**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.