

PEMROGRAMAN WEB LANJUTAN

ALOYSIUS ARI WICAKSONO

Peraturan Perkuliahan

1. Tidak boleh terlambat

- ▶ Toleransi keterlambatan 10 menit. Lebih dari 10 menit : dianggap tidak hadir

2. Berpakaian rapi dan sopan

- ▶ Tidak memakai sandal
- ▶ Tidak memakai sendal-sepatu
- ▶ Tidak memakai celana robek-robek
- ▶ Boleh memakai kaos/t-shirt
- ▶ Dilarang makan, tapi boleh minum

3. Tidak boleh menyalakan computer / laptop saat teori kecuali diminta

Peraturan Perkuliahan

4. Penilaian Praktikum

- ▶ Dikumpulkan Max 120 menit waktu praktikum : max nilai 100
- ▶ Dikumpulkan Max 150 menit waktu praktikum : max nilai 95
- ▶ Dikumpulkan Max 180 menit waktu praktikum : max nilai 90
- ▶ Dikumpulkan Max 210 menit waktu praktikum : max nilai 85
- ▶ Dikumpulkan Max 240 menit waktu praktikum : max nilai 80
- ▶ > 240 menit (atau susulan) : max nilai 75

Tujuan Perkuliahan

- ▶ Membuat website menggunakan ASP.Net Core
- ▶ Front end + back end
- ▶ Fokus : Content Management System (CPanel)

Garis Besar Perkuliahan

- ▶ Week 1 : Introduction To ASP.Net Core
- ▶ Week 2 : MVC, Razor Views
- ▶ Week 3 : Control Structure
- ▶ Week 4 : Class, Object, Array, List
- ▶ Week 5 : Entity Framework Core & Handling User Input
- ▶ Week 6 : Tag Helpers, Handling User Input
- ▶ Week 7 : LINQ & AJAX

Garis Besar Perkuliahan

- ▶ Week 8 : Razor Layout
- ▶ Week 9 : Partial View
- ▶ Week 10 : Application Programming Interface
- ▶ Week 11 : Session, Cookies
- ▶ Week 12 : Security, JWT Token, Authentication
- ▶ Week 13 : Regular Expression & Reporting
- ▶ Week 14 : Publish Application

Pemrograman Web Lanjutan

INTRODUCTION TO ASP.NET
CORE

Topik

- ▶ .Net Core Framework
- ▶ Mengapa ASP.Net Core?

Pre-Test

- ▶ Carilah perbedaan ASP.Net Core dan ASP.Net
- ▶ Apa keunggulan ASP.Net Core dibanding beberapa Bahasa pemrograman dan framework lain?

.NET Core Framework

- ▶ Dikenalkan oleh Microsoft pada tahun 2014
- ▶ Cross Platform dan Open Source

| Version | Release date | Released with | Latest update | Latest update date | Support ends ^[23] |
|---------------|----------------------------|---------------------------------|---------------|--------------------|------------------------------|
| .NET Core 1.0 | 2016-06-27 ^[24] | Visual Studio 2015 Update 3 | 1.0.16 | May 14, 2019 | June 27, 2019 |
| .NET Core 1.1 | 2016-11-16 ^[25] | Visual Studio 2017 Version 15.0 | 1.1.13 | May 14, 2019 | June 27, 2019 |
| .NET Core 2.0 | 2017-08-14 ^[26] | Visual Studio 2017 Version 15.3 | 2.0.9 | July 10, 2018 | October 1, 2018 |
| .NET Core 2.1 | 2018-05-30 ^[27] | Visual Studio 2017 Version 15.7 | 2.1.39 (LTS) | July 11, 2023 | August 21, 2021 |
| .NET Core 2.2 | 2018-12-04 ^[28] | Visual Studio 2019 Version 16.0 | 2.2.8 | November 19, 2019 | December 23, 2019 |
| .NET Core 3.0 | 2019-09-23 ^[29] | Visual Studio 2019 Version 16.3 | 3.0.3 | February 18, 2020 | March 3, 2020 |
| .NET Core 3.1 | 2019-12-03 ^[30] | Visual Studio 2019 Version 16.4 | 3.1.32 (LTS) | December 13, 2022 | December 13, 2022 |
| .NET 5 | 2020-11-10 ^[31] | Visual Studio 2019 Version 16.8 | 5.0.17 | May 10, 2022 | May 10, 2022 |
| .NET 6 | 2021-11-08 ^[32] | Visual Studio 2022 Version 17.0 | 6.0.21 (LTS) | August 8, 2023 | November 12, 2024 |
| .NET 7 | 2022-11-08 ^[33] | Visual Studio 2022 Version 17.4 | 7.0.10 | August 8, 2023 | May 14, 2024 |
| .NET 8 | 2023-11-08 ^[34] | | (will be LTS) | | November 10, 2026 |
| .NET 9 | 2024-11 (projected) | | | | May 2026 (projected) |

Old version

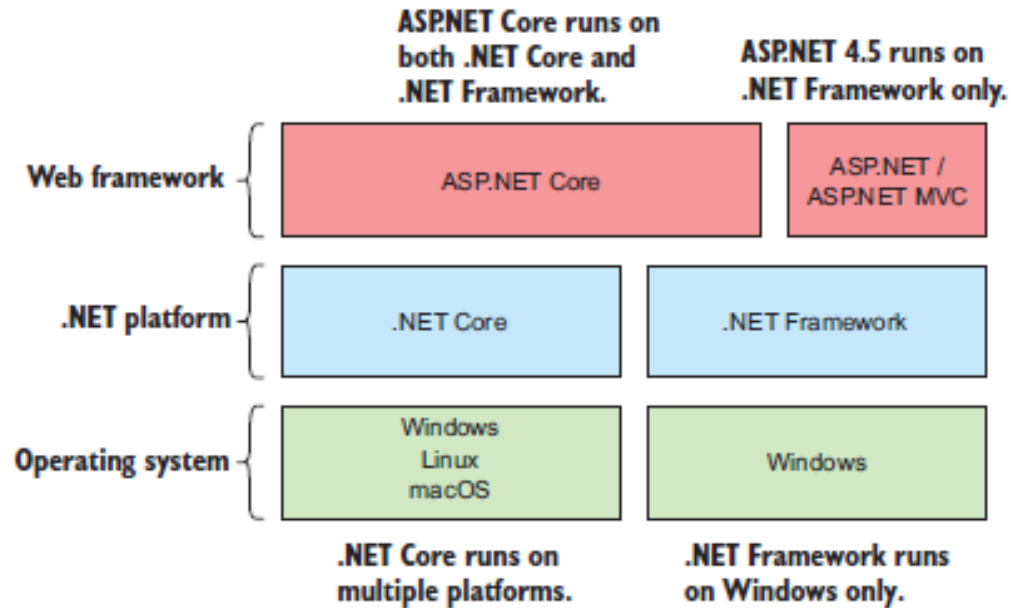
Older version, still maintained

Latest version

Future release

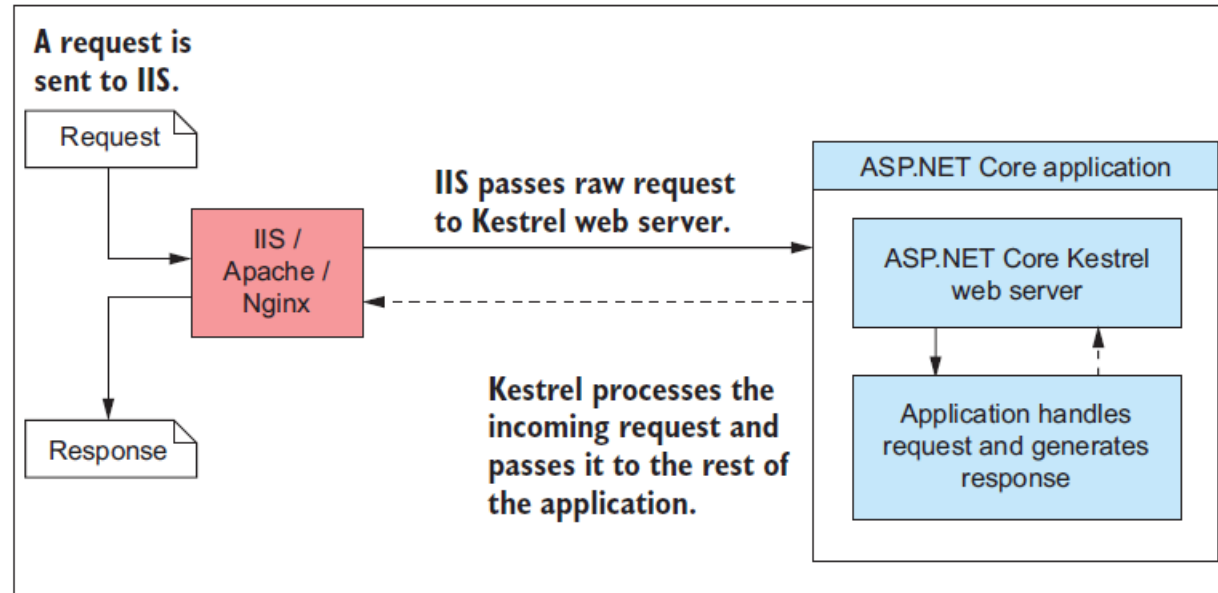
.NET Core Framework

- ▶ Bisa dijalankan di Linux
- ▶ Versi .NET sebelumnya hanya bisa dijalankan di windows
- ▶ Bisa dibuild sebagai web application maupun desktop application



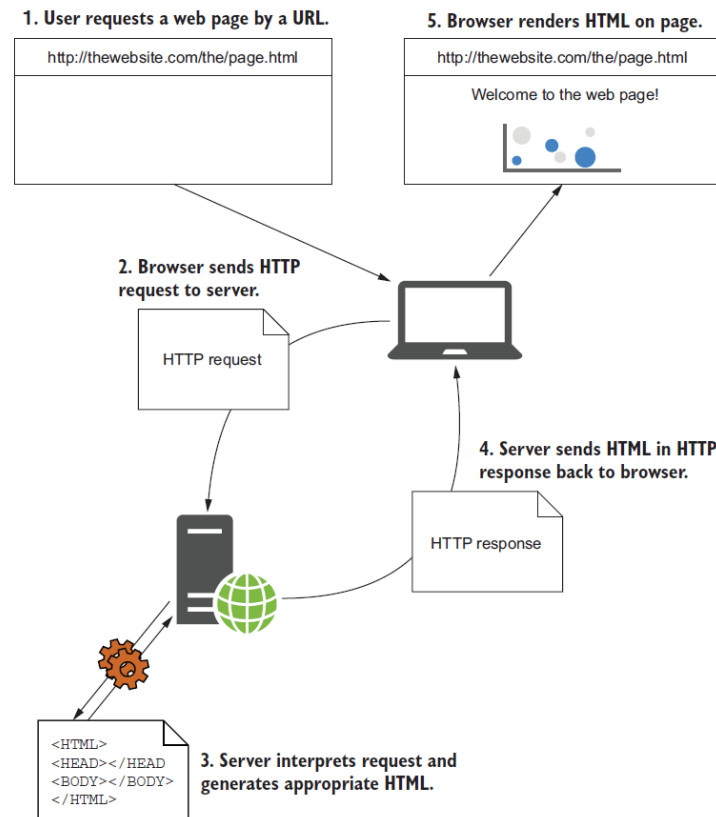
Cara Kerja .NET Core Framework

- ▶ Request akan dikirimkan ke web server
- ▶ Diproses oleh ASP.Net Core application



Cara Kerja .NET Core Framework

- ▶ Setiap request oleh user akan diproses dulu oleh ASP.Net Core application
- ▶ Kemudian, program akan generate HTML yang akan ditampilkan oleh browser



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SEKIAN DAN TERIMA KASIH