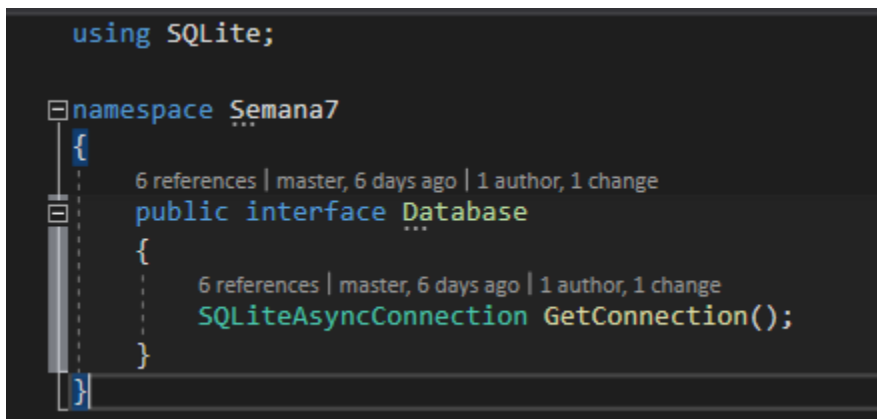


Link: <https://github.com/rtravez/Semana7.git>

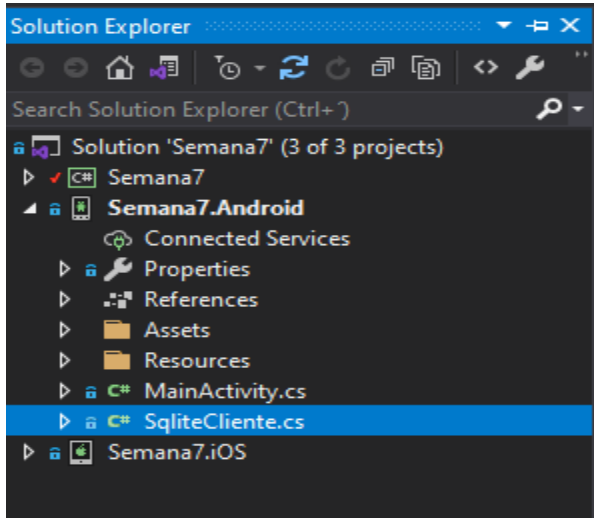
### 1. Instalar el paquete “sqlite-net-pcl” en Nuget



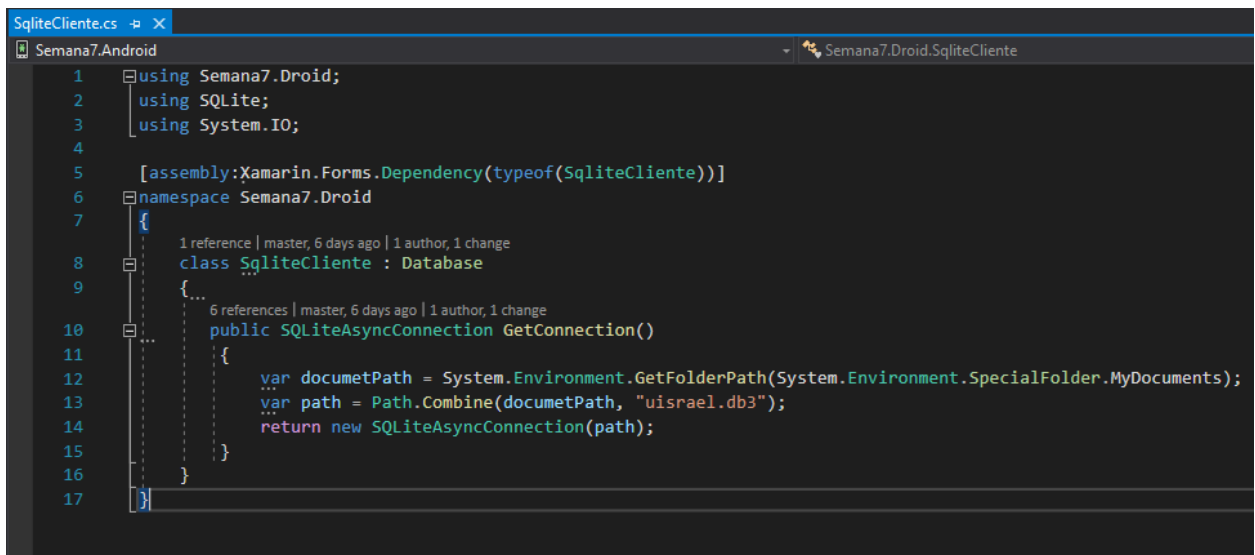
### 2. Creamos una interfaz



### 3. Creamos la implementación SqlCliente en el proyecto de Android



#### 4. Implementamos la interface y agregar la dependencia assembly



#### 5. Crear una carpeta Models y una clase “Estudiante”, que será el equivalente a una tabla



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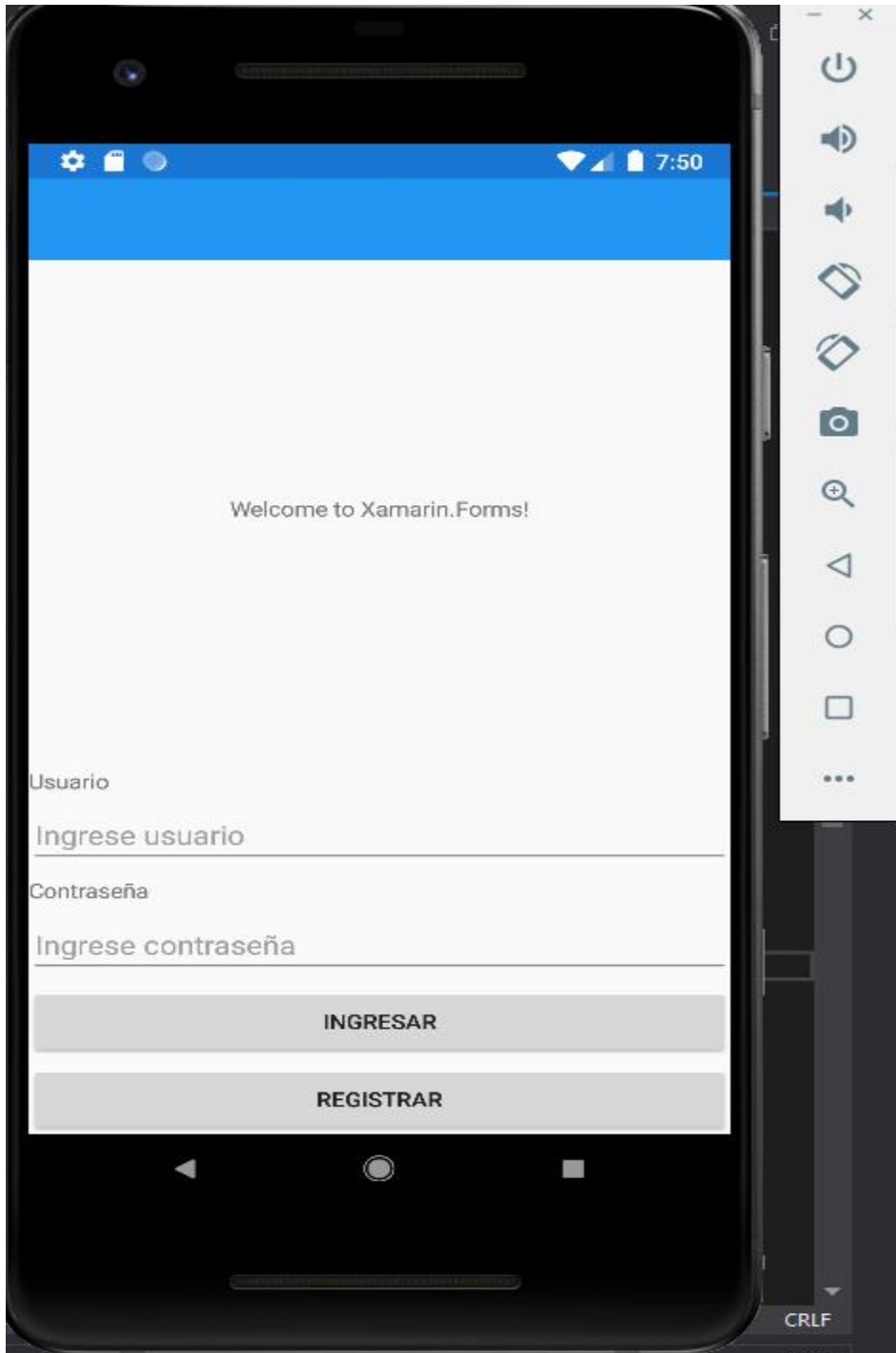
```
Estudiante.cs  X
C# Semana7  Semana7.Models.Estudiante

1  using System;
2  using System.Collections.Generic;
3  using System.Text;
4  using SQLite;
5
6
7  namespace Semana7.Models
8  {
9      15 references | master, 6 days ago | 1 author, 1 change
10     public class Estudiante
11     {
12         [PrimaryKey, AutoIncrement]
13         1 reference | master, 6 days ago | 1 author, 1 change
14         public int Id { get; set; }
15         [MaxLength(100)]
16         1 reference | master, 6 days ago | 1 author, 1 change
17         public string Nombre { get; set; }
18         [MaxLength(100)]
19         1 reference | master, 6 days ago | 1 author, 1 change
20         public string Usuario { get; set; }
21         [MaxLength(100)]
22         1 reference | master, 6 days ago | 1 author, 1 change
23         public string Contrasenia { get; set; }
24     }
25 }
```

## 6. Login



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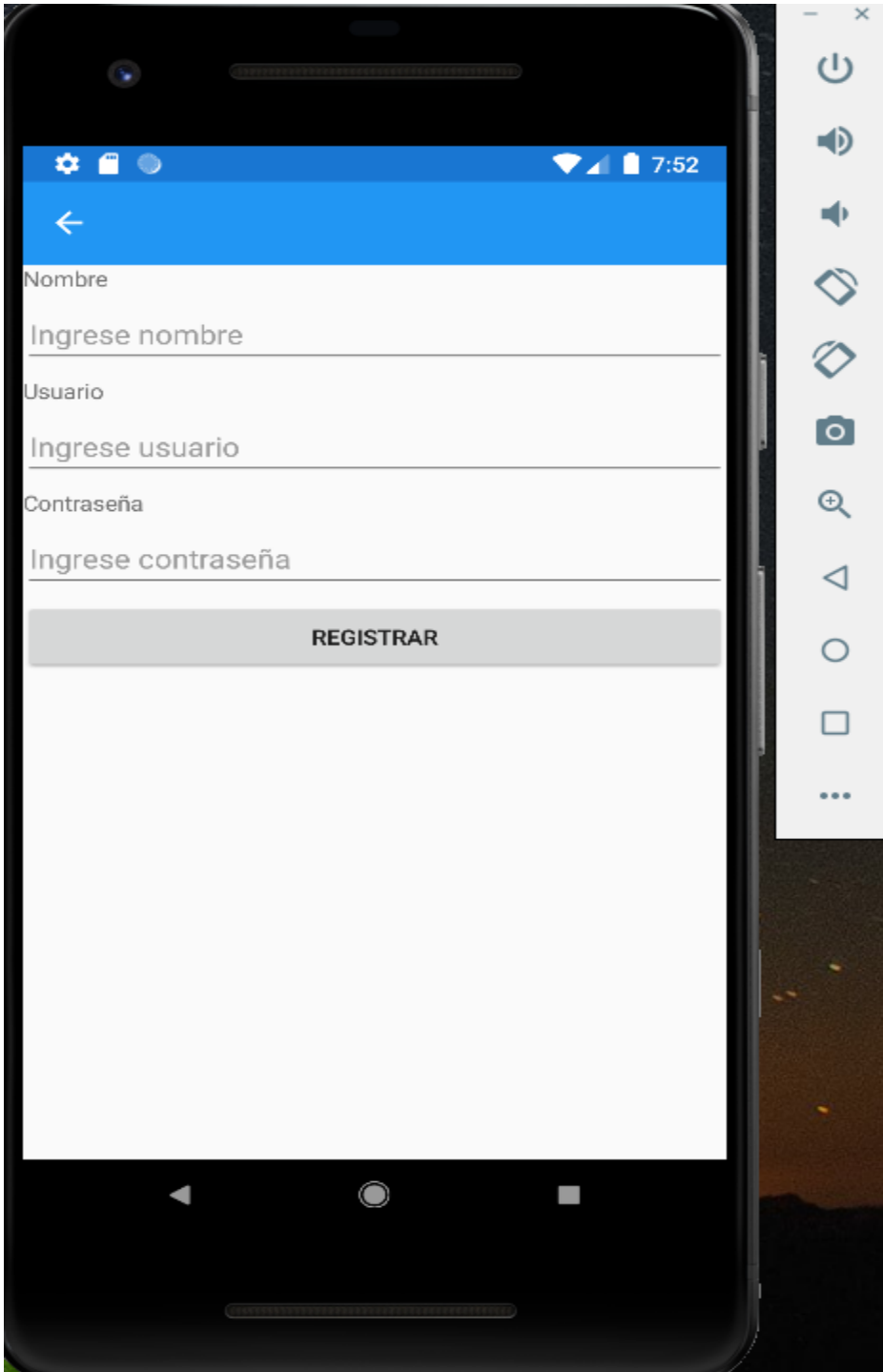


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```
LoginPage.xaml  Estudiante.cs
ContentPage
1  <?xml version="1.0" encoding="utf-8" ?>
2  <ContentPage xmlns="http://xamarin.com/schemas/2014/forms"
3      xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
4      x:Class="Semana7.Views.LoginPage">
5      <ContentPage.Content>
6      <StackLayout>
7          <Label Text="Welcome to Xamarin.Forms!"
8              VerticalOptions="CenterAndExpand"
9              HorizontalOptions="CenterAndExpand" />
10
11          <Label Text="Usuario"></Label>
12          <Entry x:Name="txtUsuario" Placeholder="Ingrese usuario" Keyboard="Default"></Entry>
13          <Label Text="Contraseña"></Label>
14          <Entry x:Name="txtContraseña" IsPassword="True" Placeholder="Ingrese contraseña"></Entry>
15
16          <Button x:Name="btnLogin" Text="Ingresar" Clicked="btnLogin_Clicked"></Button>
17          <Button x:Name="btnRegistro" Text="Registrar" Clicked="btnRegistro_Clicked"></Button>
18      </StackLayout>
19  </ContentPage.Content>
20 </ContentPage>
```

```
LoginPage.xaml.cs  RegistroPage.xaml.cs  RegistroPage.xaml  LoginPage.xaml  Estudiante.cs
Semana7
13  {
14      [XamlCompilation(XamlCompilationOptions.Compile)]
15      5 references | master, 6 days ago | 1 author, 4 changes
16      public partial class LoginPage : ContentPage
17      {
18          private SQLiteAsyncConnection con;
19
20          1 reference | master, 6 days ago | 1 author, 1 change
21          public LoginPage()
22          {
23              InitializeComponent();
24              con = DependencyService.Get<Database>().GetConnection();
25
26          1 reference | master, 6 days ago | 1 author, 1 change
27          public static IEnumerable<Estudiante> SELECT_WHERE(SQLiteConnection db, string usuario, string contraseña)
28          {
29              return db.Query<Estudiante>("SELECT * FROM Estudiante where Usuario = ? and Contraseña = ?", usuario, contraseña);
30          }
31
32          0 references | master, 6 days ago | 1 author, 4 changes
33          private void btnLogin_Clicked(object sender, EventArgs e)
34          {
35              try
36              {
37                  var docuemetPath = Path.Combine(Environment.GetFolderPath(Environment.SpecialFolder.MyDocuments), "iusrael.db3");...
38                  var db = new SQLiteConnection(docuemetPath);
39                  db.CreateTable<Estudiante>();
40                  IEnumerable<Estudiante> resultado = SELECT_WHERE(db, txtUsuario.Text, txtContraseña.Text);
41
42                  if (resultado.Count() > 1)
43                  {
44                      // DisplayAlert("Alerta", "Usuario Correcto", "Ok");
45                      Navigation.PushAsync(new ConsultarRegistroPage());
46                  }
47                  else
48                  {
49                      DisplayAlert("Alerta", "Usuario Incorrecto", "Ok");
50                  }
51              }
52              catch (Exception ex)
53              {
54                  throw ex;
55              }
56          }
57
58          0 references | master, 6 days ago | 1 author, 2 changes
59          private void btnRegistro_Clicked(object sender, EventArgs e)
60          {
61              Navigation.PushAsync(new RegistroPage());
62          }
63      }
64  }
```

## 7. Registro



The image shows a smartphone screen displaying a registration form. The form has a blue header bar with a back arrow icon. Below the header, there are three input fields: 'Nombre' (Name), 'Usuario' (Username), and 'Contraseña' (Password). Each field has a placeholder text: 'Ingrese nombre', 'Ingrese usuario', and 'Ingrese contraseña' respectively. At the bottom of the form is a grey button labeled 'REGISTRAR'. The smartphone is shown against a background of a night sky with stars.

Nombre  
Ingrese nombre

Usuario  
Ingrese usuario

Contraseña  
Ingrese contraseña

REGISTRAR



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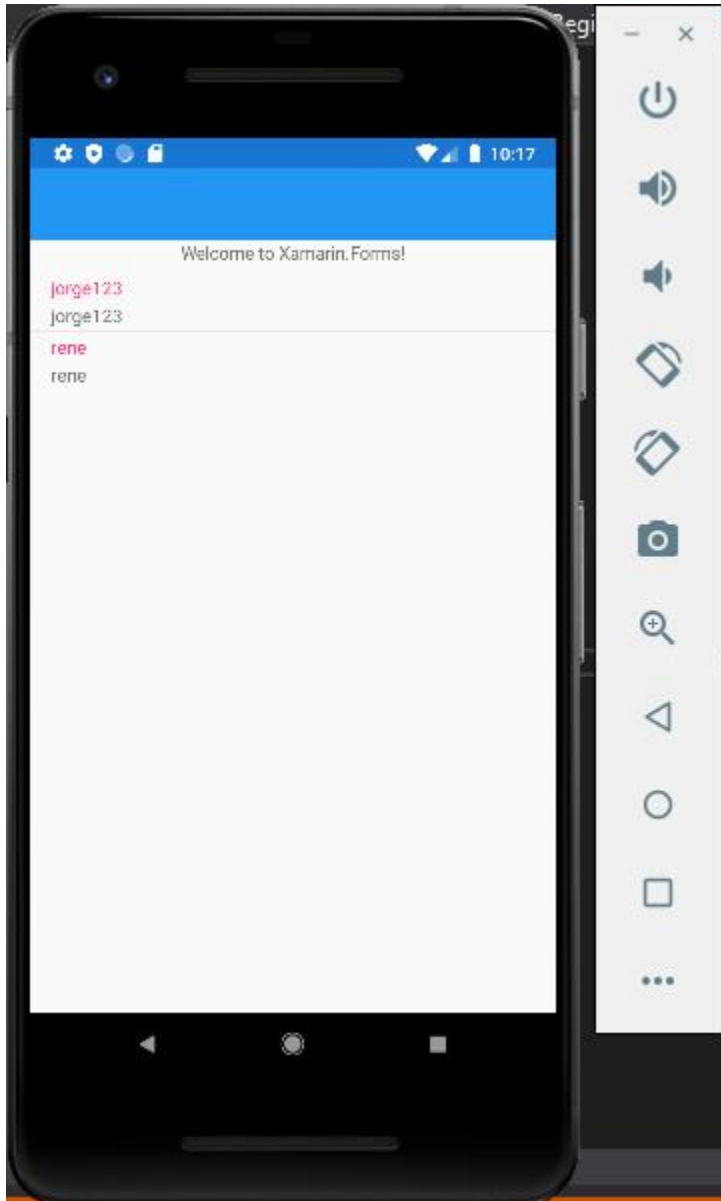
```
RegistroPage.xaml LoginPage.xaml Estudiante.cs
ContentPage
1 <?xml version="1.0" encoding="utf-8" ?>
2 <ContentPage xmlns="http://xamarin.com/schemas/2014/forms"
3   xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
4   x:Class="Semana7.Views.RegistroPage">
5   <ContentPage.Content>
6     <StackLayout>
7
8       <Label Text="Nombre"></Label>
9       <Entry x:Name="txtNombre" Placeholder="Ingrese nombre"></Entry>
10      <Label Text="Usuario"></Label>
11      <Entry x:Name="txtUsuario" Placeholder="Ingrese usuario"></Entry>
12      <Label Text="Contraseña"></Label>
13      <Entry x:Name="txtContrasenia" IsPassword="True" Placeholder="Ingrese contraseña"></Entry>
14
15      <Button x:Name="btnRegistrar" Text="Registrar" Clicked="btnRegistrar_Clicked"></Button>
16    </StackLayout>
17  </ContentPage.Content>
18 </ContentPage>
```

```
RegistroPage.xaml.cs RegistroPage.xaml LoginPage.xaml Estudiante.cs
Semana7 Semana7.Views.RegistroPage
13 {
14   [XamlCompilation(XamlCompilationOptions.Compile)]
15   5 references | 0 changes | 0 authors, 0 changes
16   public partial class RegistroPage : ContentPage
17   {
18     private SQLiteAsyncConnection con;
19     1 reference | 0 changes | 0 authors, 0 changes
20     public RegistroPage()
21     {
22       InitializeComponent();
23       con = DependencyService.Get<Database>().GetConnection();
24
25     0 references | 0 changes | 0 authors, 0 changes
26     private void btnRegistrar_Clicked(object sender, EventArgs e)
27     {
28       var datosRegistro = new Estudiante
29       {
30         Nombre = txtNombre.Text,
31         Usuario = txtUsuario.Text,
32         Contrasenia = txtContrasenia.Text
33       };
34
35       con.InsertAsync(datosRegistro);
36       txtNombre.Text = "";
37       txtUsuario.Text = "";
38       txtContrasenia.Text = "";
39     }
40   }
```



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## 8. Consulta





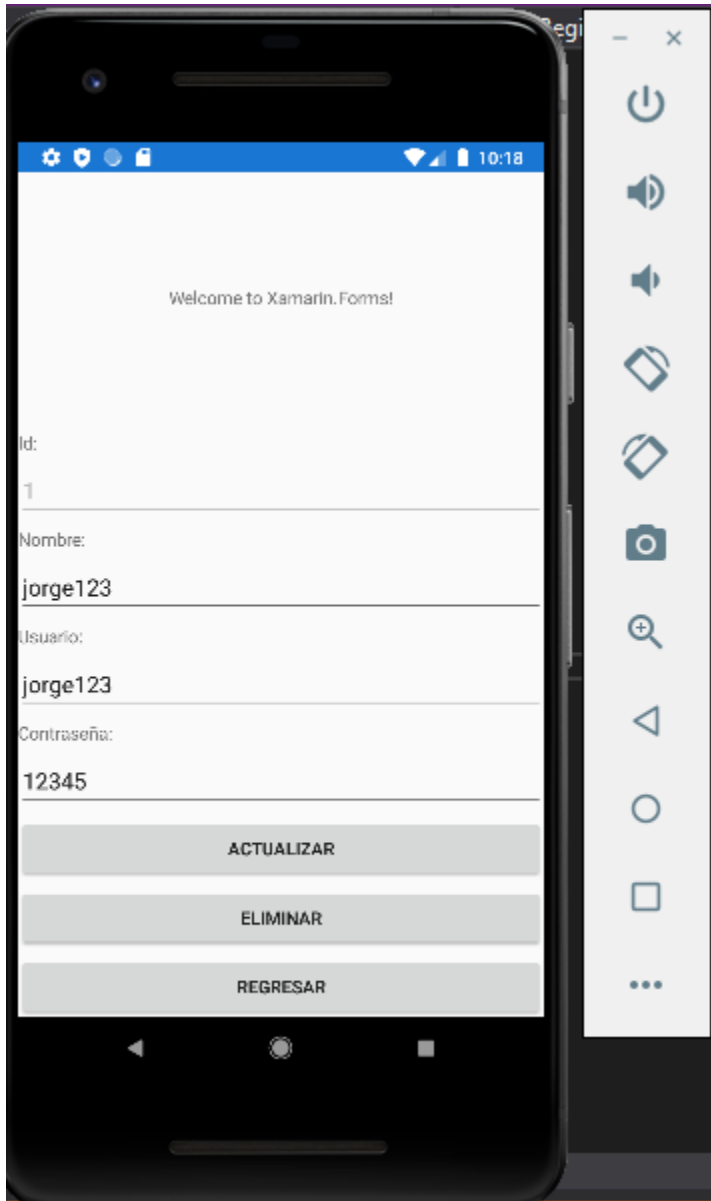


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```
ConsultarRegistroPage.xaml.cs  X
C# Semana7 Semana7.Views.ConsultarRegist...

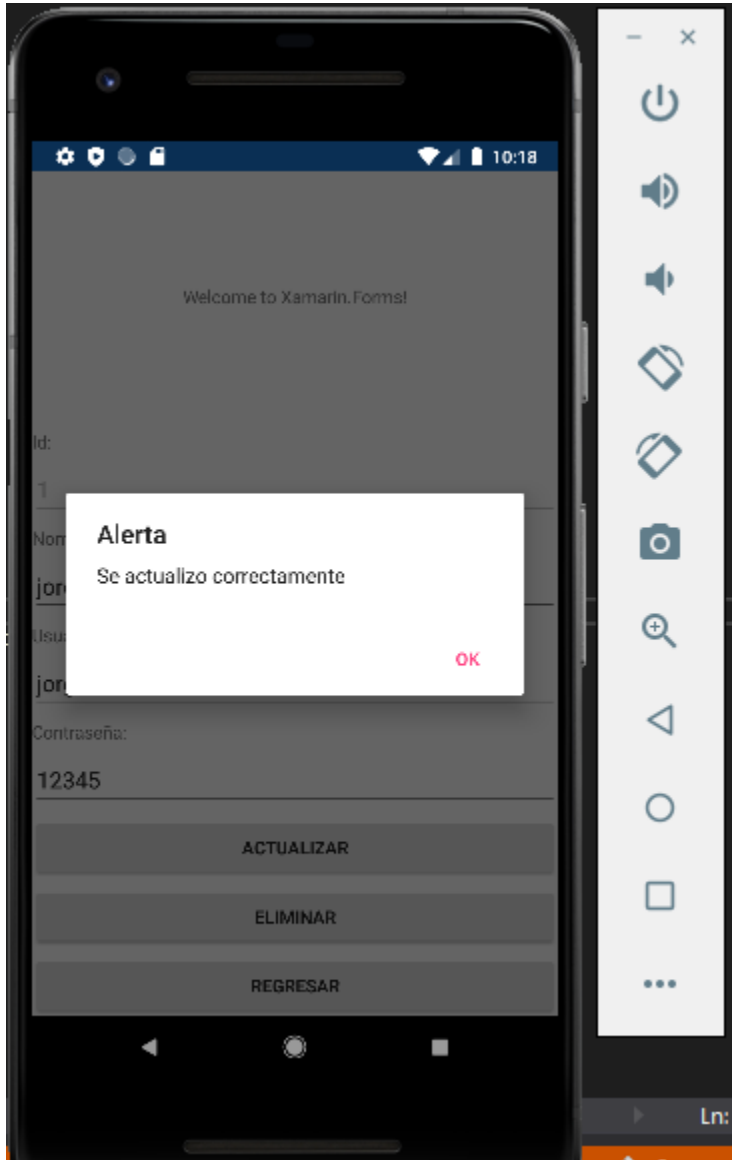
1  using System;
2  using System.Collections.Generic;
3  using System.Collections.ObjectModel;
4  using System.Linq;
5  using System.Text;
6  using System.Threading.Tasks;
7  using SQLite;
8  using Xamarin.Forms;
9  using Semana7.Models;
10 using Xamarin.Forms.Xaml;
11
12 namespace Semana7.Views
13 {
14     [XamlCompilation(XamlCompilationOptions.Compile)]
15     5 references | 0 changes | 0 authors, 0 changes
16     public partial class ConsultarRegistroPage : ContentPage
17     {
18         private SQLiteAsyncConnection con;
19         private ObservableCollection<Estudiante> tablaEstudiantes;
20
21         1 reference | 0 changes | 0 authors, 0 changes
22         public ConsultarRegistroPage()
23         {
24             InitializeComponent();
25             con = DependencyService.Get<Database>().GetConnection();
26             NavigationPage.SetHasBackButton(this, false);
27         }
28
29         0 references | 0 changes | 0 authors, 0 changes
30         protected async override void OnAppearing()
31         {
32             var resultado = await con.Table<Estudiante>().ToListAsync();
33             tablaEstudiantes = new ObservableCollection<Estudiante>(resultado);
34             listaUsuarios.ItemsSource = tablaEstudiantes;
35             base.OnAppearing();
36         }
37
38         0 references | 0 changes | 0 authors, 0 changes
39         private void listaUsuarios_ItemSelected(object sender, SelectedItemChangedEventArgs e)
40         {
41             var obj = (Estudiante)e.SelectedItem;
42             var item = obj.Id.ToString();
43             var id = Convert.ToInt32(item);
44
45             Navigation.PushAsync(new ElementoPage(id));
46         }
47     }
48 }
```

## 9. Elemento



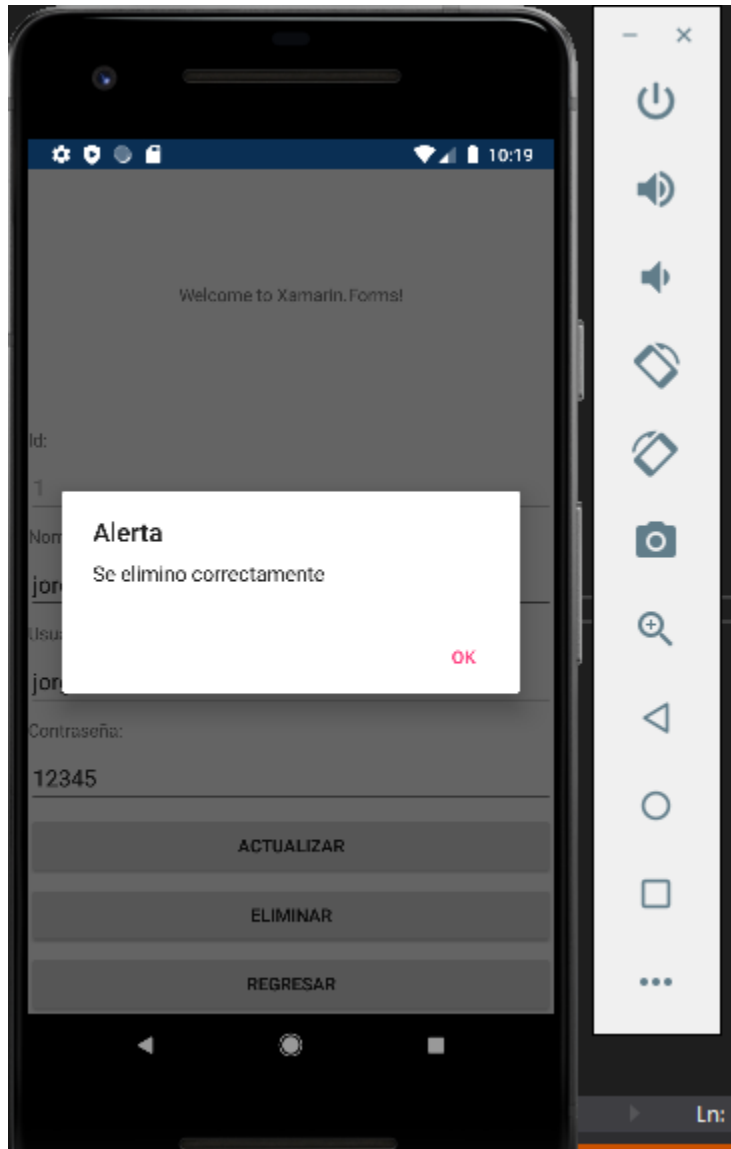


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```
ElementoPage.xaml.cs
Semana7
Semana7.Views.ElementoPage

10 using Semana7.Models;
11
12 namespace Semana7.Views
13 {
14     [XamlCompilation(XamlCompilationOptions.Compile)]
15     public partial class ElementoPage : ContentPage
16     {
17         private SQLiteAsyncConnection con;
18         private IEnumerable<Estudiante> deleteEstudiante;
19         private IEnumerable<Estudiante> updateEstudiante;
20         private int id;
21         public ElementoPage(int id)
22         {
23             InitializeComponent();
24             con = DependencyService.Get<Database>().GetConnection();
25             this.id = id;
26         }
27
28         public static IEnumerable<Estudiante> delete(SQLiteConnection db, int id)
29         {
30             return db.Query<Estudiante>("Delete from Estudiante where Id=?", id);
31         }
32
33         public static IEnumerable<Estudiante> update(SQLiteConnection db, string nombre, string usuario, string contrasenia, int id)
34         {
35             return db.Query<Estudiante>("Update Estudiante set Nombre=?, Usuario=?, Contraseña=? where Id=?", nombre, usuario, contrasenia, id);
36         }
37         private void btnActualizar_Clicked(object sender, EventArgs e)
38         {
39             try
40             {
41                 var databasepath = Path.Combine(Environment.GetFolderPath(Environment.SpecialFolder.MyDocuments), "iusrael.db3");
42                 var db = new SQLiteConnection(databasepath);
43                 updateEstudiante = update(db, txtNombre.Text, txtUsuario.Text, txtContraseña.Text, id);
44             }
45             catch (Exception ex) {
46                 throw ex;
47             }
48         }
49
50
51
52         private void btnEliminar_Clicked(object sender, EventArgs e)
53         {
54             try {
55                 var databasepath = Path.Combine(Environment.GetFolderPath(Environment.SpecialFolder.MyDocuments), "iusrael.db3");
56                 var db = new SQLiteConnection(databasepath);
57                 deleteEstudiante = delete(db, id);
58             } catch (Exception ex) {
59                 throw ex;
60             }
61         }
62     }
63 }
64
```