**The laboratory work 6**

**Update the app with Visual Studio**

1. Launch Visual Studio and open the Notes solution.
2. In **Solution Explorer**, in the **Notes** project, double-click **App.xaml** to open it. Then replace the existing code with the following code:

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| <?xml version="1.0" encoding="utf-8"?>  <Application xmlns="http://xamarin.com/schemas/2014/forms"  xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"  x:Class="Notes.App">  <Application.Resources>  <Thickness x:Key="PageMargin">20</Thickness>  <!-- Colors -->  <Color x:Key="AppBackgroundColor">WhiteSmoke</Color>  <Color x:Key="iOSNavigationBarColor">WhiteSmoke</Color>  <Color x:Key="AndroidNavigationBarColor">#2196F3</Color>  <Color x:Key="iOSNavigationBarTextColor">Black</Color>  <Color x:Key="AndroidNavigationBarTextColor">White</Color>  <!-- Implicit styles -->  <Style TargetType="{x:Type NavigationPage}">  <Setter Property="BarBackgroundColor"  Value="{OnPlatform iOS={StaticResource iOSNavigationBarColor},  Android={StaticResource AndroidNavigationBarColor}}" />  <Setter Property="BarTextColor"  Value="{OnPlatform iOS={StaticResource iOSNavigationBarTextColor},  Android={StaticResource AndroidNavigationBarTextColor}}" />  </Style>  <Style TargetType="{x:Type ContentPage}"  ApplyToDerivedTypes="True">  <Setter Property="BackgroundColor"  Value="{StaticResource AppBackgroundColor}" />  </Style>  </Application.Resources>  </Application> |

This code defines a [Thickness](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.thickness) value, a series of [Color](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.color) values, and implicit styles for the [NavigationPage](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.navigationpage) and [ContentPage](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.contentpage). Note that these styles, which are in the application-level [ResourceDictionary](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.resourcedictionary), can be consumed throughout the application. For more information about XAML styling, see [Styling](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/deepdive#styling) in the [Xamarin.Forms Quickstart Deep Dive](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/deepdive).

Save the changes to **App.xaml** by pressing **CTRL+S**, and close the file.

1. In **Solution Explorer**, in the **Notes** project, double-click **NotesPage.xaml** to open it. Then replace the existing code with the following code:

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| <?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="Notes.NotesPage"  Title="Notes">  <ContentPage.Resources>  <!-- Implicit styles -->  <Style TargetType="{x:Type ListView}">  <Setter Property="BackgroundColor"  Value="{StaticResource AppBackgroundColor}" />  </Style>  </ContentPage.Resources>  <ContentPage.ToolbarItems>  <ToolbarItem Text="+"  Clicked="OnNoteAddedClicked" />  </ContentPage.ToolbarItems>  <ListView x:Name="listView"  Margin="{StaticResource PageMargin}"  ItemSelected="OnListViewItemSelected">  <ListView.ItemTemplate>  <DataTemplate>  <TextCell Text="{Binding Text}"  Detail="{Binding Date}" />  </DataTemplate>  </ListView.ItemTemplate>  </ListView>  </ContentPage> |

This code adds an implicit style for the [ListView](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.listview) to the page-level [ResourceDictionary](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.resourcedictionary), and sets the ListView.Margin property to a value defined in the application-level ResourceDictionary. Note that the ListView implicit style was added to the page-level ResourceDictionary, because it is only consumed by the NotesPage. For more information about XAML styling, see [Styling](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/deepdive#styling) in the [Xamarin.Forms Quickstart Deep Dive](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/deepdive).

Save the changes to **NotesPage.xaml** by pressing **CTRL+S**, and close the file.

1. In **Solution Explorer**, in the **Notes** project, double-click **NoteEntryPage.xaml** to open it. Then replace the existing code with the following code:

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| <?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="Notes.NoteEntryPage"  Title="Note Entry">  <ContentPage.Resources>  <!-- Implicit styles -->  <Style TargetType="{x:Type Editor}">  <Setter Property="BackgroundColor"  Value="{StaticResource AppBackgroundColor}" />  </Style>  <Style TargetType="Button"  ApplyToDerivedTypes="True"  CanCascade="True">  <Setter Property="FontSize" Value="Medium" />  <Setter Property="BackgroundColor" Value="LightGray" />  <Setter Property="TextColor" Value="Black" />  <Setter Property="CornerRadius" Value="5" />  </Style>  </ContentPage.Resources>  <StackLayout Margin="{StaticResource PageMargin}">  <Editor Placeholder="Enter your note"  Text="{Binding Text}"  HeightRequest="100" />  <Grid>  <Grid.ColumnDefinitions>  <ColumnDefinition Width="\*" />  <ColumnDefinition Width="\*" />  </Grid.ColumnDefinitions>  <Button Text="Save"  Clicked="OnSaveButtonClicked" />  <Button Grid.Column="1"  Text="Delete"  Clicked="OnDeleteButtonClicked" />  </Grid>  </StackLayout>  </ContentPage> |

This code adds implicit styles for the [Editor](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.editor) and [Button](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.button) views to the page-level [ResourceDictionary](https://docs.microsoft.com/en-us/dotnet/api/xamarin.forms.resourcedictionary), and sets the StackLayout.Margin property to a value defined in the application-level ResourceDictionary. Note that the Editor and Button implicit styles were added to the page-level ResourceDictionary, because they are only consumed by the NoteEntryPage. For more information about XAML styling, see [Styling](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/deepdive#styling) in the [Xamarin.Forms Quickstart Deep Dive](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/deepdive).

Save the changes to **NoteEntryPage.xaml** by pressing **CTRL+S**, and close the file.

1. Build and run the project on each platform. For more information, see [Building the quickstart](https://docs.microsoft.com/en-us/xamarin/get-started/quickstarts/single-page#building-the-quickstart).

On the **NotesPage** press the **+** button to navigate to the **NoteEntryPage** and enter a note. On each page, observe how the styling has changed from the previous quickstart.