

ADVANCED .NET WPF COURSE CONTENT

CHAPTERS & STRATEGIES TOPICS:

❖ **INTRODUCTION TO WPF:**

- Why WPF?
- What Is WPF?
- .NET Framework 3.0 (WinFX)
- WPF Overview
- Application and Window
- A Simple WPF Application
- Using Visual Studio
- Brushes
- Panels

❖ **XAML:**

- Role of XAML
- Elements and Attributes
- Namespaces
- Property Elements
- Type Converters
- Content Property
- Collections
- XAML and Procedural Code

❖ **WPF CONTROLS:**

- Button
- Label
- TextBox
- ToolTip
- RadioButton
- CheckBox
- ListBox
- ComboBox

❖ **LAYOUT:**

- Sizing
- Positioning
- Transforms
- Canvas
- Drawing Shapes
- StackPanel
- WrapPanel
- DockPanel
- Grid
- Scrolling
- Scaling

❖ **DIALOGS:**

- Message Boxes
- Win32 Common Dialogs

- Custom Modal Dialogs
- Custom Modeless Dialogs

❖ **MENUS AND COMMANDS:**

- Menus
- Context Menu
- Icons on Menu Items
- Commands
- Keyboard Shortcuts
- Disabling Menu Items
- Checking Menu Items

❖ **TOOLBARS AND STATUS BARS:**

- Toolbars
- Toolbars and Commands
- Status Bars

❖ **DEPENDENCY PROPERTIES AND ROUTED EVENTS:**

- Dependency Properties
- Change Notification
- Routed Events
- Routing Strategies

❖ **RESOURCES:**

- Resources in WPF
- Binary Resources
- Logical Resources
- Static versus Dynamic Resources

❖ **STYLES, TEMPLATES, SKINS AND THEMES:**

- Styles
- Style Sharing
- Triggers
- Templates
- Skins
- Themes

❖ **DATA BINDING:**

- Binding Sources
- Sharing Sources with DataContext
- Data Templates
- Value Converters
- Collection Views
- Data Providers
- Validation Rules