

Curso Silverlight 5 Usando C#

Descripción: Silverlight de Microsoft es una tecnología Web del lado del cliente que permita la implementación de aplicaciones Web visualmente impresionantes que dependen sólo de un pequeño, fácil de instalar plug-in que funciona en los navegadores para Windows y Macintosh. Silverlight proporciona una multi-plataforma y multi-navegador implementación del *framework* .NET. Compatibilidad fuera del explorador permite a las aplicaciones de Silverlight ejecutarse desconectado de Internet. Las aplicaciones de Silverlight se puede implementar en .NET como C # y Visual Basic, así como en JavaScript.

Este curso de 32 horas ofrece al programador de C # una base sólida en Silverlight 5. Posteriormente, el curso muestra cómo utilizar Silverlight para dibujar formas, líneas, texto e imágenes. La distribución de los controles se discute en detalle, incluyendo el tamaño y la posición de los mismos y el uso de los paneles

Se cubre el control de eventos. Hay una introducción a Silverlight animación y el uso de video y audio. Se cubre problemas de red, incluyendo el almacenamiento en caché, las transferencias de datos asincrónicas, y la descarga de los *assemblies* y recursos en demanda. Se discute el uso tanto de SOAP y REST basados en servicios web.

The course concludes with a chapter covering new features in Silverlight 5.

Audiencia: Programadores que necesitan crear aplicaciones web usando Silverlight.

Prerrequisitos: Una comprensión básica de desarrollo de aplicaciones web utilizando HTML y experiencia en programación en .NET con C #. Un conocimiento básico de ADO.NET es deseable para el capítulo de acceso a datos

Número de horas: 32

Contenido

1. Introduction to Silverlight

- What Is Silverlight?
- Silverlight and AJAX
- Silverlight and Flash
- Silverlight Tools
- XAML
- XHTML
- Automatic Plug-In Download
- Using Visual Studio 2010
- Hosting the Silverlight Application
- MainPage.xaml
- MainPage.xaml.cs
- Designer Support
- Layout Panels
- Using a StackPanel
- Handling Events in Managed Code
- Events Window
- Adding Events in XAML
- Code-Behind File
- Names of XAML Elements
- Silverlight Controls
- Application Package (.xap)

2. Using XAML

- Windows Presentation Framework
- What Is XAML?
- Root Element
- Default Namespace
- XAML Namespace
- Canvas
- An Opaque Ellipse
- Property Element
- Type Converters
- Content Element Syntax
- Collection Syntax
- Implicit Collection Syntax
- Attached Properties
- XAML and C#
- Assigning Property Values
- Using the XAML Namespace
- Assigning Simple Properties
- Properties Attached to Canvas
- Assigning Attached Properties
- XamlReaderLoad()
- BrushFromString()
- Navigating from the Root
- MainPage.xaml
- Code-Behind File
- Using an Event Sender
- Handling an XAML Event

3. Shapes and Lines

- Shapes
- Size and Position
- Rectangle and Ellipse
- MainPage.xaml
- MainPage.xaml.cs
- More Shape Properties
- Opacity and Visibility
- Receiving Mouse Events
- Polygon
- Line
- Dashed Lines
- Polyline
- Path
- Arc Segments
- Bezier Curves
- Clipping

4. Texts and Fonts

- TextBlock
- Text Wrapping
- Font Attributes
- Font Families
- Font Weights
- Additional TextBlock Properties
- TextBlock Dimensions
- ActualWidth and ActualHeight
- Rich Text Content
- Run and LineBreak

5. Brushes and Images

- Brushes
- SolidColorBrush
- Predefined Color Names
- RGB Color Space
- Enhanced RGB Color Space
- Gradient Brushes
- Linear Gradient Brushes
- Default Gradient Axis
- Horizontal and Vertical Gradient Axis
- Color Interpolation Mode
- Spread Methods
- Repeat and Reflect
- Alpha Channel Changes
- Painting Other Shapes
- Radial Gradient Brushes
- GradientOrigin
- ImageBrush
- Using an ImageBrush with Text
- Image
- Stretch Property
- Code-Behind File

6. Layout

- Layout in Silverlight
- Controlling Size
- Margin and Padding
- Thickness Structure
- Alignment
- Panels
- Grid
- Using the Collections Editor
- Star Sizing
- Grid.ColumnSpan
- Positioning on a Canvas
- Moving Elements
- Z-Order
- Clipping

7. Handling Events

- Events in Silverlight
- Event Handlers in XAML
- Adding/Removing Event Handlers
- Loaded Event
- Mouse Events
- Microsoft Silverlight Configuration
- MouseEventArgs
- C# Code
- Rubber-Band Drawing
- Naïve Implementation
- drawRect() Helper Function
- Final Implementation
- Drag and Drop
- Drag and Drop – XAML File
- Drag and Drop – Code-Behind
- Capturing the Mouse
- Routed (or “Bubbled”) Events

8. Animation and Media

- Manual Animation
- Silverlight Animation
- Storyboard Methods
- User Interface
- DoubleAnimation
- ColorAnimation
- ColorAnimation – Code-Behind
- PointAnimation
- Audio and Video
- Resources
- Loose Files as Resources

9. Application Structure and

- Networking
- Silverlight Application Structure
- A Simple Package
- Application Package
- Application Manifest
- Application Class
- XML Processing
- Image Resource Files
- Resource File in a Component
- Resource File in the Package
- Application Library Caching
- External Parts
- CopyLocal is False
- Using WebClient
- Location to DLL to Download
- Downloading Content on Demand
- DownloadImage Code

10. Web Services

- Accessing Web Services in Silverlight
- REST
- EchoREST Web Service
- SOAP
- Web Service Proxies
- Windows Communication Foundation
- EchoSOAP Web Service

11. Data Controls and Data Binding

- ListBox Control
- Book.cs
- Auto-Implemented Properties
- Using Items Property
- Deleting a Book
- Selection
- Binding to a Collection
- DataPager Control
- DisplayMode
- DataGrid Control
- Paging with DataGrid
- Sorting with DataGrid
- More about Data Binding
- Dependency Properties
- Binding Object
- ElementName Binding
- Binding to a CLR Object
- Change Notification
- Updating the Book Object
- INotifyPropertyChanged
- Notification with Collections
- Book Class
- MainPage.xaml.cs
- Updating Collection Elements
- Notification by Collection Elements
- Notification in Book Class

12. Data Access

- Accessing Data on the Server
- SmallPub Database
- ADO.NET Entity Framework
- SmallPub Tables
- SmallPub Entity Data Model
- Entity Data Model Concepts
- Querying the EDM
- Class Diagram
- Context Class
- List of Categories
- List of Books
- Language Integrated Query (LINQ)
- IntelliSense
- Modifying a Data Source
- Entity Framework in a Class Library
- Data Access Class Library
- Client Code
- Silverlight Database Clients
- Adding a Web Service
- Consuming a Web Service
- Modifying the Configuration File
- Auto-Generated Columns
- WCF Data Services
- Choosing Data Objects
- BookModel.edmx
- WCF Data Service Template
- DataService Class
- A REST-based Web Service
- Disabling Feeds
- Open Data Protocol (OData)
- OData and WCF Data Services
- OData Feeds
- Metadata for OData Services
- URI Conventions
- Resource Path Options
- Query String Options
- OData Operations
- A Console Client
- A Silverlight Client
- Accessing XML Data
- Accessing an XML File
- Using LINQ to XML
- Isolated Storage
- Isolated Storage Store
- Saving Data to a File
- Loading Data from a File
- Deleting a File

13. Additional Features

- HTML Bridge
- HTML and JavaScript
- HtmlPage Class
- JavaScript from Managed Code
- Managed Code from JavaScript
- Out-of-Browser Support
- Configuring Out-of-Browser Support
- Installing Out-of-Browser
- Running Out-of-Browser
- Application Manifest
- Elevated Trust
- Printing
- Print Dialog Box
- Printing Code
- Clipboard Access

14. New Features in Silverlight 5

- 3D Graphics in Silverlight
- XNA SoundEffect API
- Audio File Formats and Codes
- Audio Files on the Web
- Downloading Audio Files
- Audio File Conversion
- Using the SoundEffect Class
- Variable Rate Playback (Trick Play)
- Trick Play Example Code
- Trusted Applications
- PivotViewer Control
- PivotViewer Features
- Utility Class
- DemolItem Class
- PivotViewer Collection
- PivotViewer Assembly and Namespace
- PivotProperties
- Running the Example
- Some Experiments
- Color Converter
- Template Definition
- Breakpoints in XAML Data Binding
- XAML Data Binding Enhancements

Incluye: Diploma de participación en el curso y material de entrenamiento.

Formas de pago:

Este pago debe realizarse en una sola exhibición de las siguientes maneras:

- ❖ Depósito en Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V. (CLABE en caso de transferencia electrónica vía Internet 002180057549232394)
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