Software Engineering Tools

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BATCH : T6

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Assignment 2.

Software Engineering Tools Lab

DotNet

For every Frameworks/IDEs/Softwares given above provide the answers for below questions

1. Original author

-> DOTNET is a free and open-source . DOTNET Foundation

2. Developers

-> .NET Foundation

3. Initial release

-> .NET Core 1.0 was released on June 27, 2016

4. Stable release

-> .NET 6.0.2 , 8 February 2022

5. Preview release

6. Repository (with cloud support )

-> NET Core support is generally available on App Engine flexible environment as well as Container Engine.

7. Written in (Languages)

-> C++ and C#

8. Operating System support

-> Windows, Linux and macOS

9. Platform ,portability

-> IA-32, x86-64, and ARM

10. Available in (Total languages)

-> . NET Framework supports more than 60 programming languages

11. List of languages supported

-> C#.NET

VB.NET

C++.NET

J#.NET

F#.NET

JSCRIPT.NET

WINDOWS POWERSHELL

IRON RUBY

IRON PYTHON

C OMEGA

ASML(Abstract State Machine Language)

12. Type (Programming tool, integrated development environment etc.)

-> Software framework

13. Website

->  [dotnet.microsoft.com](https://dotnet.microsoft.com/)

14. Features

-> Interoperability.

Common Language Runtime engine (CLR)

Language independence.

Base Class Library.

Simplified deployment.

Security.

Portability.

15. Size (in MB, GB etc.)

16. Privacy and Security

-> . NET Core is as safe as the development best practices and maintenance deployed to create the code and keep it updated.

17. Type of software (Open source/License)

-> Open source

18. If License- Provide details.

-> MIT License

19. Latest version

-> 6.0.2

20. Cloud support (Yes/No)

-> YES

21. Applicability

-> Net development are high today

22. Drawbacks (if any)

-> Limited Object-Relational Support.

Memory Leaks.

The problem of memory leaks is common with every technology

Difficulty in the transition to . NET core.