

# SILVERLIGHT 5 IN ACTION Read Free

Chapter 1. Introducing Silverlight. About this Book. Silverlight 5 in Action.



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**Human input Chapter Text fundamentals Chapter Editing plain and rich text Chapter Control basics and UserControl Chapter Animation and behaviors Chapter Resources, styles, and control templates Chapter Extensions, converters, custom controls, and panels Part 3. Working with data and services Chapter Binding Chapter Input validation Chapter Networking basics Chapter Duplex, sockets, and local connections Part 4. Graphics and effects Chapter Working with images Chapter Introduction to 3D Chapter** The most common ones are shown in the following screenshot: There are plenty of commercial libraries available. This window lets the user see the meeting room reservations which are already made, as well as edit them, or create new ones. One of them will contain a DataGrid control, which shows the list of reservations assigned to our account. The last one will contain the buttons that will permit us to execute commands such as New, Save, and Delete.

Next, we must add a DataGrid control to the layout and indicate the row in which its parent container will be assigned: The easiest way to insert DataGrid control is by dragging it directly from the Toolbox window in Visual Studio and then dropping it in our layout it adds all the necessary references for us. If we execute the application, the result is not very appealing. We will only see a white rectangle that represents the DataGrid control. We will learn how to manage this control in subsequent chapters. For now, we will add some column definitions to make it look more similar to the following example screen. To make it easier, we have to select the DataGrid object and use the Properties tab. On the other hand, we will define the columns manually, clicking on the property Columns. We now move to the detailed area. The easiest thing to do here will be to design the page using Expression Blend or Visual Studio. We will use the knowledge acquired in this chapter to design the window manually using grid control.

To do this, we must define the following area of rows and columns: The generated XAML can be seen in the code that follows. A few things should be taken care of. They are: We use Margin properties to assign space between grid rows, as well as between labels and controls. To lay out labels and controls, we will use a StackPanel control and adjust the orientation property, setting it to vertical or horizontal, as applicable another valid approach to position them is to play with each Margin property of each control, this margin being related to its container cell. For the Comments textbox to occupy all of the grid width, we add a property called ColSpan. We will add the control panel in the lower part of the window to complete the layout. We will use a StackPanel container with horizontal orientation to do so. In this chapter, we have assimilated the fundamentals of Silverlight architecture, installed the necessary tools, implemented the classic 'Hello World' project, and learned some basic concepts related to XAML.

In the next chapter, we will begin with some concepts concerning management applications. Similarly, we will learn how to add windows and dialogs, as well as how to implement navigation between those windows. If you haven't worked with Silverlight before, you probably couldn't get enough of this chapter. Likewise, you can find more information at the following sites: He is also a Silverlight MVP, consultant, technical writer, open source developer, trainer, and speaker. She has worked as a translator and editor for Custom PC Spain, as well as for other relevant magazines

and websites. Her main areas of expertise are IT hardware, software, networking, videoconferencing, Internet, etc.

He is also an experienced teacher and an active participant in the Developer Community. Sebastian Stehle is a software engineer from Germany. He is an enthusiastic Silverlight developer, author of the ImageTools library and co-founder of the SilverDiagram group. He is also interested in game development and service-oriented architecture. Reyes has a long experience as a multidisciplinary consultant. Nowadays, she is devoted to teaching and writing technical articles. About this book Microsoft Silverlight is fully established as a powerful tool for creating and delivering Rich Internet Applications and media experiences on the Web. Publication date: February Publisher Packt. Pages ISBN Chapter 1. Express Introduction to Silverlight. Introduction to Silverlight. We can decouple business presentation and implement an architecture at the client side. Note In case you cannot install Visual Studio , the version of the product will provide you with an interaction limited to Silverlight 3, hence you will not be able to follow all of the contents of this book.

Silverlight architecture. This XAP file is stored on our web server. Creating the Hello World project. How to create a new project How to encode directly into the markup language How to drag elements from the Toolbox palette and configure them using Properties How to respond to an event and call a Code-Behind method.

Creating a new project. We can clearly see every element of the solution in the following figure:. Coding directly into the markup language. Information from the Web Learn more about where we find additional information on the web. Checking the Web Library Staff Details Staff view. Keyboard Shortcuts Close Available anywhere? Shortcut help message s Highlight search box esc Close dialog. Available in search results n Next page p Previous page f Toggle filters Open nth result on page.

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Business seller information. Contact details. Return policy. Shipping and handling. The seller has not specified a shipping method to Finland. Contact the seller - opens in a new window or tab and request shipping to your location. Shipping cost cannot be calculated. Please enter a valid ZIP Code. Shipping to: Worldwide. No additional import charges at delivery! This item will be shipped through the Global Shipping Program and includes international tracking. Of course, it will be the classic Hello World. On this occasion, we will use the example to learn:. To create a new project, we must launch Visual Studio. Once the route and type of project has been chosen, a dialog will appear, asking us if we want to create a web project to host our Silverlight application. Silverlight project: The wizard creates an entry point. In the default MainPage, we can see the layout definition MainPage.

It is advisable to remember that this Code-Behind is executed at the client side and not at the server side. Web project: This simply consists of an ASP. In this section, we will add our first Silverlight controls, encoding them directly into the markup language. We will see next how to carry out the same operation via drag-and-drop.

Add a text block containing the expression Hello World. To do this, we will enter the following code:. It is highly recommended that you have a good knowledge of the XAML markup language and some experience practicing it. Nevertheless, if you intend to make a rapid prototype or just need to begin developing immediately, you can use the drag-and-drop controls from the toolbar directly in to the form as in a WinForms application.

You can also edit the features of a control by accessing the Properties window as shown in the following screenshot:. In order to achieve a higher control over the windows layout with the aim to, for example, achieve an optimal disposition of the controls in different resolutions , we suggest learning the XAML markup language or using Expression Blend, which is a tool for designers and developers. In the following example, we will allow the user to change the message Hello World! Starting from the previous example, we will follow the given steps:. Replace the XAML code inserted in the previous example by the one highlighted as follows we have added an additional textbox, a button, and identifiers for the controls.

When we build and execute the project, we realize that our window now has the aspect as shown in the following screenshot:. Next, we must implement the response to the Click event of the Change button. As soon as we start typing, IntelliSense Microsoft's implementation of autocompletion will ask us if we want to create the method hitting Enter or Tab would create the method with the default name or with the name of the control after selecting a Click event. Execute the same operation from the Properties panel or by directly double-clicking on the button control :. In Code-Behind, in the method invoked by the Click event, we must add a line of code, which transfers the text content entered by the user to the tag where we showed 'Hello World'. Now that we have taken our first steps with Silverlight, let's have a quick introduction to some basic concepts in XAML.

Specifically, XAML can initialize objects and set properties of objects, using a language structure that shows hierarchical relationships between multiple objects, and uses a backing type convention that supports extension of types. XAML is a modern language, adapted to the current needs of users and implemented from scratch whereas HTML suffers from organic growth. We have only one way to implement it, which avoids us headaches derived from the problems of adaptation with different browsers and their versions. When you work with HTML, you build the basic visual structure of a page by using tables or divs in more modern browsers, you can use a canvas as well. This layout control permits us to place Child controls in coordinates relative to the canvas parent taking into account that the upper-left corner of the canvas is the 0,0 coordinate X, Y, ZZ for the ZIndex. It is perfect for the

implementation of drawing applications or those devoted to diagram management. Top and Canvas. Left are attached properties.

Such properties allow a child element to store a value associated with a property defined on an ancestor element. The StackPanel control allows us to pile up child controls in horizontal or vertical rows. We can nest several StackPanel controls. This combination makes it possible to implement complex layouts, as shown in the following code and the resulting screenshot:. A grid permits us to place content in rows and columns. The concept is similar to an HTML table, but much more evolved. Before you start adding controls to the grid, you need to specify its layout. This is done with the Grid. RowDefinitions and Grid. ColumnDefinitions collection.

To set the position of the element inside the grid, we use the attached properties Grid.

Row and Grid. The first position starts at 0. Silverlight offers us a series of user controls, which are available in the Toolbox palette. The most common ones are shown in the following screenshot:. There are plenty of commercial libraries available. This window lets the user see the meeting room reservations which are already made, as well as edit them, or create new ones. One of them will contain a DataGrid control , which shows the list of reservations assigned to our account. The last one will contain the buttons that will permit us to execute commands such as New, Save , and Delete. Next, we must add a DataGrid control to the layout and indicate the row in which its parent container will be assigned:. The easiest way to insert DataGrid control is by dragging it directly from the Toolbox window in Visual Studio and then dropping it in our layout it adds all the necessary references for us.

If we execute the application, the result is not very appealing. We will only see a white rectangle that represents the DataGrid control. After January 14, , customers using Silverlight on Windows 7 will no longer be supported and will no longer receive automatic security updates. Microsoft is not planning to take any specific action to terminate Silverlight applications. After this date, however, Silverlight will be in an unsupported state and will not receive any future quality or security updates. While support will be ending in October , this date does not affect the license, which continues in effect for as long as the customer is using the software and complies with the terms of the license. There are no plans for extending Silverlight support beyond the existing support dates listed here. The microsoft. However, the Silverlight installer will no longer be available after the end of support date of October 12,

There are various options for migrating applications from Silverlight.

We recommend that you evaluate the requirements of the application that you are migrating and determine the technology that best suits the application in question:. If your application is web-based, we recommend that you look into Blazor , which allows re-usability of .NET Silverlight code. Both client and server code are written in C , allowing you to share code and libraries. IE mode supports all document and enterprise modes, Active X controls such as Java or Silverlight , and more. The Silverlight installer is not licensed for redistribution. Windows 7 Silverlight More What is the current level of support Microsoft will provide for Silverlight? Windows 7 will reach its end of support date on January 14, What happens on October 12, ? Will existing applications stop working?