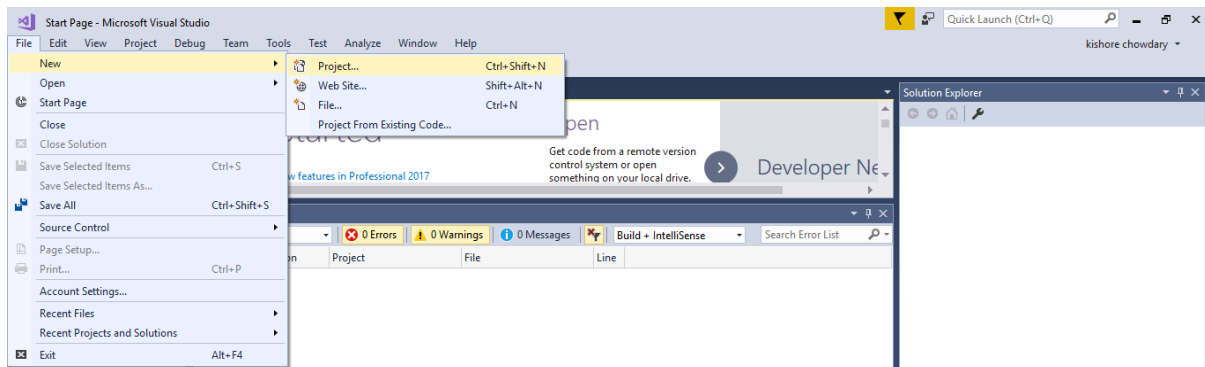


# Android Camera

The following document is for creating an android application that can invoke the camera of the android device and capture a picture and finally display same. Let us see the steps now.

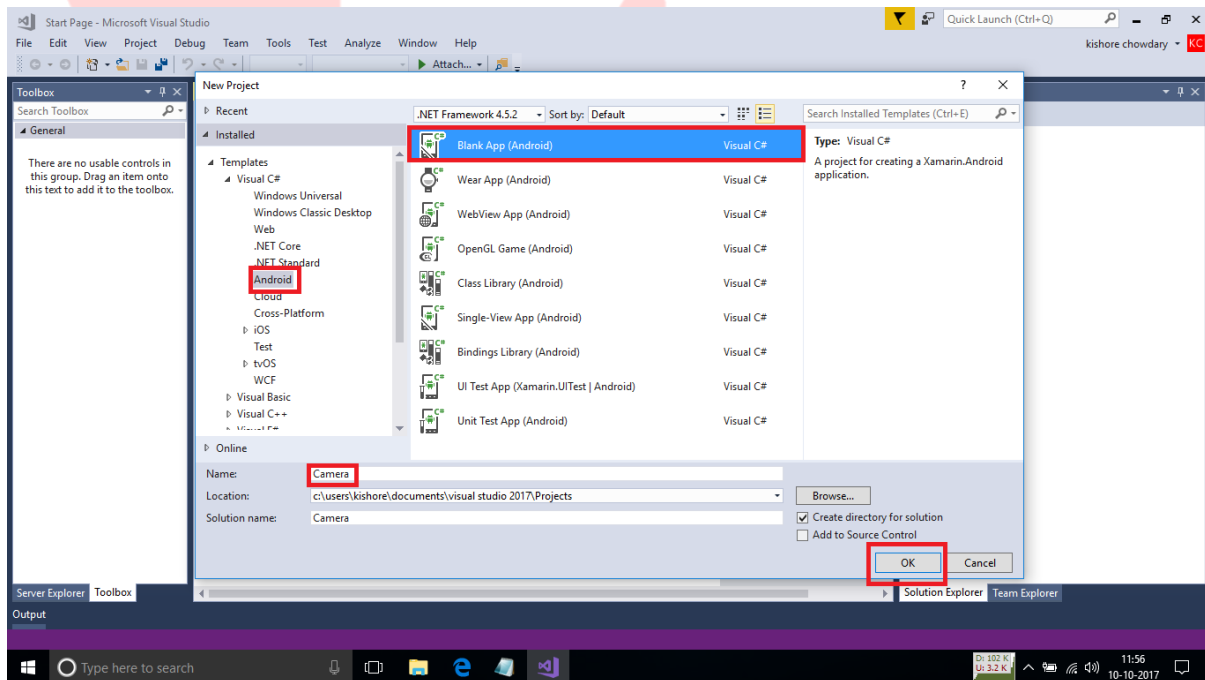
## Step 1:

Open the Visual studio. The version can be even Visual studio 2015 with an update that supports Xamarin development. After opening the visual studio go to **New→Project**.



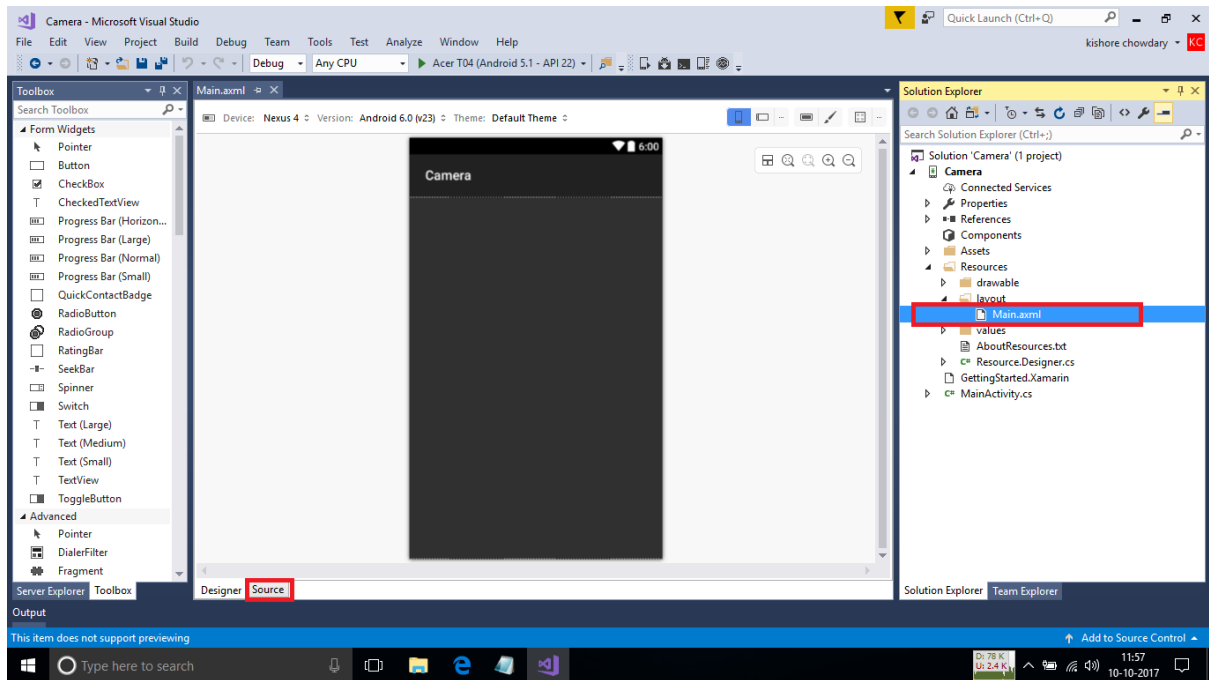
## Step 2:

Next you have to choose your platform and technology. In the left side menu choose **Android**. Next in the options that are displayed, choose the **Blank App (Android)** and name it as **Camera** and the hit on **Ok**.



### Step 3:

Now expand the **Resources** folder in the solution explorer which is in the right side. Then expand the **Layout** folder and click on the **Main.axml** which will display a designer window of mobile phone. There in the bottom you can find a small button with name **Source**. Click on it to go to the axml source code page.



### Step 4:

There you can find some default code. There add the below given code in the middle.

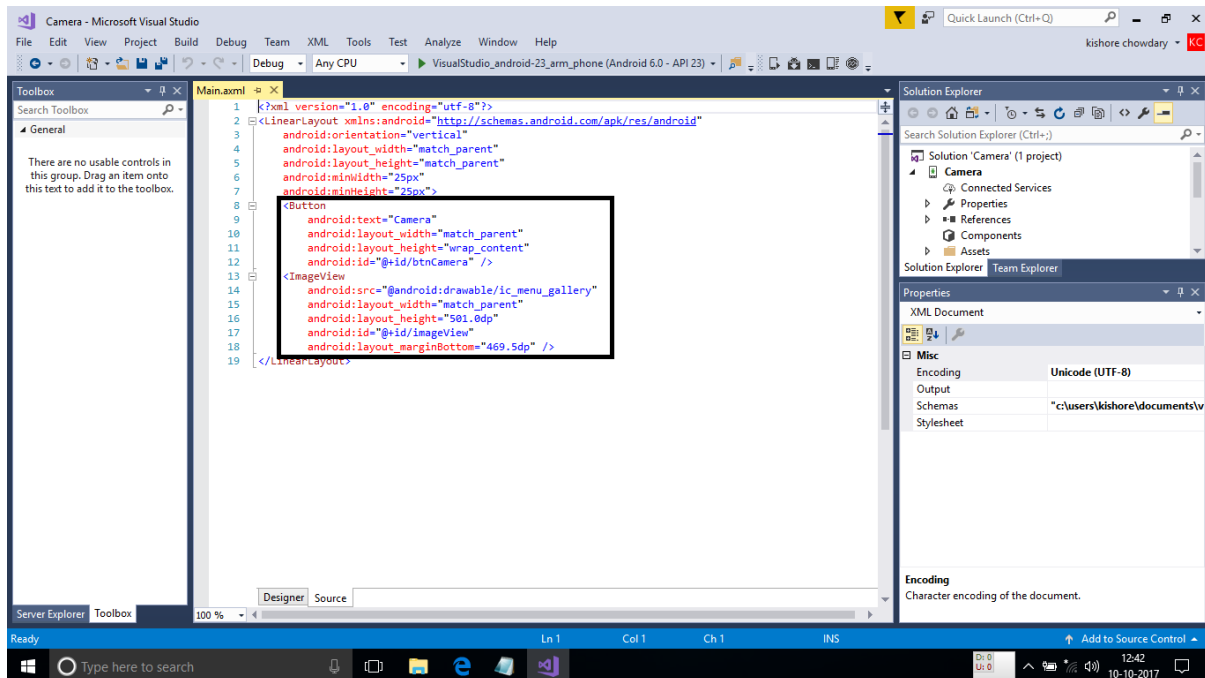
**Main.axml:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:minWidth="25px"
    android:minHeight="25px">
    <Button
        android:text="Camera"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/btnCamera" />
    <ImageView
        android:src="@android:drawable/ic_menu_gallery"
        android:layout_width="match_parent"
        android:layout_height="501.0dp"
        android:id="@+id/imageView"
```



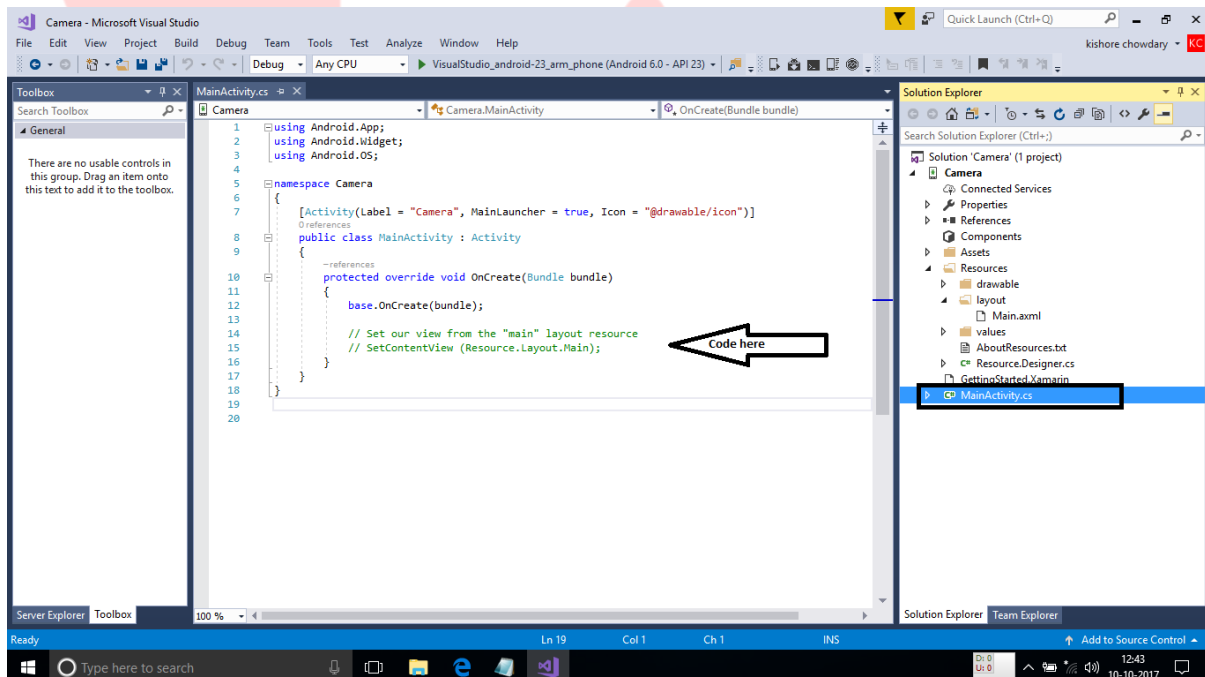
```
        android:layout_marginBottom="469.5dp" />
</LinearLayout>
```

After adding the code, the page might look somewhat like this.



## Step 5:

Now let us write some code that will connect the design with a logic. In the solution explorer click on the **MainActivity.cs** and there you will find some code like below.



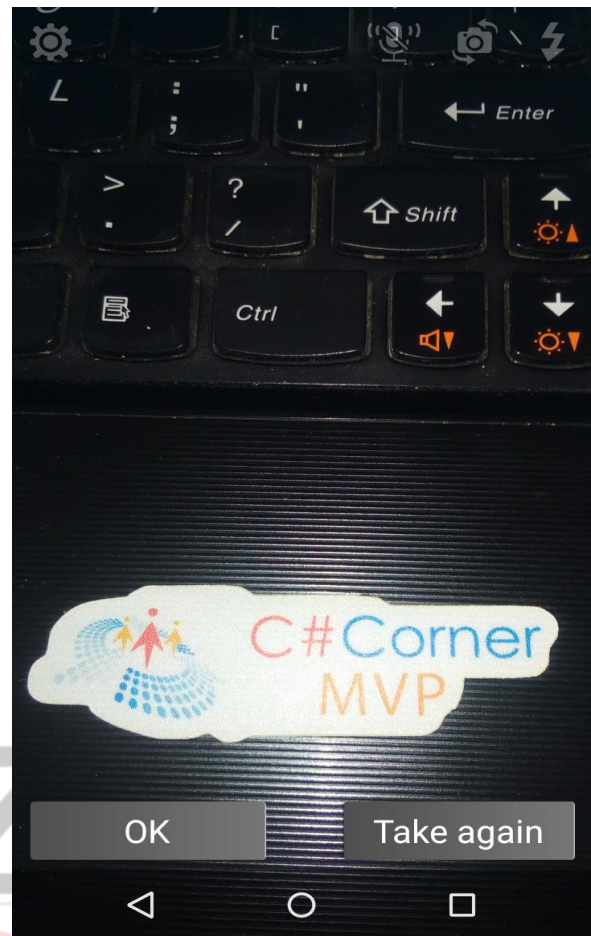
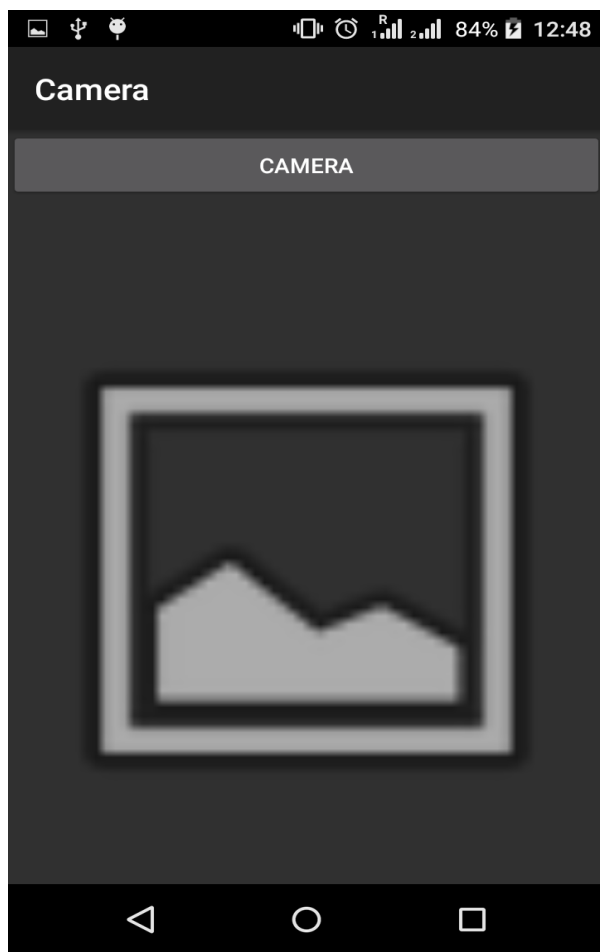
Here replace the entire code with the below given code. This will connect the design with some programming logic.

### MainActivity.cs

```
using Android.App;
using Android.Widget;
using Android.OS;
using Android.Content;
using Android.Provider;
using Android.Runtime;
using Android.Graphics;
namespace Camera
{
    [Activity(Label = "Camera", MainLauncher = true, Icon = "@drawable/icon")]
    public class MainActivity : Activity
    {
        ImageView imageView;
        protected override void OnCreate(Bundle bundle)
        {
            base.OnCreate(bundle);
            // Set our view from the "main" layout resource
            SetContentView(Resource.Layout.Main);
            var btnCamera = FindViewById<Button>(Resource.Id.btnCamera);
            imageView = FindViewById<ImageView>(Resource.Id.imageView);
            btnCamera.Click += BtnCamera_Click;
        }
        protected override void OnActivityResult(int requestCode, [GeneratedEnum]Result resultCode, Intent data)
        {
            base.OnActivityResult(requestCode, resultCode, data);
            Bitmap bitmap = (Bitmap)data.Extras.Get("data");
            imageView.SetImageBitmap(bitmap);
        }
        private void BtnCamera_Click(object sender, System.EventArgs e)
        {
            Intent intent = new Intent(MediaStore.ActionImageCapture);
            StartActivityForResult(intent, 0);
        }
    }
}
```

After adding the code, you are all set to deploy the application. Click on the **Triangle** button in the top of the page or press the **F5** button to deploy the app. Thus the application will be as follows.





# ode \$izzler

