Blazor, a new framework for browser-based .NET apps - Steve Sanderson

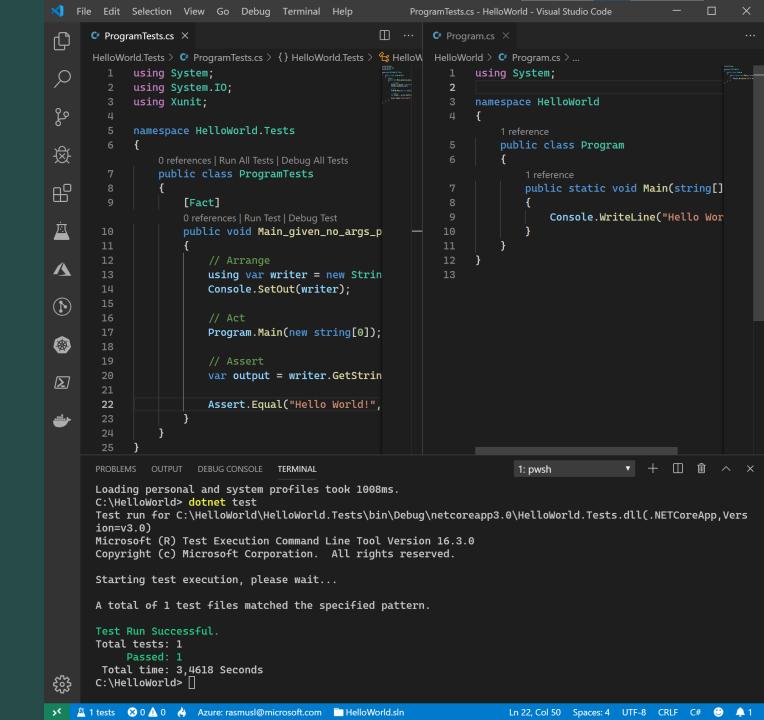
From 08:00-09:00 if you haven't already; go watch:

https://www.youtube.com/watch?v=Khn7sDUSEJM

Web Applications with C#

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Agenda

Message from Study & Career Guidance

Catch up on last weeks lecture

Web Frameworks for .NET

Other web frameworks

Building your own components

How to choose a framework

(The Gilded Rose Recap)

Exam preparation and Efficient Learning workshop

Study & Career Guidance are hosting the workshop **Exam preparation and Efficient Learning**.

It is held on Zoom, today at 16:00-18:00.

Sign up: <u>here at ITU Student</u>.

Catch-up on last weeks lecture

For a demo on Xamarin.Forms go to:

https://github.com/ondfisk/BDSA2019 and go to BDSA2019.Lecture10

Web Frameworks for .NET

Blazor

Blazor is a framework for building interactive client-side web UI with .NET:

- Create rich interactive Uls using C# instead of JavaScript.
- Share server-side and client-side app logic written in .NET.
- Render the UI as HTML and CSS for wide browser support, including mobile browsers.
- Integrate with modern hosting platforms, such as Docker.
- \$ dotnet new blazorserver
- \$ dotnet new blazorwasm

Source: https://blazor.net and https://blazor.net and https://blazor.net and https://docs.microsoft.com/en-us/aspnet/core/blazor

gRPC Remote Procedure Calls

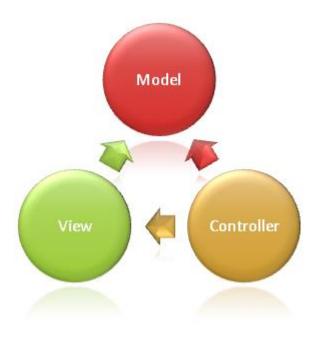
gRPC is a modern, open source, high-performance remote procedure call (RPC) framework that can run anywhere. gRPC enables client and server applications to communicate transparently and simplifies the building of connected systems.

\$ dotnet new grpc

ASP.NET Core MVC

ASP.NET Core MVC is a rich framework for building web apps and APIs using the Model-View-Controller design pattern.

\$ dotnet new mvc



Source: https://docs.microsoft.com/en-us/aspnet/core/mvc/overview

Honorable mentions

Web Forms

Deprecated – was the default in ASP.NET from 2002 to around 2010-2012-ish

Razor Pages

Simple page centric approach without all the fuss

SignalR

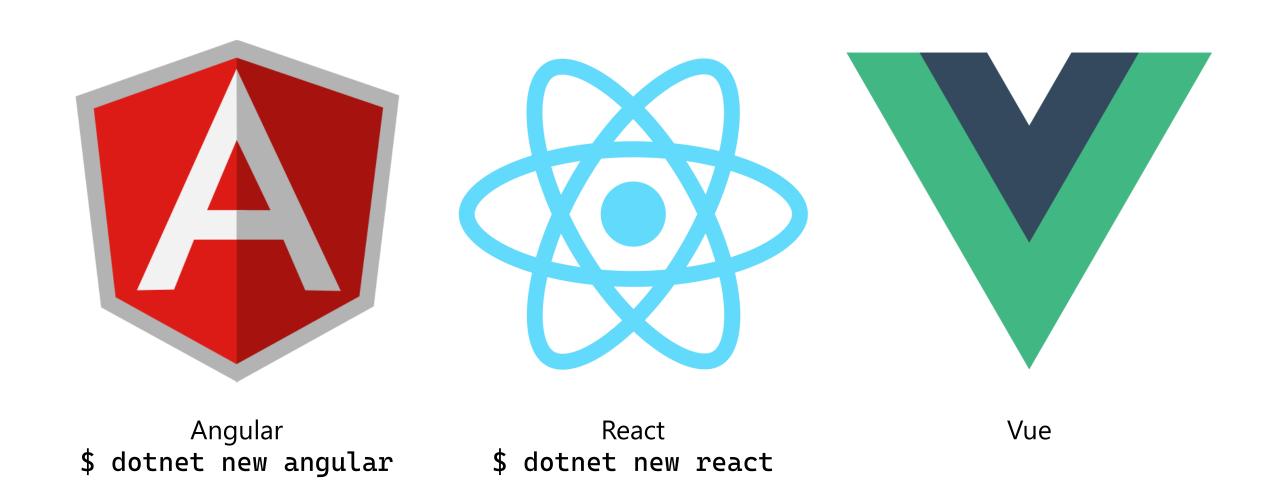
Real-time functionality for existing apps (core part of Blazor Server)

Demo

ASP.NET Web Applications

Other Web Frameworks

Other Web Frameworks



Other Web Frameworks

Written in JavaScript (or TypeScript)

Backend could be:

- ASP.NET Core Web API
- Node.js
- Anything

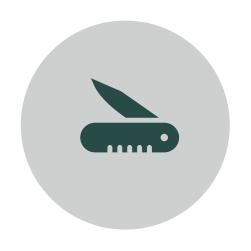
No code sharing with backend – context switching hard.

Building your own components

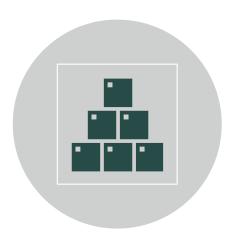
Building your own components



Component Vendors







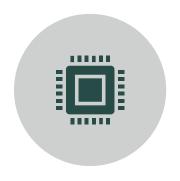
TELERIK: HTTPS://www.telerik.com/

DEVEXPRESS:
HTTPS://www.devexpress.com/

RADZEN: https://blazor.radzen.com/

How to choose a framework

How to choose a framework



INSTALL VISUAL STUDIO
PROFESSIONAL/ENTERPRISE/FOR
MAC



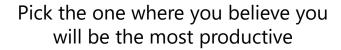
TEST OUT ALL THE TEMPLATES ONE BY ONE



GET YOUR OWN FEEL FOR PROS/CONS OF EACH FRAMEWORK FOR YOUR SCENARIO

No, really







Don't be afraid to change your mind



Be prepared: The next great thing which is better than all the others will arrive tomorrow or next year approx.