ASP.NET Core Introduction

How the Web Works

The HTTP Request
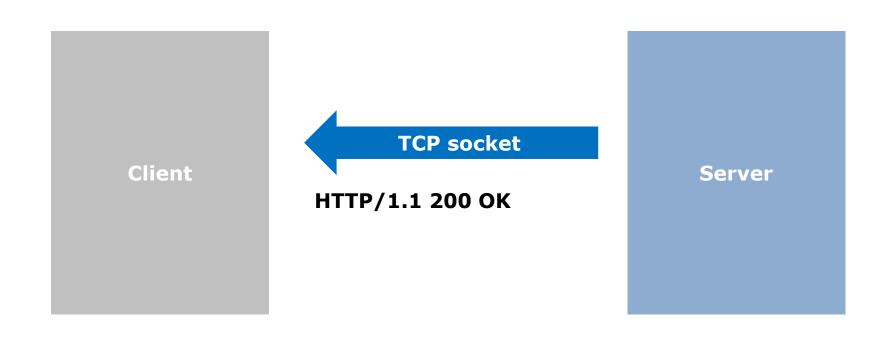
Client

TCP socket →

Server

The HTTP Request

Client

TCP socket →

GET /products HTTP/1.1
Host: www.example.org

Server

The HTTP Response

Client

TCP socket

←

HTTP/1.1 200 OK

Server

The HTTP Request

Client

TCP socket →

POST /products HTTP/1.1
Host: www.example.org
Content-Type:
application/json
Content-Length: 15

{"name": "bike"}

Server

The HTTP Response

Client

TCP socket

HTTP/1.1 201 Created

Server

Web site

Web application

- Why a Web Application Framework?

  - Building blocks
  - Structure

ASP.NET Core is a
web application framework
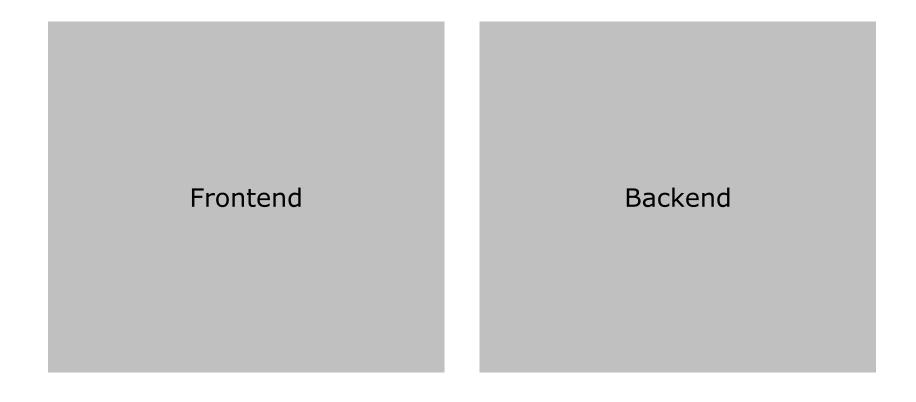
What To Build With ASP.NET Core?

Frontend

MVC
Razor Pages
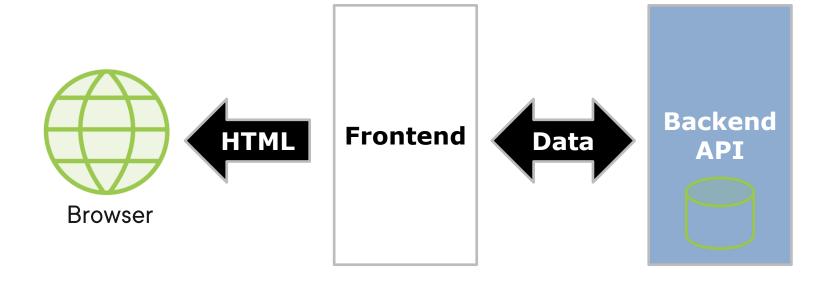
Blazor

Backend

Web API
gRPC

Supporting

SignalR
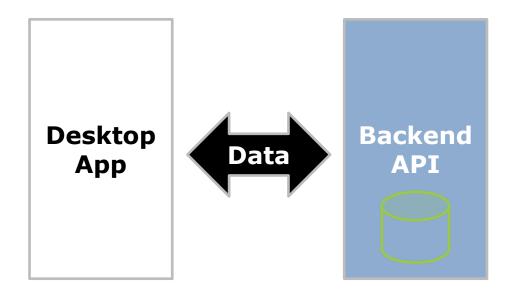
ASP.NET Core: Application Types

Frontend

Backend
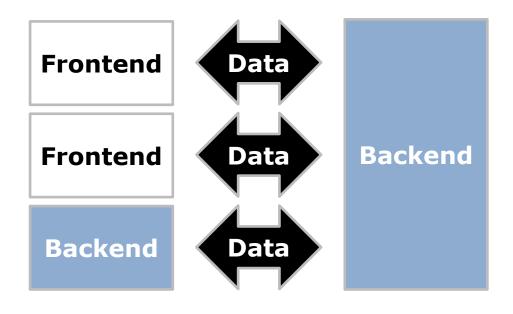
Frontend and Backend

Or Client Desktop Applications

Desktop App ⬌ **Data** ⬌ **Backend API**

The Centralized Backend

- ASP.NET Core

  - Application styles
  - Foundation
  - Open source
  - High performance
  - Cross platform
  - Modular
  - .NET and C#, F#, VB