



WPF Course Content (150 hours of teaching)

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What is windows presentation foundation

- ✓ Understanding WPF
- ✓ Understanding XAML and the reason it came into existence.
- ✓ Understanding dependency property, routed events and commands.

Understanding WPF controls

- ✓ Understanding WPF control class
- ✓ Categorizing WPF control and understanding how each different category works
- ✓ Digging deep into content controls, item controls, range controls and text controls

Understanding WPF UI layout

- ✓ Understanding WPF layout and panels – Canvas, Stack, wrap, dock, grid panels
- ✓ Understanding correct control placement and visibility inside panels

Understanding different types of WPF applications

- ✓ Standard windows applications
- ✓ Navigation based windows applications
- ✓ XAML browser applications

Understanding and using WPF resources

- ✓ Binary resources
- ✓ Static resources
- ✓ Dynamic resources
- ✓ Interacting with system resources

Ado.net

- ✓ Demystifying the connection string.
- ✓ Understanding sql server express.
- ✓ Working with dataset and datareader
- ✓ Understanding sqlConnection , sqlCommand and sqlParameter classes.
- ✓ Using ado.net with asp.net.

LINQ to SQL

- ✓ Understanding LINQ
- ✓ Designing the database to be fit for using LINQ
- ✓ Understanding DataContext and Entities
- ✓ Learning LINQ to SQL basics
- ✓ Using LINQ as a data access layer in real world projects

Understanding WPF databinding

- ✓ Understanding WPF databinding
- ✓ Databinding using plain .net properties
- ✓ Databinding using dot net objects
- ✓ Databinding WPF using collections
- ✓ Understanding DataContext
- ✓ Understanding data providers – XmlDataProvider, ObjectDataProvider

Styling WPF applications – Styles, Templates, Skins and Themes

- ✓ Understanding WPF styles
- ✓ Introduction to control templates
- ✓ Interacting with triggers
- ✓ Mixing templates with styles

Creating rich media applications using WPF

- ✓ Understanding 2D graphics
- ✓ Understanding 3D graphics
- ✓ Creating animations using XAML
- ✓ Sizing, positioning and transforming elements
- ✓ Working with audio, video, speech and documents using XAML

Bringing it all together

- ✓ Creating real world applications using WPF and ado.net.