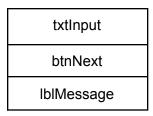
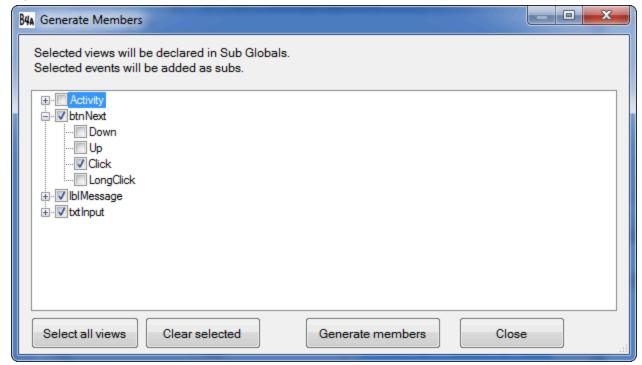
In this tutorial, we will be creating few activities.

- 1. Run Basic4Android.
- 2. Create New. Save it as "MyProject".
- 3. By default, you see "Main" activity.
- 4. Goto Menu/Project/Add Module/Activity Module. Enter a name "Info" for this module. You will see a second tab added beside "Main" tab.
- 5. We will make a login page on the "Main" activity. Click Designer and design layout as follows:



6. After layout process is done, click menu/tools/generate members. Click the name for all objects and for btnNext, click the event "click" as well.



- 7. Close Designer window, save the layout as "main".
- 8. Edit "Sub Activity_Create()" and "Sub btnNext_Click" as follows:

Sub Activity_Create(FirstTime As Boolean)

- 9.Run the program and click the button. Observe the outcome.
- 10. Stop the program. Re-edit Sub btnNext_Click as follows. Run and enter a) 1234 b)4567. Observer the outcome.

```
Sub btnNext_Click

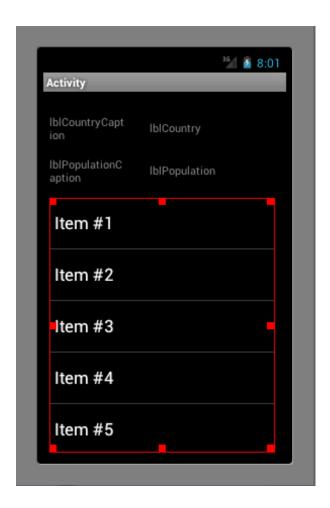
If txtInput.Text="1234" Then

StartActivity("Info")

End If

End Sub
```

11. We will be adding a listview object on the page "info". Click the "Info" tab. Goto Designer Window, Goto File/New and create the following objects.



12. Copy codes from the previous Android-Php-MySql project.

```
Sub Process_Globals
Dim hc As HttpClient
Dim COUNTRIES_LIST, COUNTRY_POPULATION As Int
COUNTRIES_LIST = 1
COUNTRY_POPULATION = 2
End Sub

Sub Globals
Type TwoLines (First As String, Second As String)
Dim IblPopulation As Label
Dim IstView As ListView
Dim IblCountry As Label
Dim IblCountryCaption As Label
Dim IblPopulationCaption As Label
```

End Sub

```
Sub Activity_Create(FirstTime As Boolean)
 If FirstTime Then
   hc.Initialize("hc")
 End If
 Activity.LoadLayout("info")
 FetchCountriesList
End Sub
Sub FetchCountriesList
 ProgressDialogShow("Fetching list of countries")
 'Gets all the available countries
 ExecuteRemoteQuery("SELECT name, id FROM countries ORDER BY id",
COUNTRIES LIST)
End Sub
Sub IstView_ItemClick (Position As Int, Value As Object)
 If IsBackgroundTaskRunning(hc, COUNTRY POPULATION) Then
    ToastMessageShow("Wait for previous call to finish.", False)
    Return
 End If
 Dim tl As TwoLines
 tl = Value
 lblCountry.Text = tl.Second
 IblPopulation.Text = "Calling server..."
 ExecuteRemoteQuery("SELECT population FROM countries WHERE id="" & tl.First & """,
COUNTRY_POPULATION)
End Sub
Sub ExecuteRemoteQuery(Query As String, TaskId As Int)
 Dim req As HttpRequest
 req.InitializePost2("http://droid.razoph.com/droidshowcountry.php", query.GetBytes("UTF8"))
 hc.Execute(req, TaskId)
End Sub
```

Sub hc_ResponseError (Response As HttpResponse, Reason As String, StatusCode As Int, TaskId As Int)

```
Log("Error: " & Reason & ", StatusCode: " & StatusCode)
 If Response <> Null Then
    Log(Response.GetString("UTF8"))
    Response.Release
 End If
 ProgressDialogHide
End Sub
Sub hc_ResponseSuccess (Response As HttpResponse, TaskId As Int)
 Dim res As String
 res = Response.GetString("UTF8")
 Log("Response from server: " & res)
 Dim parser As JSONParser
 parser.Initialize(res)
 Select TaskId
    Case COUNTRIES_LIST
      'add the countries to the ListView
      Dim countries As List
      countries = parser.NextArray 'returns a list with maps
      For i = 0 To countries. Size - 1
         Dim m As Map
         m = countries.Get(i)
         'We are using a custom type named TwoLines (declared in Sub Globals).
        'It allows us to later get the two values when the user presses on an item.
         Dim tl As TwoLines
        tl.First = m.Get("id")
        tl.Second = m.Get("name")
        lstView.AddTwoLines2(tl.First, tl.Second, tl)
      Next
      ProgressDialogHide
    Case COUNTRY_POPULATION
      Dim I As List
      I = parser.NextArray
      If I.Size = 0 Then
        IblPopulation.Text = "N/A"
      Else
         Dim m As Map
         m = I.Get(0)
        IblPopulation.Text = NumberFormat2(m.Get("population"),0, 0, 0, True) & " (K)"
      End If
 End Select
 response.Release
```

EXTRA CREDIT:

We can modify the codes on the main activity so that it also connect to database server and check for valid user. The following codes are raw but can be refined to achieve this objective.

'Activity module
Sub Process_Globals
Dim hc1 As HttpClient

'These global variables will be declared once when the application starts.

'These variables can be accessed from all modules.

End Sub

Sub Globals

These global variables will be redeclared each time the activity is created.

'These variables can only be accessed from this module.

Dim btnNext As Button
Dim lblMessage As Label
Dim txtInput As EditText
Dim intLogin As Int

End Sub

Sub Activity_Create(FirstTime As Boolean) activity.LoadLayout("main")

End Sub

Sub Activity_Resume

End Sub

Sub Activity_Pause (UserClosed As Boolean)

End Sub

```
Sub btnNext_Click
      intLogin=0
      If txtInput.Text<>Null Then
             ExecuteRemoteQuery("SELECT username FROM user WHERE
Password=" & txtInput.Text & "" , 1)
             Msgbox (intLogin,"log")
             If intLogin=1 Then StartActivity("Info")
      End If
End Sub
Sub ExecuteRemoteQuery(Query As String, TaskId As Int)
 Dim req As HttpRequest
 Msgbox(query,"debug")
 reg.InitializePost2("http://droid.razoph.com/droidshowcountry.php",
query.GetBytes("UTF8"))
 hc1.Execute(req, TaskId)
End Sub
Sub hc1_ResponseError (Response As HttpResponse, Reason As String, StatusCode As
Int, Taskld As Int)
 Log("Error: " & Reason & ", StatusCode: " & StatusCode)
 If Response <> Null Then
    Log(Response.GetString("UTF8"))
   Response.Release
 End If
End Sub
Sub hc1_ResponseSuccess (Response As HttpResponse, Taskld As Int)
 Dim res As String
 res = Response.GetString("UTF8")
 Log("Response from server: " & res)
 Dim parser As JSONParser
 parser.Initialize(res)
 Select TaskId
    Case 1
```

```
'add the countries to the ListView
    Dim userlist As List
    userlist = parser.NextArray 'returns a list with maps
    For i = 0 To userlist.Size - 1
       Dim m As Map
      m = userlist.Get(i)
      'We are using a custom type named TwoLines (declared in Sub Globals).
       'It allows us to later get the two values when the user presses on an item.
       Dim tl As TwoLines
      tl.First = m.Get("Password")
                    Msgbox (tl.First,"debug")
      tl.Second = m.Get("username")
      'IstView.AddTwoLines2(tl.First, tl.Second, tl)
                    intLogin=1
    Next
End Select
response.Release
```

End Sub