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Techniacl Comparison between DotNetNuke (DNN) & .Net Core

Version 1.0

*This document will compare between **DotNetNuke (DNN)** & **.Net Core** from a technical wise.*

	.NET Core	DotNetNuke (DNN)
Technology Type	.NET Core is a free, open-source, cross-platform framework developed by Microsoft for building different types of applications, including web, desktop, and mobile applications.	DotNetNuke, now known as DNN Platform, it is an open-source web content management system (CMS) based on the .NET framework. Used primarily for building and managing websites, intranets, and extranets.
Scope of Use	It is a general-purpose development platform, allowing developers to build a wide range of applications, including web APIs, services, web applications, mobile apps, and more.	DNN specifically designed for web content management and focused on building and managing websites.
Community and Support	It has a large and active community of developers and contributors due to its widespread use across various industries. Microsoft provides official documentation, tutorials, and support resources.	While it has a dedicated community, it may not be as large as the .NET Core community. However, there are forums, documentation, and community-driven support available for DNN users.
Architecture	It based on a modular and lightweight architecture optimized for performance and scalability. .NET Core applications can run on Windows, Linux, and macOS.	DNN follows a modular architecture, allowing developers to extend its functionality using modules and skins. It primarily designed to run on Windows servers with IIS (Internet Information Services).
Flexibility and Customization	Developers have full control over the application's architecture, allowing for greater flexibility and customization. They can choose their preferred development tools, libraries, and frameworks.	While DNN offers customization through modules and skins, its primary focus is on providing a user-friendly CMS platform. Customizing core functionalities may require a deeper understanding of the DNN framework.
Deployment and Hosting	Applications built with .NET Core can deployed on various hosting environments, including on-premises servers, cloud platforms.	DNN traditionally deployed on Windows servers with IIS. While it can also deployed on cloud platforms, its deployment process may be more tailored to traditional web hosting environments.
Cost	.NET Core itself is free and open-source, and developers can use it without any licensing costs. However, there may be costs associated with additional tools, services, or hosting environments.	DNN is open-source, meaning the core platform can used without licensing fees. However, there might be costs associated with premium modules, themes, hosting, and support services.
Development Environment	Developers can work with .NET Core using a variety of integrated development environments (IDEs) such as Visual Studio, Visual Studio Code, JetBrains Rider, and others. These IDEs offer robust features for coding, debugging, and testing.	Development within DNN typically involves working with Visual Studio or another .NET development environment. Additionally.
Scalability	.NET Core applications known for their scalability, allowing them to handle increased loads and accommodate growing user bases. Developers can leverage features like asynchronous programming and microservices architecture for scalability.	DNN websites can scaled to a certain extent through techniques such as load balancing and caching. However, scalability may be more limited compared to custom-built applications, especially for very large-scale deployments.
Security	.NET Core benefits from regular updates and patches to address security vulnerabilities. Developers also have access to security features such as data protection APIs, identity management, and secure coding practices.	DNN includes security features such as role-based access control, HTTPS support, and user authentication mechanisms. However, as with any CMS platform, security vulnerabilities can arise,

		and it essential to stay updated with security patches and best practices.
Ecosystem and Extensions	The .NET ecosystem is vast and includes a wide range of libraries, frameworks that can integrated into .NET Core applications. This enables developers to leverage existing solutions and accelerate development.	DNN has its own ecosystem of extensions, including modules, skins, and third-party add-ons available through the DNN store. These extensions allow users to enhance the functionality and appearance of their DNN websites without extensive custom development.
Learning Curve	While .NET Core offers extensive documentation and resources, mastering the framework and its associated technologies may require a learning curve, especially for developers new to the .NET ecosystem	DNN's learning curve may vary depending on a developer's familiarity with the .NET framework and CMS concepts. While DNN provides tools and resources for developers, understanding its architecture and module development may take some time.
Community and Support	Besides official Microsoft support, .NET Core benefits from a large community of developers contributing libraries, frameworks, and resources. This vibrant community ensures a wealth of community-driven support and extensions.	DNN has an active community that provides support, forums, and community-driven extensions. While the community may not be as extensive as that of .NET Core, it offers valuable resources for DNN users.

In summary, .NET Core is a versatile development framework suitable for building various types of applications, while DotNetNuke (DNN) is a specialized CMS platform focused on website content management. Your choice between the two would depend on your specific project requirements, development expertise, and desired level of customization.