XAML UI Controls Lab - MAUI

Perform these labs on your own computer using Visual Studio 2022 or later to ensure you understand the lessons presented in the corresponding videos and lectures.

Lab 1: Check Box

Open the Views\UserDetailView.xaml file.

In the top <Grid> control add a ",Auto" to the **RowDefinitions** attribute.

Change the <HorizontalStackLayout> element to use Grid.Row="7".

Insert the following code before the <HorizontalStackLayout> element.

```
<Label Text="Employee Perks"</pre>
        Grid.Row="6" />
<FlexLayout Grid.Row="6"</pre>
            Grid.Column="1"
            Wrap="Wrap"
            Direction="Row">
  <HorizontalStackLayout>
    <Label Text="401k" />
    <CheckBox />
  </HorizontalStackLayout>
  <HorizontalStackLayout>
    <Label Text="Health Care" />
    <CheckBox />
  </HorizontalStackLayout>
  <HorizontalStackLayout>
    <Label Text="HSA" />
    <CheckBox />
  </HorizontalStackLayout>
  <HorizontalStackLayout>
    <Label Text="Flex-Time" />
    <CheckBox />
  </HorizontalStackLayout>
</FlexLayout>
```

Open the **Resources\Styles\Styles.xamI** file and modify the CheckBox style to be BasedOn the **BaseControlStyle** keyed style.

Try It Out

Run the application and click on the **Users** menu to view the results.

Lab 2: Radio Button

Open the Views\UserDetailView.xaml file

In the top <Grid> control add a ",Auto" to the **RowDefinitions** attribute.

Change the <HorizontalStackLayout> element to use Grid.Row="8".

Insert the following code before the <HorizontalStackLayout> element.

Open the **Resources\Styles\Styles.xamI** file and modify the RadioButton style to be BasedOn the **BaseControlStyle** keyed style.

Run the application and click on the **Users** menu to view the results.

Lab 3: Picker (Drop-Down List)

Open the Views\UserDetailView.xaml file.

In the top <Grid> control add a ".Auto" to the **RowDefinitions** attribute.

Change the <HorizontalStackLayout> element to use Grid.Row="9".

Insert the following code before the <HorizontalStackLayout> element.

```
<Label Text="Phone"</pre>
        Grid.Row="8" />
<FlexLayout Grid.Row="8"</pre>
            Grid.Column="1">
  <HorizontalStackLayout>
    <Entry Grid.Column="0"
           MinimumWidthRequest="120" />
    <Picker Grid.Column="1">
      <Picker.ItemsSource>
        <x:Array Type="{x:Type x:String}">
          <x:String>Home</x:String>
          <x:String>Mobile</x:String>
          <x:String>Other</x:String>
        </x:Arrav>
      </Picker.ItemsSource>
    </Picker>
  </HorizontalStackLayout>
</FlexLayout>
```

Open the **Resources\Styles\Styles.xamI** file and modify the Picker style to be BasedOn the **BaseControlStyle** keyed style.

Run the application and click on the **Users** menu to view the results.

Lab 4: Date Picker

Open the Views\UserDetailView.xaml file.

In the top <Grid> control add a ",Auto" to the **RowDefinitions** attribute.

Change the <HorizontalStackLayout> element to use Grid.Row="10".

Insert the following code before the <HorizontalStackLayout> element.

Open the **Resources\Styles\Styles.xaml** file and modify the DatePicker style to be BasedOn the **BaseControlStyle** keyed style.

Try It Out

Run the application and click on the **Users** menu to view the results.

Lab 5: Border

Open the MainPage.xaml file and add a <Border> around the <Label>.

Run the application and view the border around the application title.

Lab 6: Add a Border Around all Views

Let's adjust all the views so they look more like a normal screen.

Open the StandardStyles.xaml file and add a new keyed style.

Open the **Views\LoginView.xamI** file and wrap a <Border> around the <Grid>.

```
<Border Style="{StaticResource Screen.Border}">
```

Open the **Views\ProductDetail.xaml** file and wrap a <Border> around the <Grid>.

```
<Border Style="{StaticResource Screen.Border}">
```

Open the Views\UserDetailView.xaml file and wrap a <Border> around the <Grid>.

```
<Border Style="{StaticResource Screen.Border}">
```

Try It Out

Run the application and click on each menu item to view the border around each screen.

Lab 7: ScrollView

Run the application and click on the **Products** menu.

Reduce the main window to show how the screen gets cut off.

Stop the application.

Open the **Views\ProductDetailView.xaml** file and wrap a <ScrollView> control around the <Border> and the <Grid> elements.

Open the **Views\UserDetailView.xaml** file and wrap a <ScrollView> control around the <Border> and the <Grid> elements.

Run the application and click on the **Products** menu, reduce the main window size to show that it now displays a scroll bar.

Lab 8: Frame

Open the Views\ProductDetailView.xaml file.

Locate the **Start Selling Date** <Label> control.

Delete the <Label> and <TextBox> controls for Selling Start Date, Selling End Date, and the Discontinued Date fields.

Add the following code where this row is.

```
<Frame Grid.Row="10"</pre>
        Grid.ColumnSpan="2"
        BorderColor="Black">
  <Grid RowDefinitions="Auto, Auto, Auto, Auto"</pre>
        ColumnDefinitions="Auto, *">
    <Label Grid.Row="0"
            Grid.ColumnSpan="2"
             FontAttributes="Bold"
            HorizontalOptions="Center"
            Text="Product Dates" />
    <Label Grid.Row="1"
            Text="Selling Start Date" />
    <Entry Grid.Row="1"
            Grid.Column="1" />
    <Label Text="Selling End Date"</pre>
            Grid.Row="2" />
    <Entry Grid.Row="2"
            Grid.Column="1" />
    <Label Text="Discontinued Date"</pre>
            Grid.Row="3" />
    <Entry Grid.Row="3"
            Grid.Column="1" />
  </Grid>
</Frame>
```

Change the Grid.Row property on the <HorizontalStackLayout> following the </Frame> to the number "11".

You can now remove two ",Auto,Auto" from the RowDefinition attribute on the top <Grid>.

Open the **Resources\Styles\Styles.xamI** file and modify the Frame style to be BasedOn the **BaseControlStyle** keyed style.

Try It Out

Run the application and click on the **Products** menu to view the result.