

100 Most Important WPF Interview Questions with Detailed Answers

1. What is WPF?

Answer: WPF (Windows Presentation Foundation) is a UI framework for building visually enriched Windows desktop applications. It uses XAML for UI definition and .NET languages (like C#) for logic.

2. What is XAML?

Answer: XAML (Extensible Application Markup Language) is a declarative XML-based language used to define UI elements in WPF applications.

3. What are the advantages of WPF over Windows Forms?

Answer: WPF provides better data binding, styles, templates, 2D/3D graphics support, animation, and separation of concerns via XAML and code-behind.

4. What is the difference between a StackPanel and a WrapPanel?

Answer: StackPanel arranges elements in a single line (vertical or horizontal), while WrapPanel wraps elements to the next line or column if there's not enough space.

5. What is MVVM?

Answer: MVVM (Model-View-ViewModel) is a design pattern that separates business logic, UI, and data-binding logic. It promotes testability and clean separation of concerns.

6. What are dependency properties?

Answer: Dependency properties extend regular CLR properties, enabling features like data binding, animation, default values, and property value inheritance.

7. What is the purpose of INotifyPropertyChanged?

Answer: It's an interface used to notify the UI about property value changes, essential for data binding in MVVM.

8. What is a Routed Event?

Answer: Routed Events travel through the visual tree, either bubbling up or tunneling down, allowing centralized event handling.

9. Explain the difference between StaticResource and DynamicResource.

Answer: StaticResource is resolved at compile time; DynamicResource is resolved at runtime, allowing updates to resource values dynamically.

10. What is a ControlTemplate?

Answer: A ControlTemplate defines the visual structure and behavior of a control. It allows you to completely change the appearance of a control without changing its behavior.

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