




Domenico Rosito

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- ❖ Microsoft Intern
- ❖ App Maker



A photograph of several young people sitting on a grassy lawn. They are using various electronic devices: one person is using a laptop, another is using a pink smartphone, and a third is using a purple smartphone. The scene is outdoors, likely on a campus. An orange semi-transparent box is overlaid on the right side of the image, containing the text 'New Generation' in white.

New Generation



Microsoft
DreamSpark™

Un programma che sostiene l'istruzione tecnica fornendo accesso a software Microsoft a scopi di apprendimento, didattica e ricerca.



Windows 8



Risorse per l'apprendimento



**Visual Studio 2012
Professional**

E molto altro...

A photograph of two young women smiling and taking a selfie at night. They are wearing bright orange jackets. The background is filled with out-of-focus lights, likely from a festival or city street. A purple semi-transparent box is overlaid on the left side of the image, containing the Microsoft BizSpark logo.

Microsoft®
BizSpark®



Un programma che aiuta le Software Startup a raggiungere il successo.

- ❖ Fornendo i Tool di Sviluppo
- ❖ Procurando contatti con aziende chiave del settore
- ❖ Procurando visibilità sul mercato
- ❖ Fornendo accesso alla piattaforma cloud Microsoft Azure
- ❖ Supporto tecnico e Business training

www.microsoft.com/bizspark

Due Starup di successo....

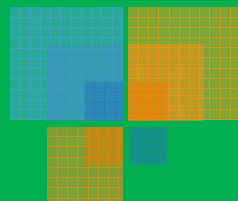
Paperlit

Ha conquistato il podio del Microsoft European BizSpark 2012 classificandosi al secondo posto tra le migliori Startup dell'anno. Offre risorse per la distribuzione mobile di contenuti editoriali tradizionali.

MopApp

Startup che sfrutta i servizi di cloud computing di Azure per offrire il monitoraggio vendite delle app. Coglie nel segno e vince l'edizione 2011 della competizione europea di Microsoft Bizspark.

Microsoft Student Partners

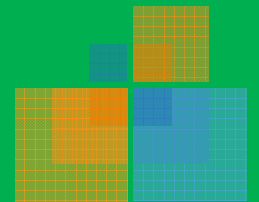


Un programma dedicato a
studenti con un particolare
background tecnico



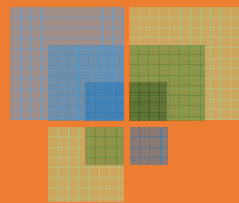


Realizzano eventi tecnici
in tutto il territorio
nazionale



www.microsoftstudentpartners.com

Windows Ambassadors



Un programma dedicato a studenti con un background non necessariamente tecnico ma con grande passione per la tecnologia



*Russia*²⁰¹³
imagine X cup™
by Microsoft®



www.imaginecup.com

La più prestigiosa
competizione sulla
tecnologia per studenti



Hai una grande idea per
una NUOVA app?

Imagine Cup è la
miglior occasione
per darle luce....

...e trasformare i
tuoi sogni in
realtà!

Più di 300.000 \$ in premio e i vincitori locali voleranno a San Pietroburgo

Games


Crea un gioco sulla tua piattaforma preferita: Windows (PC o Tablet), Windows Phone, XBOX Indie Games o Kinect!

Innovation

Usa la tua creatività per creare un'app con un'esperienza di utilizzo totalmente nuova!

World Citizenship

Crea un'app che aiuti a ridurre problemi come la fame nel mondo, i problemi ambientali, l'insegnamento nei paesi più poveri...



Windows 8, Windows Phone, Windows Azure

Io ce l'ho
fatta!





Visibilità
marketing

Corsi di
formazione

Supporto
tecnico

Microsoft® Students to Business

Un programma pensato per connettere le aziende partner e i clienti Microsoft con studenti qualificati.

Studenti



Aziende

Un set di corsi di formazione e software gratuito che incrementeranno il tuo potenziale e certificheranno le tue competenze.

Students to Business ti aiuta a trovare il giusto candidato, facendoti risparmiare tempo ed energia nel lungo processo di ricerca ed assunzione.

<http://www.microsoft.com/studentstobusiness/>

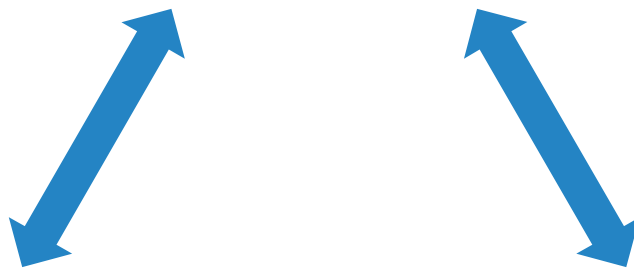
Sviluppare app per Windows 8



Creare la stessa app per
Windows 8 e Windows Phone 8
è semplice!



Windows® Azure™



Cosa serve per iniziare

Un account
sviluppatore su

dev.windows.com

Individual

- Develop apps as an individual or a small unincorporated group
- Submit Windows Store apps

Annual price: 37.00 EUR

Enroll now

Company

- Develop apps as a business
- Submit Windows Store apps and desktop apps
- Use additional app capabilities

Annual price: 75.00 EUR

Enroll now

Cosa potrebbe servire ulteriormente

SDK per
advertising

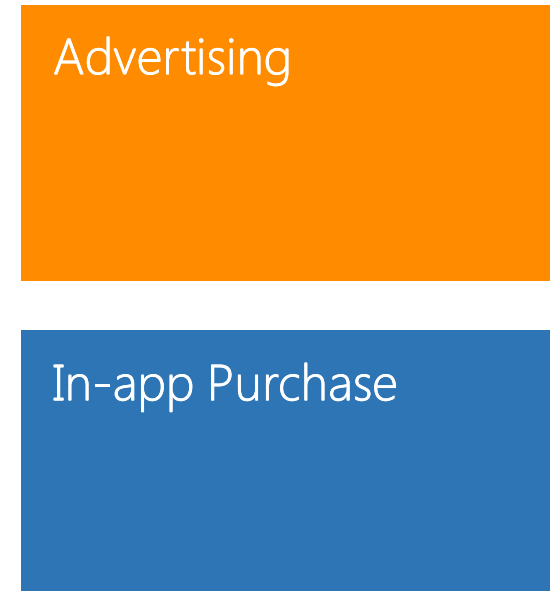
dev.windows.com

Account per
advertising

pubcenter.microsoft.com



Modalità di vendita



www.apps4windows8.it

Esempio di Privacy policy

Le mie app effettuano l'accesso a siti esterni, consumandone contenuti. Le immagini e le informazioni sono prelevate da feed disponibili al pubblico gratuitamente.

Non conservo, nè trasmetto informazioni ai server (a titolo di esempio: indirizzi IP, e-mail, informazioni sull'utente) attraverso le app. Potreste essere comunque tracciati in seguito alla visita di uno dei link proposti dall'app e vi rimando alle informazioni sulla privacy dei rispettivi fornitori.

Le informazioni relative alle vostre preferenze di utilizzo dell'app (ad esempio, la grandezza del carattere) sono in genere salvate all'interno del vostro roaming profile, che è collegato al Microsoft account (se disponibile) con il quale avete effettuato il login in Windows. Queste informazioni non vengono registrate, né trasmesse, all'esterno.

Le informazioni contenute nelle app sono aggiornate alla data di pubblicazione. Declino ogni responsabilità circa imprecisioni o errori.



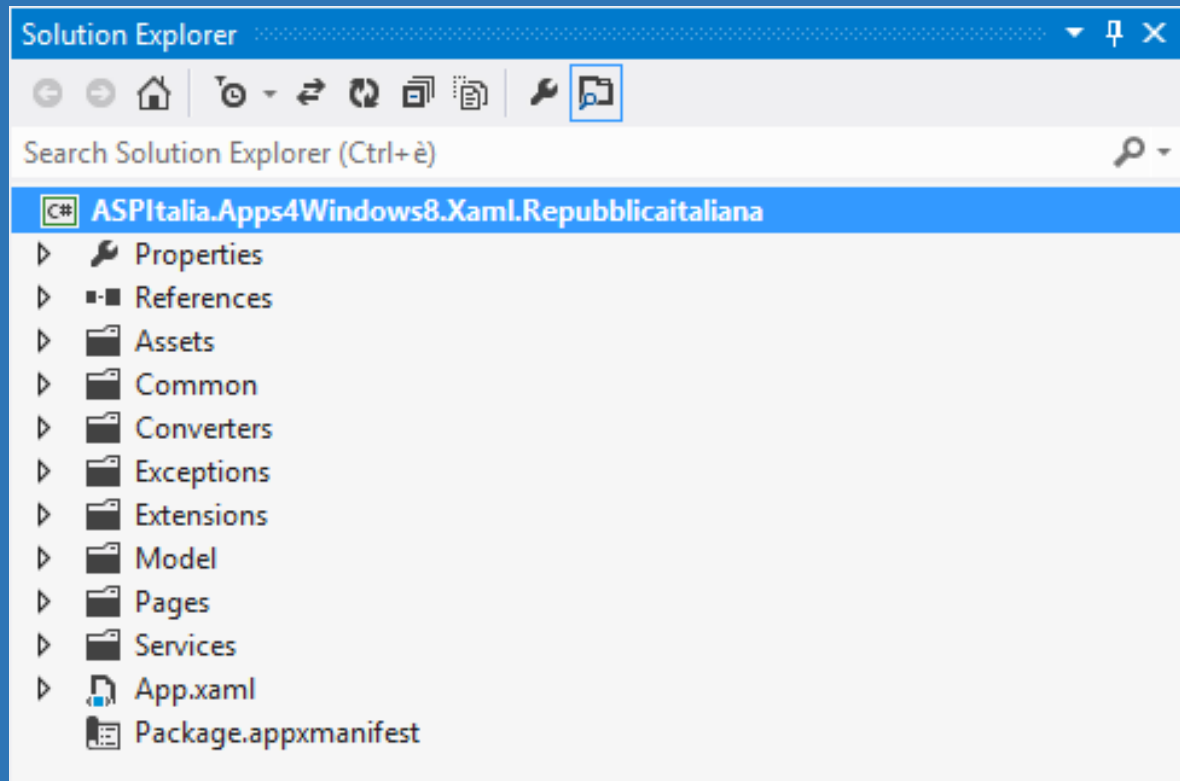
Microsoft Advertising
pubCenter

<https://pubcenter.microsoft.com>

Design and structure of a
Modern App generated
by the Framework:

www.apps4windows8.it

Project structure:



Important files:

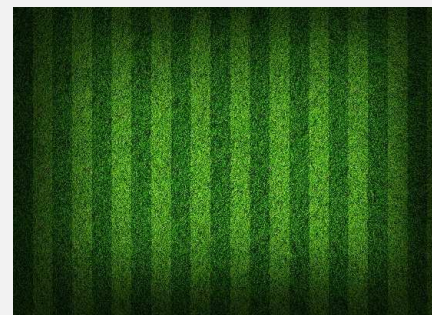
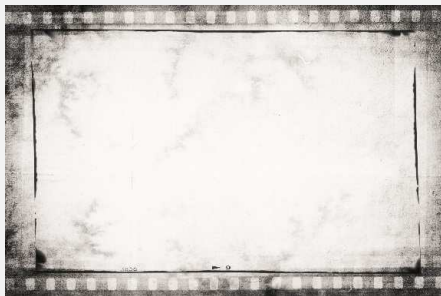
CustomStyles.xaml
(inside *Assets* folder)

Package.appxmanifest

Autogenerated.cs
(inside *Services* folder)

These are the only ones which change
depending on the user choices

Assets



It contains graphic resources and style information



CustomStyles.xaml

It contains declarations like:

```
<x:String x:Key="AppName">Repubblica Italiana RSS Unofficial</x:String>  
<SolidColorBrush x:Key="ApplicationPageBackgroundBrush" Color="#555555" />  
<SolidColorBrush x:Key="TitleForegroundBrush" Color="White" />  
<SolidColorBrush x:Key="ListViewItemPlaceholderBackgroundBrush" Color="#FF242522" />  
<SolidColorBrush x:Key="ListViewItemOverlayBackgroundBrush" Color="#B2242522" />  
<SolidColorBrush x:Key="ListViewItemOverlayForegroundBrush" Color="FFFFFFFF" />  
<SolidColorBrush x:Key="ListViewItemSelectedBackgroundBrush" Color="FF000000" />
```

It specifies the App Name and some elements colors

Pages

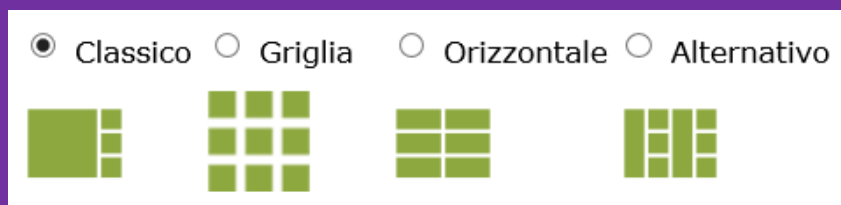
This folder contains Pages and UserControls.
Each element is composed by an XAML file and a *cs* file:

MainPage.xaml



Main Page Graphics (Home)

It can show the feeds preview managing 4 kinds of layouts:



MainPage.xaml.cs



Main Page (Home) Functionality

MainPage with Grid layout

The screenshot displays the 'INTER NEWS' section of the Inter Milan website. At the top left is the Inter Milan logo, followed by the text 'INTER NEWS'. Below this is a grid of 12 news items, each with a small image and a text preview. The background of the page features a large banner with the word 'INSIEME' and a stadium scene.

Image	Text Preview
	INTER CHANNEL: 'LIVEMATCH' SU INTER-BOLOGNA
	BERNAZZANI: "NON ERA UNA GARA FACILE"
	L'ABBRACCIO DEI BAMBINI DI INTER CAMPUS A CUBA
	INTER-BOLOGNA, 23 CONVOCATI
	C'È IL BOLOGNA, L'ALLENAMENTO DELLA VIGILIA
	ARRIVA AL MEAZZA LA "JUNIOR TIM CUP"
	ZANETTI "FIERO DI FAR PARTE DI QUESTA FAMIGLIA"
	ASPETTANDO IL BOLOGNA, TRA I PALI C'È CARRIZO
	VERSO IL BOLOGNA, NOI CI PREPARIAMO COSÌ
	UNA SORPRESA DA INTER.IT!
	LA FESTA NEL CENTRO DI MILANO
	VERSO IL BOLOGNA, CON STRAMACCIONI



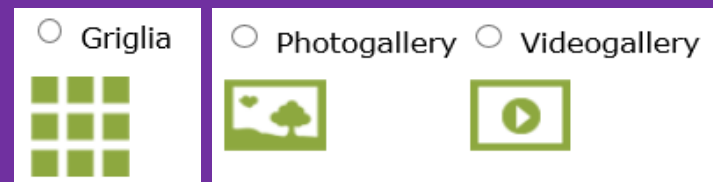
Pages

GridPage.xaml



Page Graphics

It can show feed details with three kind of layouts:
Grid, Photogallery and Videogallery



GridPage.xaml.cs



Page Functionality

GridPage with PhotoGallery layout

← Sport

Udinese-Roma 1-1, i giallorossi si allontanano dalla Champions





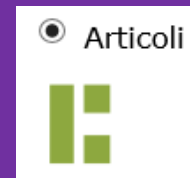
Pages

NewsGridPage.xaml



Page Graphics

It can show feed details with the News layout



NewsGridPage.xaml.cs



Page Functionality

NewsGridPage (layout News)

Mixed Metal :: Gold skirt & Silver mirrored clutch



Happy Friday everyone!



I've heard that silver and gold do not mix. But with women experimenting more with layering jewelry, I wanted to extend the concept of mixed metal to an outfit. And my mirrored clutch helped ignite this desire. Even though its dominate color is silver, it has two gold concave pyramids. Using the

clutch as the centerpiece of my inspiration board, I paired it with icy tones on top, warm hues at the bottom, and reconnected the accessories with silver pumps.



The beauty of a mirrored item is that at certain angles, it somewhat reflects whatever color it sees. We were able to capture the blue color of the sky that bounced off of the clutch. Mystery Mar was very excited. And I used it as a reflector and chased him around.





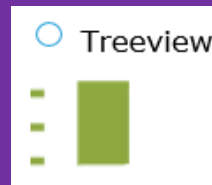
Pages

ListPage.xaml



Page Graphics

It can show the feed details with a Treeview layout



ListPage.xaml.cs



Page Functionality

ListPage (layout TreeView)

The screenshot shows a mobile application interface for a sports news page. At the top left, there is a back arrow icon and the word "News". Below this is a vertical list of news items, each with a small thumbnail image and a text headline. The first item is highlighted with a dark blue background and a white checkmark icon. To the right of the list, a larger article preview is displayed, featuring a full-width image of a player in a training kit and a text block. At the bottom of the page, there is a dark banner with the "bing" logo and the slogan "is for doing", along with a "Try it now" button.

News

- C'È IL BOLOGNA, L'ALLENAMENTO DELLA VIGILIA ✓
- LA FESTA NEL CENTRO DI MILANO
- ARRIVA AL MEAZZA LA "JUNIOR TIM CUP"
- VERSO IL BOLOGNA, CON STRAMACCONI
- STRAMACCONI "UNA VITTORIA, LA MIGLIOR RICETTA"
- PRIMAVERA: BRESCIA-INTER 0-1, VITTORIA

APPIANO GENTILE - Si è concluso da pochi minuti l'ultimo allenamento dell'Inter in vista della partita contro il Bologna, valida per la 28esima giornata della serie A Tim 2012-2013 in programma domani sera allo stadio "Giuseppe Meazza" (*calcio d'inizio ore 20.45*).

Dopo una messa in azione a secco, i nerazzurri hanno svolto una serie di torelli seguiti da un'esercitazione tecnico-tattica e da una partita finale.

bing is for doing Microsoft

Try it now >>



Pages

AboutPane.xaml



UserControl Graphics

It contains the description which appears when a user accesses the *Settings* through the charm bar and taps *Information*

AboutPane.xaml.cs



UserControl Functionality

 Informazioni

Supporto

Se hai problemi, contattaci usando il pulsante qui sotto.

Contattaci

Informazioni

Corriere Della Sera news è stata sviluppata da Academic Club apps

Versione

Versione 1.0.0



Pages

OptionsPane.xaml



UserControl Graphics

It contains the description which appears when a user accesses the *Settings* through the charm bar and taps *Options*

OptionsPane.xaml.cs



UserControl Functionality

← Opzioni

Le opzioni disponibili in questa pagina ti consentono di personalizzare l'aspetto dell'applicazione. Per tua comodità, queste impostazioni sono salvate nel tuo **roaming profile** e ti seguono quando installi l'app su un altro device.

Dimensione carattere

Abc **Abc** Abc Abc

Services

It contains service classes which help previous pages loading information and managing it.

This folder contains the only one file which changes depending on the user choices while using the Framework. (without considering *StandardStyles.xaml* and the package manifest)



Autogenerated.cs



Autogenerated.cs

Here you can change name, link and default icon for each chosen feed...

```
// Sections definitions
    private static Dictionary<SectionNames, ILoader> loaders = new
Dictionary<SectionNames, ILoader>
    {
        {SectionNames.Bari, new RemoteFeedLoader(new
Uri("http://xml.corriereobjects.it/rss/homepage_bari.xml"), IconTypeEnum.Restaurant)},
        {SectionNames.Salute, new RemoteFeedLoader(new
Uri("http://xml.corriereobjects.it/rss/salute.xml"), IconTypeEnum.Work)},
        {SectionNames.Scienze, new RemoteFeedLoader(new
Uri("http://xml.corriereobjects.it/rss/scienze.xml"), IconTypeEnum.Cinema)},
    };
```



Autogenerated.cs

Here you can define which sections will be visible, what layout you want to apply for the feed detail (third parameter), and what layout you want to apply for the feed preview (fourth parameter)

```
// it defines the visible sections on the home page
private static Dictionary<SectionNames, Func<Section>> homeSections = new
Dictionary<SectionNames, Func<Section>>
{
    { SectionNames.Bari, () => new Section(SectionNames.Bari, "Bari",
SectionTypeEnum.List, LayoutTypeEnum.Horizontal) },
    { SectionNames.Salute, () => new Section(SectionNames.Salute, "Salute",
SectionTypeEnum.List, LayoutTypeEnum.Horizontal) },
    { SectionNames.Scienze, () => new Section(SectionNames.Scienze, "Scienze",
SectionTypeEnum.PhotoGallery, LayoutTypeEnum.Horizontal) },
};
```

Application UI	Capabilities	Declarations	Packaging
Display name:	<input type="text" value="Corriere Della Sera news"/>		
Entry point:	<input type="text" value="ASPItalia.Apps4Windows.WinRT.App"/>		
Default language:	<input type="text" value="it"/> More information		
Description:	<input type="text" value="Tutte le notizie in tempo reale sul tuo computer"/>		
Supported rotations:	An optional setting that indicates the app's orientation preferences.		
	<input type="checkbox"/> Landscape	<input type="checkbox"/> Portrait	<input type="checkbox"/> Landscape-flipped
		<input type="checkbox"/> Portrait-flipped	
Tile:			
Logo:	<input type="text" value="Assets\Logo.png"/>		<input type="button" value="x"/> <input type="button" value="..."/>
	Required size: 150 x 150 pixels		
Wide logo:	<input type="text" value="Assets\WideLogo.png"/>		<input type="button" value="x"/> <input type="button" value="..."/>
	Required size: 310 x 150 pixels		
Small logo:	<input type="text" value="Assets\SmallLogo.png"/>		<input type="button" value="x"/> <input type="button" value="..."/>
	Required size: 30 x 30 pixels		
Short name:	<input type="text"/>		
Show name:	<input type="text" value="All Logos"/>		
Foreground text:	<input type="text" value="Dark"/>		
Background color:	<input type="text" value="#ffffff"/>		

Package.xappmanifest



It contains general information about the App. It allows you to change the logos default folders and to define:

- *Short name*: the shortened app name
- *Show name*: it specifies which logos will show the app name
- *Foreground text*: it specifies the text color on the tiles
- *Background color*: the background tiles color

Application UI	Capabilities	Declarations	Packaging
Display name:	<input type="text" value="Corriere Della Sera news"/>		
Entry point:	<input type="text" value="ASPItalia.Apps4Windows.WinRT.App"/>		
Default language:	<input type="text" value="it"/>	More information	
Description:	<input type="text" value="Tutte le notizie in tempo reale sul tuo computer"/>		
Supported rotations:	An optional setting that indicates the app's orientation preferences.		
	<input type="checkbox"/> Landscape	<input type="checkbox"/> Portrait	<input type="checkbox"/> Landscape-flipped
			<input type="checkbox"/> Portrait-flipped
Tile:			
Logo:	<input type="text" value="Assets\Logo.png"/>		<input type="button" value="x"/> <input type="button" value="..."/>
	Required size: 150 x 150 pixels		
Wide logo:	<input type="text" value="Assets\WideLogo.png"/>		<input type="button" value="x"/> <input type="button" value="..."/>
	Required size: 310 x 150 pixels		
Small logo:	<input type="text" value="Assets\SmallLogo.png"/>		<input type="button" value="x"/> <input type="button" value="..."/>
	Required size: 30 x 30 pixels		
Short name:	<input type="text"/>		
Show name:	<input type="text" value="All Logos"/>		
Foreground text:	<input type="text" value="Dark"/>		
Background color:	<input type="text" value="#ffffff"/>		

Package.xappmanifest



The Default Language has to be consistent with the information language coming from the chosen feed

...if not, the App will not pass the Windows Store certification



Package.xappmanifest

Notifications:

Badge logo: Required size: 24 x 24 pixels

Toast capable:

Lock screen notifications:

Splash Screen:

Splash screen: Required size: 620 x 300 pixels

Background color:

- *Badge logo*: the lock screen logo
- *Toast capable*: specifies if the app can be enabled to use toast notifications
- *Lock screen notifications*: specifies if the app can be enabled to show information in the lock screen
- *Splash screen*: the splash screen logo
- *Background color*: the splash screen background



Package.xappmanifest

Some features must be specified in the *Capabilities* section of the *Package Manifest*, so that the App can be authorized to have access to those capabilities.

When you specify a feature in this section, it will be automatically showed in the *Authorization* menu in the *App Settings*.

Application UI

Capabilities

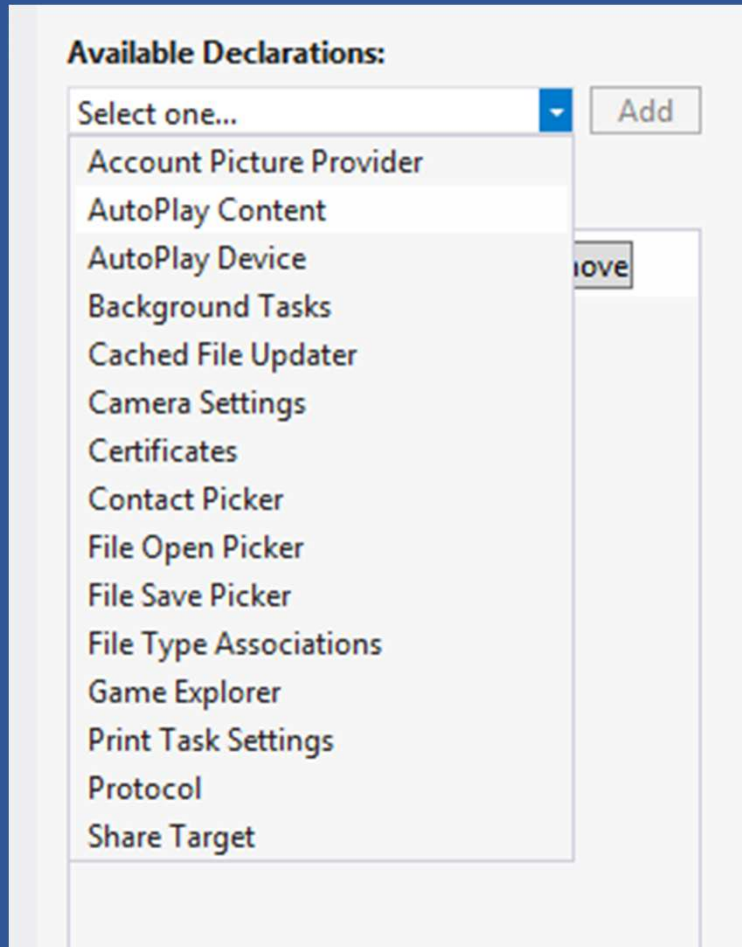
Use this page to specify system features or devices

Capabilities:

- Documents Library
- Enterprise Authentication
- Internet (Client)
- Internet (Client & Server)
- Location
- Microphone
- Music Library
- Pictures Library
- Private Networks (Client & Server)
- Proximity
- Removable Storage
- Shared User Certificates
- Videos Library
- Webcam



Package.xappmanifest



Other features must be declared here, usually together with some parameters...

- ✓ If you want to use a *File Open Picker*, you have to declare what kind of files the App can open
- ✓ If you want to use a Background Task, you need to declare if it is an audio task, a system event, a control channel, a timer, or a push notification
- ✓ If the App uses the Search function, you have to declare it here
- ✓ ...

Some typical customizations

How to change the shown number of elements?

How to change a page background?

How to change the settings page text?

How to change the background?

```
<Grid Style="{StaticResource LayoutRootStyle}"  
Background="WhiteSmoke">  
  <Grid.RowDefinitions>  
    <RowDefinition Height="140" />  
    <RowDefinition Height="Auto" />  
    <RowDefinition Height="*" />  
  </Grid.RowDefinitions>  
  
  <Grid>  
    <Grid.ColumnDefinitions>  
      ...
```

Find the root element inside the XAML and insert:

Background = "[color]"

where [color] can be a color name (ex: White, Red, Green...) or a color code, like #AARRGGBB

How to change the background?

```
<Grid Style="{StaticResource LayoutRootStyle}">  
    <Grid.Background>  
        <ImageBrush ImageSource="ms-appx:///soccer.jpg" Stretch="UniformToFill"/>  
    </Grid.Background>
```

If you want to use a background image you need to insert:

```
<Grid.Background>  
    <ImageBrush ImageSource="ms-appx:///[imagepath]" Stretch="UniformToFill"/>  
</Grid.Background>
```

where [imagepath] is the path of the image in the project

How to change the number of elements in MainPage?

You just need to search the constant `MAX_ELEMENTS` inside *MainPage.xaml.cs* and change its value

```
public sealed partial class MainPage :
    ASPItalia.Apps4Windows.WinRT.Common.LayoutAwarePage
{
    const int MAX_ELEMENTS = 6;
    // number of elements in Main Page

    public MainPage()
    {
        this.InitializeComponent();
    }
}
```

How to change the text in the Settings page?

For the text in the *Options menu*, open the *OptionsPane.xaml* page, search the *TextBlocks* and change their associated texts.

```
<TextBlock  
FontSize="16"TextWrapping="Wrap"  
TextAlignment="Justify">Options  
available in this page let you  
customize the graphics of your app.  
These settings will be saved in your  
roaming </TextBlock>
```

The same operation can be done for the *AboutPane.xaml* page.

Remember: you can always use the designer for a more comfortable editing.



The image displays a side-by-side comparison of a WPF page in its visual designer and its XAML code. On the left, the visual designer shows an orange rectangular area with a white border and several small handles for resizing. The text within the designer is: "Supporto", "Se hai problemi, contattaci usando il pulsante qui sotto.", "Contattaci", "Informazioni", "è stata sviluppata da", and "Versione". On the right, the XAML code defines the visual structure. It starts with a `<StackPanel Background="Orange" Orientation="Vertical">` tag. Inside, there are several `<TextBlock>` elements for the text, a `<Button Click="NavigateToContacts" Content="Contattaci" />` element, and a `<TextBlock>` element containing a `<Run x:Name="Name" />` and `<Run x:Name="Publisher" />` element. The code also includes a `<TextBlock>` element for the version number, which is bound to a `<Run x:Name="VersionNumber" />` element. The code ends with `</StackPanel>` and `</UserControl>` tags.

```
d:Designwidth= 456 >
<StackPanel Background="Orange"
Orientation="Vertical">
<TextBlock Style="{StaticResource SubheaderTextStyle}" Foreground="#336699" Margin="0,0,0,10">Supporto</TextBlock>

<TextBlock TextWrapping="Wrap"
Style="{StaticResource BodyTextStyle}"
TextAlignment="Justify"
Margin="0,0,0,0">Se hai problemi, contattaci usando il pulsante qui sotto.</TextBlock>

<Button Click="NavigateToContacts"
Margin="0,20,0,40"
Style="{StaticResource MyTextButtonStyle}"
Content="Contattaci" />

<TextBlock Style="{StaticResource SubheaderTextStyle}" Foreground="#336699" Margin="0,20,0,10">Informazioni</TextBlock>
<TextBlock
TextWrapping="Wrap"
TextAlignment="Justify"
Style="{StaticResource BodyTextStyle}"
Margin="0,0,40,40">
<Run x:Name="Name" />
<Run > è stata sviluppata da </Run>
<Run x:Name="Publisher" />
</TextBlock>

<TextBlock Style="{StaticResource SubheaderTextStyle}" Foreground="#336699" Margin="0,20,0,10">Versione</TextBlock>
<TextBlock Margin="0,10,0,0" FontSize="14" Style="{StaticResource BodyTextStyle}">Versione <Run x:Name="VersionNumber" />
</StackPanel>
</UserControl>
```

Other typical customizations

How to add a new custom page?

How to insert a new section?

How to add a new section?

```
public enum SectionNames
{
    News,
    NewSection
}
```

- 1) Go in *Autogenerated.cs*
- 2) Insert a new element in the *SectionNames* enumeration (*NewSection*)

How to add a new section?

```
private static Dictionary<SectionNames, ILoader> loaders = new Dictionary<SectionNames, ILoader>
{
    {SectionNames.News, new RemoteFeedLoader(new Uri("http://address.xml"), IconTypeEnum.News)},
    {SectionNames.NewSection, new RemoteFeedLoader(new Uri("http://address2.xml"),
IconTypeEnum.News)},
};

private static Dictionary<SectionNames, Func<Section>> homeSections = new Dictionary<SectionNames,
Func<Section>>
{
    { SectionNames.News, () => new Section(SectionNames.News, "News", SectionTypeEnum.List,
LayoutTypeEnum.Grid) },
    { SectionNames.NewSection, () => new Section(SectionNames.NewSection, "NewSection",
SectionTypeEnum.List, LayoutTypeEnum.Grid) },
};
```

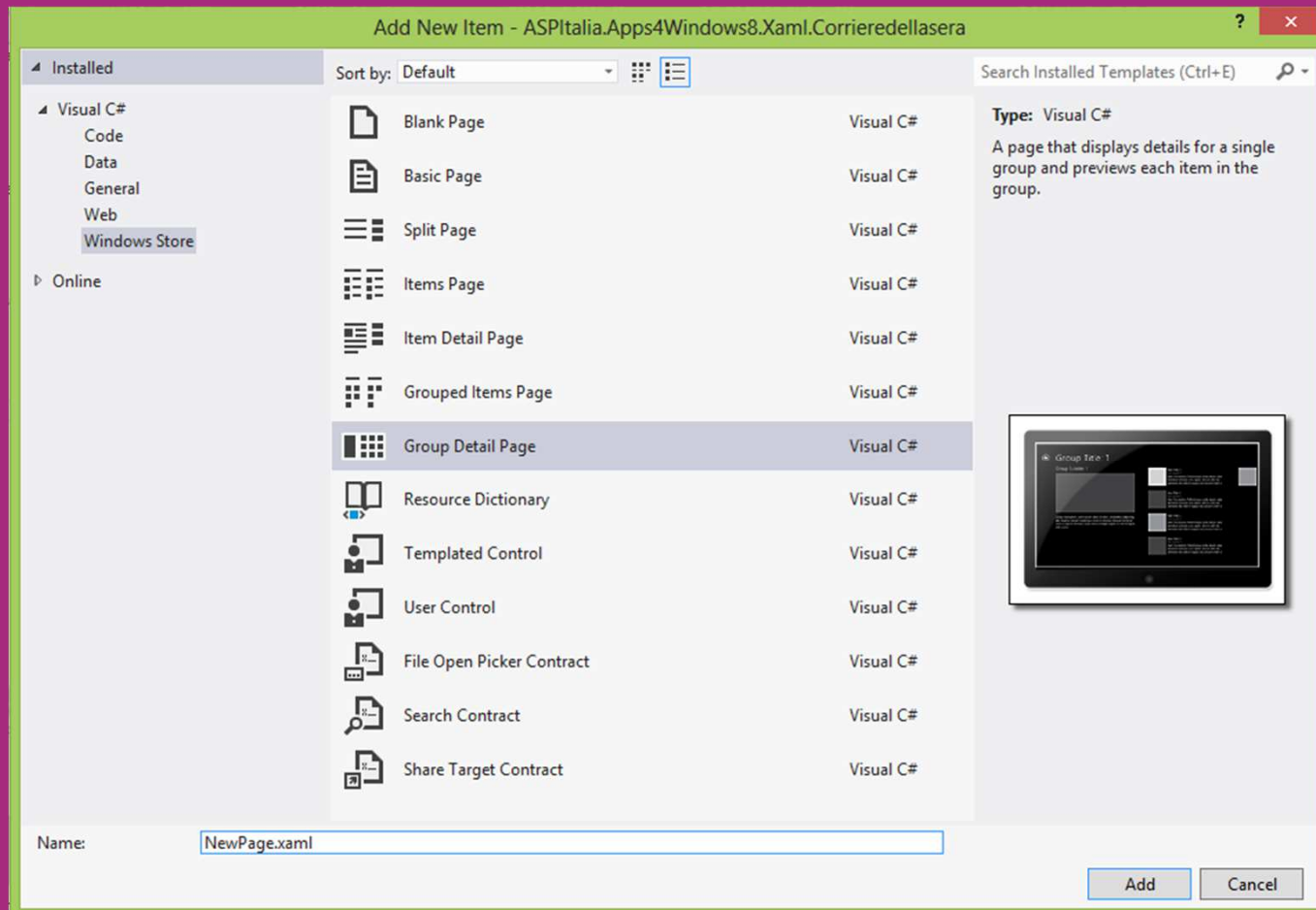
3) Add the *NewSection* elements in both the dictionaries

How to add a custom new page?

```
<Button Tapped="Button_Tapped_1"  
HorizontalAlignment="Right" Width="250"  
Height="250"/>
```

- 1) Add a button in *MainPage.xaml* and specify an event handler for the *Tapped* event. In this case we chose *Button_Tapped_1*

How to add a new custom page?



2) Add a new page to the project and call it *NewPage.xaml*

You can choose, for example, the Group Detail Page Template

How to add a new custom page?

3) Insert the following code to navigate to the new page when the button is tapped:

```
private void Button_Tapped_1(object sender, TappedRoutedEventArgs e)
{
    Frame.Navigate(typeof(NewPage));
}
```

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