Article Side
WPF is designed to Develop Apps that provide Visually Rich User Experience by Jared Oates

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WPF

Abstract

A lot of firms or people make use of rich and interactive user interface and additionally use rich media like medium of information. Because of this, need of advanced graphics and fascinating visualization has raised. In order to backup numerous media content, common Windows Forms employ various other tools plus technology with certain limitations. When this happens, we need one stop method. This article has showed Microsoft Windows Presentation Foundation features and the way they can be advantageous in order to fulfill both the modern age and the next generation demand.

Intro

Everyday you will find new needs in apps plus websites. The requirements of current era contain effective user interface (UI), excellent user experience, audio as well as video streaming, animation, 3D graphics, document support, typography and the list is never ending. WPF extends the core with a comprehensive range of application-development features such as Extensible Application Markup Language (XAML), controls, data binding, layout, 2-D and 3-D graphics, animation, styles, templates, documents, media, text, as well as typography. WPF is integrated in the Microsoft .NET Framework, so ASP.NET developers can make applications that include other factors associated with the .NET Framework class library.

Windows Presentation Foundation

In its quest to establish a common platform to address all the current needs, Microsoft has produced one stop strategy encompassing each of the previously mentioned needs. This single method is recognized as Windows Presentation Foundation (WPF). Microsoft comes with WPF as the future generation presentation system. The main objective to release this system was to come up with applications which charm consumers. This kind of rich user experience simply can't be accomplished by using typical Window Forms. Both desktop as well as web apps can easily be made using WPF.

WPF is especially helpful where an app includes various media contents. Multimedia, vector graphics, difficult animations and also content compositions are supported by WPF. Making use of WPF, it's easy to include graphics, transition effects, sound as well as video to your apps. WPF enables you to render 2-D images on the surfaces of 3D shapes. When developers use WPF built-in animation properties, they are able to get controls and components that expand, shake, spin and also fade. They're able to also create some remarkable page transition effects similar to flapping book page plus more. On top of that, WPF offers customized animation which enables to design objects that you prefer.

Not merely restricted to rich UI, WPF even offers incorporated services for document display, packaging plus safety. WPF permits several tasks to be executed which were never reinforced by conventional Windows Forms. These tasks incorporate formation of fidelity content (paginated content, 2D/3D elements, images, media, hyperlinks, annotations, as well as other support content), quick access along with readability. Both fixed plus flow documents are backed by WPF. You can

look at documents in numerous modes, text search, copy to clipboard, zoom and as well have got pagination service. When the readers are reading through a document, they're offered the facility of annotation by WPF. This is accomplished by using highlight and also sticky note with data anchoring and complementing annotation features. Packages in WPF, is an efficient way to organize app info, document content, plus related resources in a container which is simple to get, portable, and uncomplicated to distribute. In addition, Package service facilitates authorized digital accreditations, package relationship along with Microsoft Windows Rights Management (RM).

The class and functionality of text rendering have been enhanced by WPF which additionally provides typographic attributes. Key typography features usually are : OpenType CFF, TrueType, as well as OpenType fonts, better font support, new text application programming interfaces and improved international text. Also, WPF text engine works with spelling checking, language guide line, automatic line spacing, animated text, plus bitmap and text effects.

WPF is not an alternative of Windows Forms as well as both these platforms can are available mutually. Developers can leverage WPF factors into present-day application and enjoy WPF advantages gradually and also incrementally. The exclusive functions of Windows Forms can be employed by WPF. And so, it leverages interoperability as well as code re-usability.

Conclusion

So, WPF is available as a part of .NET Framework types which are for the most part based in the System.Windows namespace. The common WPF programming experience may sound acquainted to .NET programmers who have the knowledge of .NET development with .NET Framework using managed technologies similar to ASP.NET and Windows Forms. C#.NET developers instantiate classes, set properties, call methods, as well as manage events, all using .NET Framework programming language, for instance C# as well as Visual Basic.

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