

WPF Syllabus

1. Introduction
 - a. What is WPF
 - b. Goals, Benefits & Drawbacks
 - c. First WPF Application
 - d. Types of WPF Application (Windows Based and Browser Based)
 - e. XAML – Extensible Application Markup Language.
 - f. Content Models
 - g. Brief Introduction to Expression Blend
2. Controls , Menus
 - a. Content Controls
 - i. Label, Button, CheckBox, RadioButton, RepeatButton, ToggleButton, ToolTip, Expander, GroupBox
 - b. Text Controls
 - i. TextBox, TextBlock, RichTextBox, PasswordBox
 - c. List Controls
 - i. ComboBox, ListBox, Menu, StatusBar, TabControl, Toolbar, TreeView, ListView
 - d. General Controls
 - i. Progress Bar, Image, Slider, ScrollBar, Rectangle, Ellipse, Separator , GridSplitter, MediaElement
 - e. Windows Forms Host:
 - i. NotifyIcon, DateTimePicker, FolderBrowserDialog, DataGridView
 - f. Menus and Toolbars
3. Layout
 - a. Border
 - b. Canvas
 - c. DockPanel
 - d. Grid
 - e. StackPanel
 - f. UniformGrid
 - g. WrapPanel
 - h. Viewbox
 - i. ScrollViewer
 - j. Common Layout Properties
4. Input
 - a. Mouse Events
 - b. Keyboard Input
 - c. Routed Events
5. Styles
 - a. Inline Styles
 - b. Named Styles
 - c. Element Typed Styles
 - d. Triggers
 - e. Logical and Visual Trees

6. Resources & Themes
 - a. Creating and using Resources
 - b. Resources and Styles
 - c. Pens
 - d. Brush
 - e. Fonts
 - f. Window Level and Application Level
7. Data binding
 - a. Simple Data Binding
 - b. Binding to List Data
 - c. Data Source Providers
 - d. Master Details Binding
8. Control Templates
 - a. Logical and Visual trees
 - b. Data Driven UI
9. Documents
 - a. Fixed Documents
 - b. Flow Documents
10. Navigation-Based Applications
 - a. Page
 - b. Hyperlink Navigation
 - c. Navigation Service
 - d. Frame
11. Animation and Media
 - a. Animation Fundamentals
 - b. Timelines
 - c. Keyframe Animations
 - d. Storyboard
 - e. Animation without Storyboard
 - f. Transformation and Effects
 - g. Three Dimensional Drawing