



# UNIVERSIDAD DE COLIMA

## **Facultad de Telemática** **Ingeniería de software**

***Reporte:*** *Aplicación multiplataforma en Xamarin  
Forms para autenticarse*

Programación para Móviles

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**Grado y grupo:** 5ºD

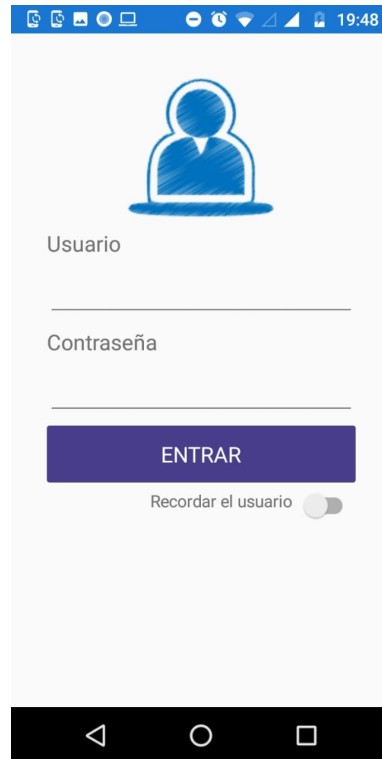
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Lunes 26 de octubre del 2020

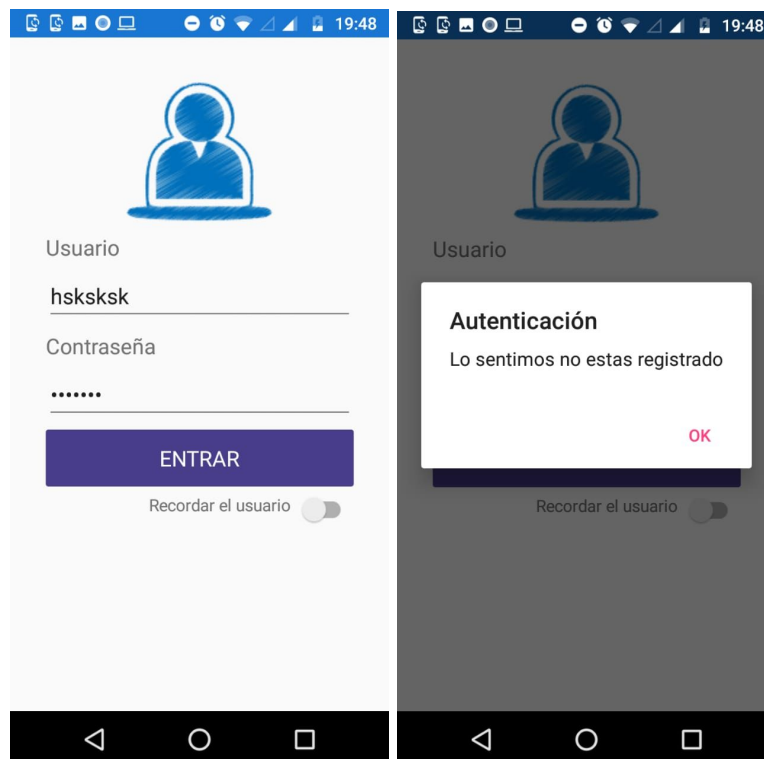
# Interfaz

## Interfaz principal



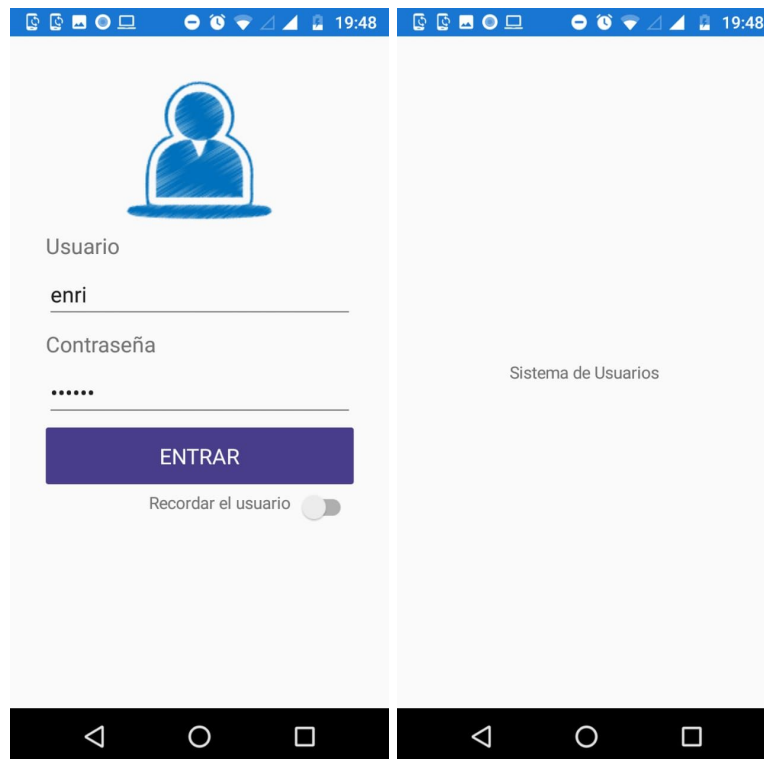
A screenshot of a mobile application's main login screen. At the top is a blue status bar with icons for signal, Wi-Fi, battery, and the time 19:48. Below it is a light gray background. In the center, there is a blue icon of a person sitting at a desk with a laptop. Underneath the icon is the label 'Usuario' followed by a text input field. Below that is the label 'Contraseña' followed by another text input field. A purple button with the text 'ENTRAR' is positioned below the password field. At the bottom of the form is a toggle switch labeled 'Recordar el usuario', which is currently turned off. The screen is framed by a black Android navigation bar at the bottom with back, home, and recent apps buttons.

## Ingreso Usuario Invalido



Two side-by-side screenshots of the mobile application. The left screenshot shows the login screen with the 'Usuario' field filled with 'hsksksk' and the 'Contraseña' field filled with dots. The 'ENTRAR' button is visible. The right screenshot shows the same login screen but with a dark gray background. A white dialog box is overlaid in the center with the title 'Autenticación' and the message 'Lo sentimos no estas registrado'. The dialog has an 'OK' button in red text. The 'Recordar el usuario' toggle is also visible on the right screen.

## Ingreso Usuario Valido



## Código XAML de la interfaz

### Página principal

```
<?xml version="1.0" encoding="utf-8" ?>
<ContentPage xmlns="http://xamarin.com/schemas/2014/forms"
             xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
             x:Class="Autenticacion.MainPage">

    <StackLayout Margin="30,30,30,5">

        <StackLayout Orientation="Horizontal" HorizontalOptions="Center">
            <Image Source="iconousuario.png"/>
        </StackLayout>
        <Label Text="Usuario" FontSize="Medium" />
        <Entry x:Name="usuario" FontSize="Medium"/>
        <Label Text="Contraseña" FontSize="Medium"/>
        <Entry x:Name="contrasena" FontSize="Medium" IsPassword="True"/>
        <Button Text="Entrar" FontSize="Medium" BackgroundColor="DarkSlateBlue" TextColor="White" Clicked="BuscarRegistros"/>
        <StackLayout Orientation="Horizontal" HorizontalOptions="End">
            <Label Text="Recordar el usuario"/>
            <Switch x:Name="recordar"/>
        </StackLayout>
    </StackLayout>
</ContentPage>
```

### Sistema de usuarios principal

```

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="Autenticacion.Principal">
5      <ContentPage.Content>
6      <StackLayout>
7      <Label Text="Sistema de Usuarios "
8          VerticalOptions="CenterAndExpand"
9          HorizontalOptions="CenterAndExpand" />
10     </StackLayout>
11 </ContentPage.Content>
12 </ContentPage>

```

## Código C#

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Linq;
5  using System.Text;
6  using System.Threading.Tasks;
7  using Xamarin.Forms;
8  using System.Net.Http;
9  using Newtonsoft.Json;
10
11 namespace Autenticacion
12 {
13     5 referencias
14     public partial class MainPage : ContentPage
15     {
16         5 referencias
17         public class Usuarios
18         {
19             0 referencias
20             public int idpersona { get; set; }
21             3 referencias
22             public string nombre { get; set; }
23             1 referencia
24             public string usuario { get; set; }
25             1 referencia
26             public string contraseña { get; set; }
27         }
28
29         List<Usuarios> registros;
30
31         HttpClient client;

```

```

26 public MainPage()
27 {
28     InitializeComponent();
29     client = new HttpClient();
30     client.MaxResponseContentBufferSize = 256000;
31     try
32     {
33         var Usuario = (Application.Current.Properties["usuario"].ToString());
34         if (Usuario != "")
35         {
36             var Contraseña = (Application.Current.Properties["contrasena"].ToString());
37             usuario.Text = Usuario;
38             contraseña.Text = Contraseña;
39             recordar.IsToggled = true;
40         }
41     }
42     catch
43     {
44         usuario.Text = "";
45         contraseña.Text = "";
46     }
47 }
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```

O referencias

```

51 public async void BuscarRegistros(object sender, EventArgs e)
52 {
53
54     await HttpSample();
55
56 }

```

```

58 public async Task HttpSample()
59 {
60
61     string direccion = "https://appinventor2020.000webhostapp.com/login.php?username=" + usuario.Text + "&password=" + contraseña.Text;
62     var uri = new Uri(string.Format(direccion, string.Empty));
63     var response = await client.GetAsync(uri);
64     if (response.IsSuccessStatusCode)
65     {
66         var content = await response.Content.ReadAsStringAsync();
67
68         if (content.Length <= 0)
69         {
70             await DisplayAlert("Autenticación ", "Lo sentimos no estas registrado", "OK");
71         }
72         else
73         {
74             registros = JsonConvert.DeserializeObject<List<Usuarios>>(content);
75             string s = "";
76             Usuarios usuario = new Usuarios();
77             registros.ForEach(delegate (Usuarios x)
78             {
79                 Console.WriteLine(x.nombre);
80                 s = s + x.nombre + "\n";
81                 usuario = x;
82             });
83             string mensaje = registros.Count + " Registro \n" + s;
84             await DisplayAlert("Datos ", usuario.nombre, "OK");
85
86             var inicioPage = new Principal();
87             inicioPage.BindingContext = usuario;
88             if (recordar.IsToggled)
89             {
90                 Application.Current.Properties["usuario"] = usuario.usuario;
91                 Application.Current.Properties["contrasena"] = usuario.contrasena;
92                 await Application.Current.SavePropertiesAsync();
93             }
94             else
95             {
96                 Application.Current.Properties["usuario"] = "";
97                 Application.Current.Properties["contrasena"] = "";
98                 await Application.Current.SavePropertiesAsync();
99             }
100             await Navigation.PushModalAsync(inicioPage);
101         }
102     }
103 }
104
105

```