**.NET 6**

**VISUAL STUDIO 2022**

**SSMS 2018**

**WEBFORMS (2022)**

**.NET MVC (2009)**

**.NET CORE(2016)**

-.NETCORE 1.0 (JUNE 2016)

-.NET CORE 2.9(AUG 2018)

-.NET CORE 3.0(2019)

-.NET CORE 3.1(DEC 2019)

-.NET CORE 5.0(NOV 2020)

-.NET CORE 6.0(NOV 2021)

**ASP.NET CORE**

-FAST AND OPEN SOURCE

-CROSS PLATFORM

-BUILT IN DEPENDENCY INJECTION

-EASY UPDATE (IF NEW VERSION RELEASE ITS EASY TO UPDATE)

-CLOUD FRIENDLY (SUPPORT ALL CLOUDS)

-PERFORMANCE

**DEPENDENCY INJECTION**

**Without dependency injection**

-Email open/close connection

-Database open/close connection (which we use now)

**With Dependency Injection**

-**Email =>** (IEmail.Email)Interface - **DI CONTAINER**

-**Database =>** (IDb.Db)Interface - **DI CONTAINER**

**Email and Database**- will just ask the **dependency injection** container to **create an object** of this functionality and **directly give page an object to use**. So inside the page we will actually be **using an interface** and then **dependency injection does its magic of passing the object when the website needs it**. That way, we do not have to deal with **creating the object disposing or managing that object inside our pages,** our pages will look very clean **with just the interface**. **All the instance and implementation** will be done by **dependency injection container**. Now in future if you want to change or replace the if you want to change or replace the **email class you do not have to make any change in the pages all you have to do is just change the implementation inside the email class.** And since we are registering that in the **container**, next time when we build the project it will take the new implementation. So you can see we only have to change in one place now. That is one of the main **advantage** that comes with **dependency injection**. Now in order to use **dependency injection** you can use many third party tools. But with **dotnet core**, we have a **built in dependency injection container**, and that has its own advantages.