

WPF 4.5

Lesson 00:



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Document History



Date	Course Version No.	Software Version No.	Developer / SME	Reviewer	Approver	Change Record Remarks
21-Oct-09	1.0	Visual Studio 2008	Ganesh Desai			Initial Document
21-Oct-09	1.0	Visual Studio 2008	Ummeaiman Diwanji			Quality Review, Transfer to new template.
15-July-2011	2.0	Visual Studio 2010	Ganesh Desai			Changes made as per integration process
28-Aug-2012	3.0	Visual Studio 2010	Abishek Radhakrishnan			Changes made as per new curriculum
6-June-2016	4.0	Visual Studio 2013	Nachiket Inamdar	Ganesh Desai	Mahima Sharma	Material revamped as per the Ceggemini integrated Course Curriculum .

Course Goals and Non Goals

➤ Course Goals

- To know what is WPF
- To learn XAML and its features
- To implement Styles, resources and Markup extensions
- Work with WPF property System
- Understand WPF Event Model
- Work with WPF Data Binding

➤ Course Non Goals

- Using tools like expression Blend



Pre-requisites



- .NET Framework with C# 5.0 & Winforms
- ADO.NET

Intended Audience

- Developers



Day Wise Schedule



➤ Day 1

- Lesson 1: Overview of WPF 4.5
- Lesson 2: Introduction to XAML
- Lesson 3: UI Layouts and Controls
- Lesson 4: Styles, Resources, and Shapes

➤ Day 2

- Lesson 5: WPF Event Model
- Lesson 6: Data Binding in WPF
- Lesson 7: Live Shaping and Async in WPF

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- Lesson 1: Overview of WPF
 - 1.1. Overview of WPF
 - 1.2. WPF Design Principles
 - 1.3. Key features of WPF
 - 1.4. Architecture of WPF
- Lesson 2: Introduction to XAML
 - 2.1. Introduction to XAML
 - 2.2. WPF Property System
- Lesson 3: UI Layouts and Controls
 - 3.1: UI Layouts

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- Lesson 4: Styles, Resources & Shapes
 - 4.1. Styles and Resources
 - 4.2. Shapes
 - 4.3. Brushes
 - 4.4. Pages and Navigation
- Lesson 5: WPF Event Model
 - 5.1. Event Routing
 - 5.2: Event Bubbling
 - 5.3: Event Tunneling
- Lesson 6: Data Binding in WPF
 - 6.1. WPF Data Binding model
 - 6.2. Working with Inotify Property Changed interface
 - 6.3. Using Observable Collections

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- Lesson 7: Live Shaping and Async in WPF
 - 7.1. New Features in WPF 4.5
 - 7.2: Working with I custom Type Provider interface

References

- <http://msdn.microsoft.com/en-us/library/ms754130.aspx>
- <http://msdn.microsoft.com/en-us/library/aa970268.aspx>



Other Parallel Technology Areas



- Flex 3.0