**Xamarin Forms App Tutorial**

**Xamarin App:** [**GitHub - tshego3/EmployeeManagementXamarinFormsApp: Xamarin Forms App - Employee Management, consuming RESTful API with OAuth.**](https://github.com/tshego3/EmployeeManagementXamarinFormsApp)

**API:** [**GitHub - tshego3/EmployeeManagementAPI: ASP.NET - Employee Management API with OAuth.**](https://github.com/tshego3/EmployeeManagementAPI)

**YouTube:** [**https://youtube.com/playlist?list=PLpbcUe4chE78YvgIMtmgNEmRGyGJcsQdF**](https://youtube.com/playlist?list=PLpbcUe4chE78YvgIMtmgNEmRGyGJcsQdF)

Create a new Mobile App.



Provide a title for the solution, select the blank template and create for iOS, Android & UWP.

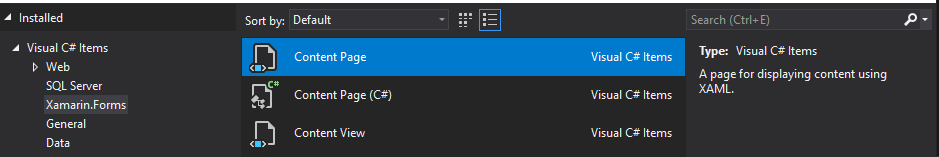
1. Add a new folder “ViewModels” and a class “RegisterViewModel”.



Add the following code in the “RegisterViewModel” Class.

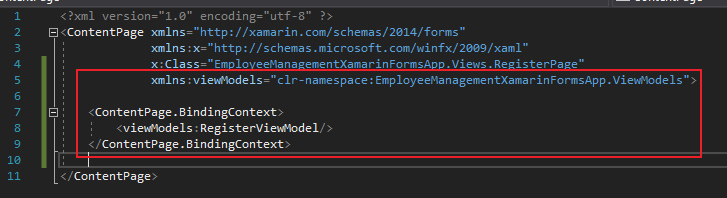


2. Add a new folder “Views” and a Forms Blank Content Page Xaml “RegisterPage”.

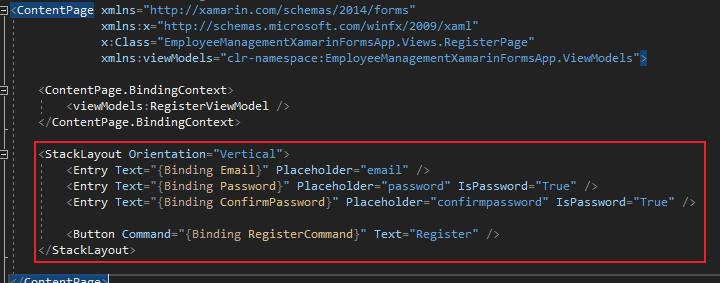




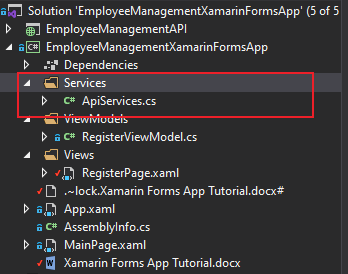
Add the following line in the Content Page, so we can do data binding.



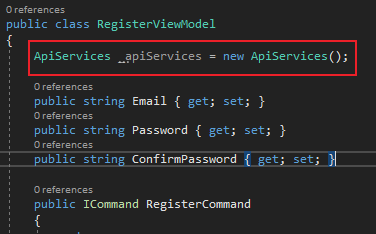
Add the following code in code.



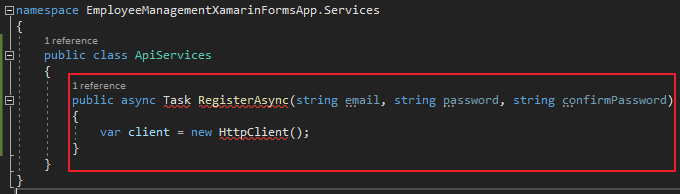
3. Add a new folder “Services” and a Class “ApiServices”.



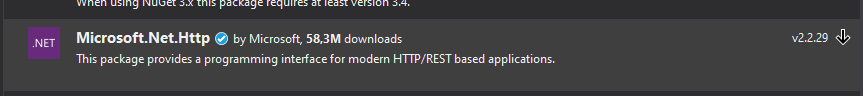
Add the following code in the “RegisterViewModel” Class.



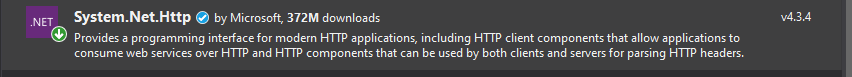
Add the code in the “ApiServices” Class.



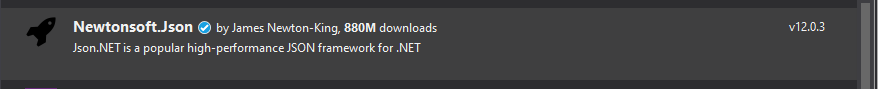
Afterwards install the Microsoft.Net.Http or System.Net.Http and Newtonsoft.JSON NuGet Packages in the “EmployeeManagementXamarinFormsApp” (as well for Android, iOS & UWP projects)via the NuGet Package Manager.



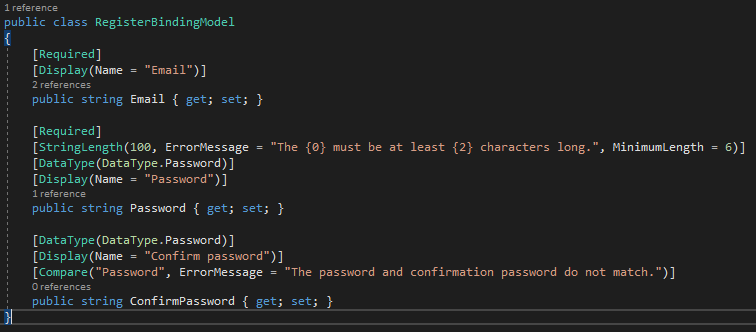
Or



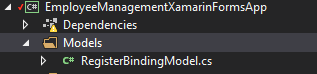
And



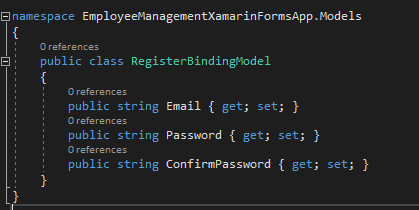
Open the “AccountBindingModels” Class in the Web API (EmployeeManagementAPI) Solution and copy the “RegisterBindingModel” in the class.



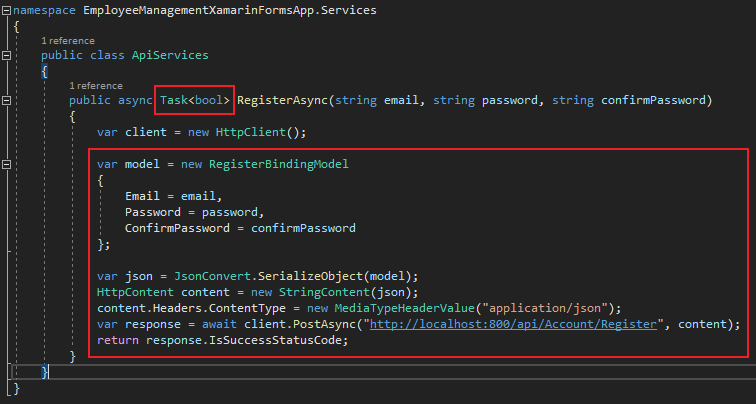
Add a new folder “Models” and a Class “RegisterBindingModel”.



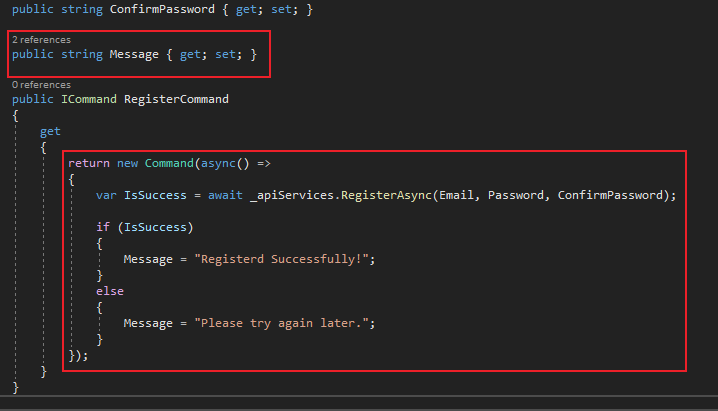
Add the code copied from the “RegisterBindingModel” Class found in the Web API, with the following alterations.



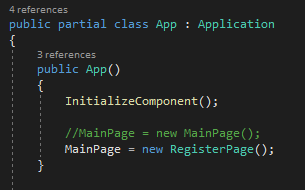
Add the following code in the “ApiServices” Class and alterations on the async Task.



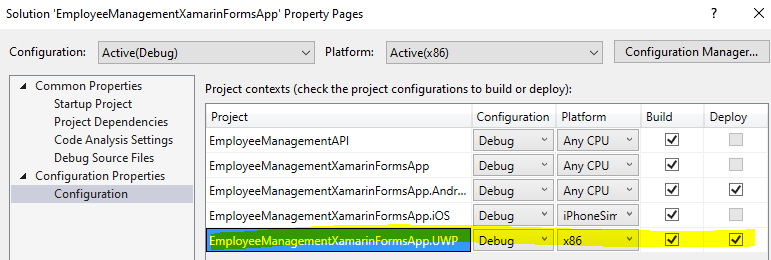
Add the following code in the “RegisterViewModel” Class.



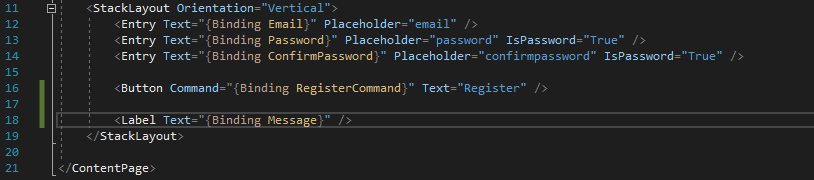
Alter the code in the “App.xaml.cs” Class, so that the app starts up in the Register Page.



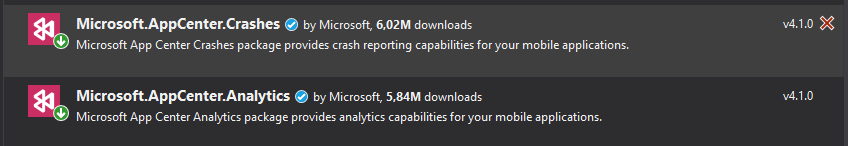
4. Confirm that UWP is deployed by right-clicking the project solution and click “Set Startup Projects...”

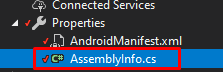


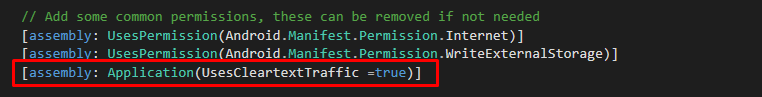
Added the following lable in the “RegisterPage” Content Page and test the app.



Afterwards install the Microsoft.AppCenter.Crashes and Microsoft.AppCenter.Analytics NuGet Packages in the “EmployeeManagementXamarinFormsApp” (as well for Android, iOS & UWP projects) via the NuGet Package Manager.



Afterwards Enable “Clear Text by going into the Android Project, then click on properties.  


Click on “AssemblyInfo” Class, then add the following code.  
 

**Enable long file names on Win 10 Pro:**

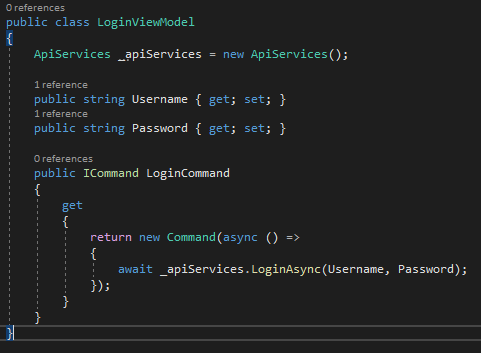
Search for “Local Group Policy Editor” and open it. Under Local Computer Policy/Computer Configuration/Administrative Templates/System/Filesystem/. Double click on “Enabling Win32 long paths” and set it enabled.

**Login Page**

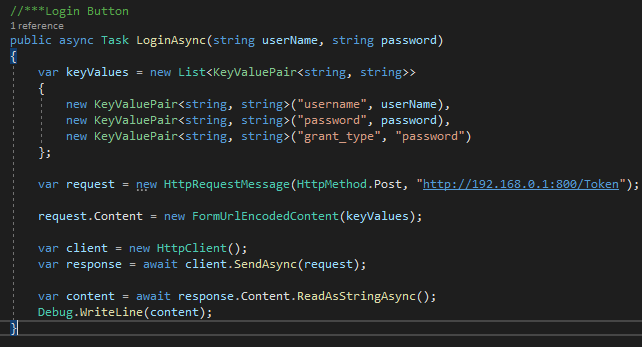
5. Add a new Class “LoginViewModel” in the “ViewModels” folder.



And add the following code in the “LoginViewModel” Class.



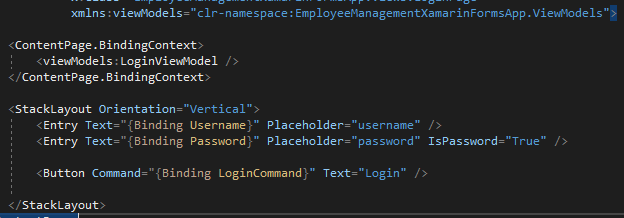
Add the following code in the “ApiServices” Class.



Add a new Forms Blank Content Page Xaml “LoginPage” in the “Views” folder.



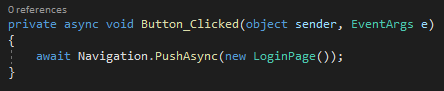
Add the following code in the “LoginPage” Content Page.



Add the following code in the “RegisterPage” Content Page, which allows a user to either register or login when the application starts up.



And the code in the “RegisterPage.xaml.cs” Content Page Class.



Update the code in the “App.xaml.cs” Class and test the app.

