

# Blazor

## Blazing Into the Future of Web Development

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# The Workshop

Consists of theory with labs in two parts

Lab files including slides in GitHub repository

Labs use .NET 6

Intermediate level

Breaks

Questions



# The Plan



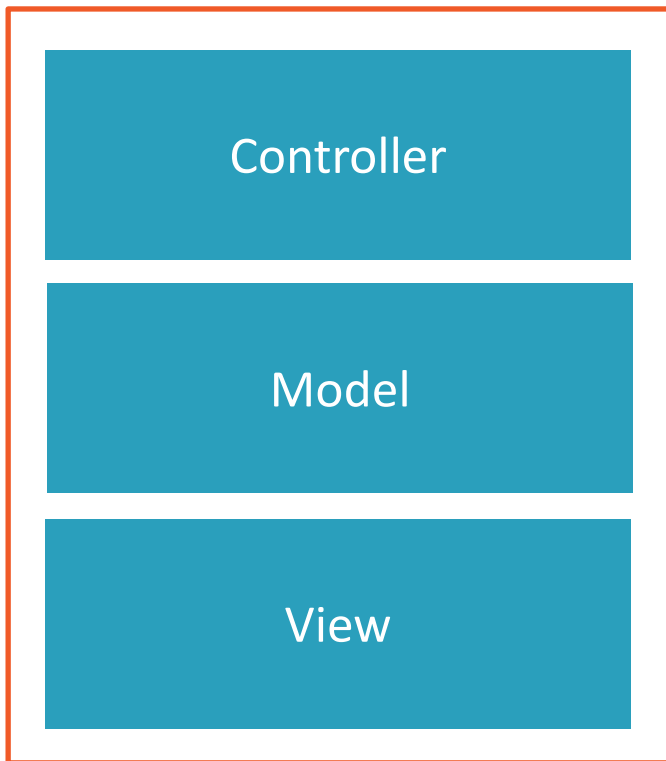
What is Blazor?

The basics of component building

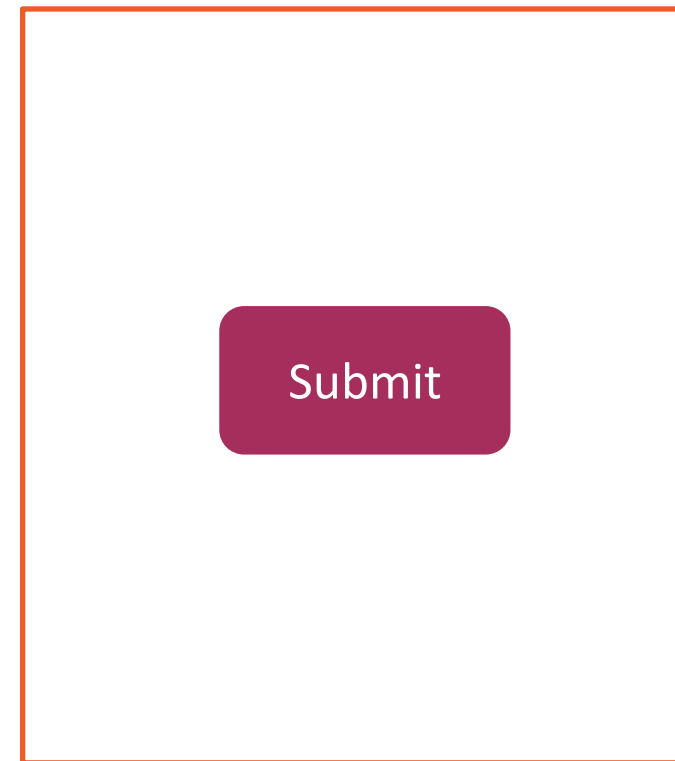
More advanced component capabilities

# MVC

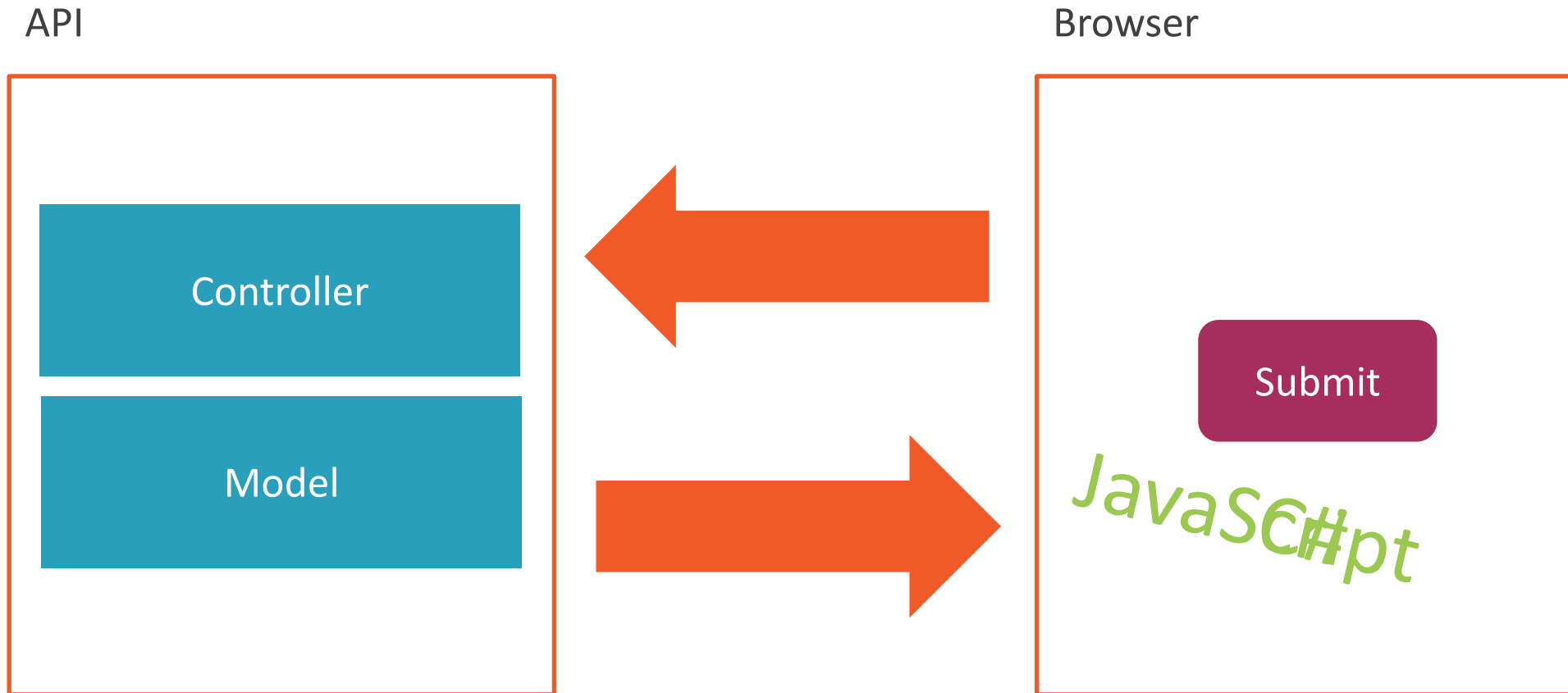
Server



Browser



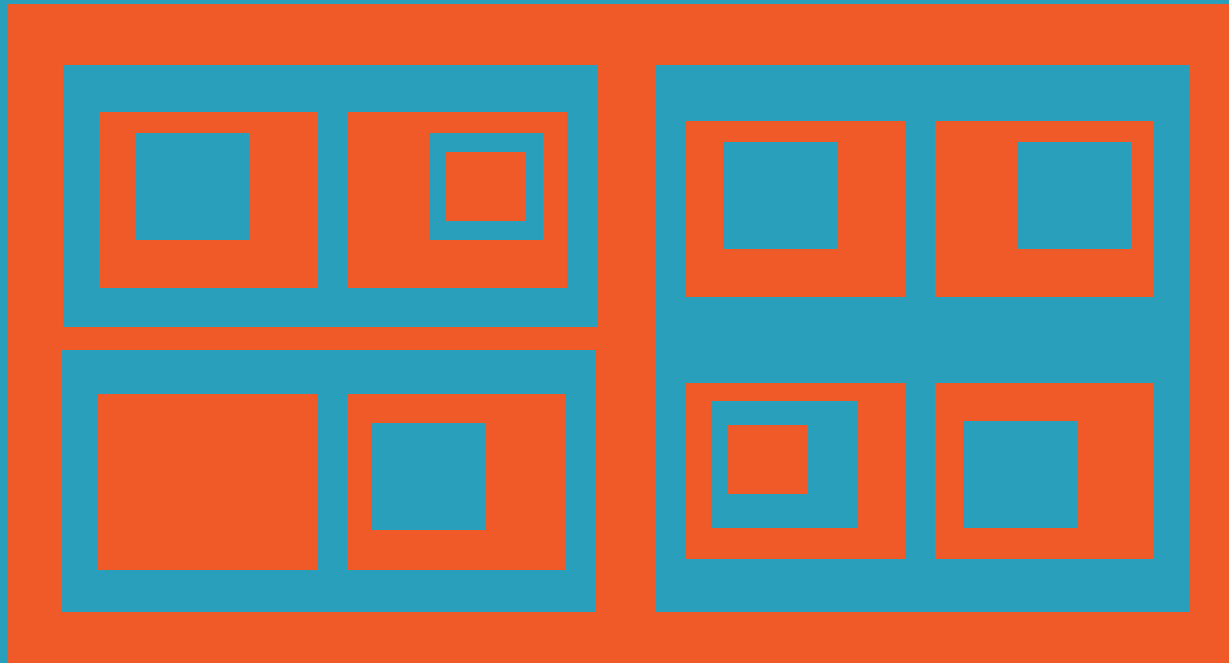
# Single Page Application



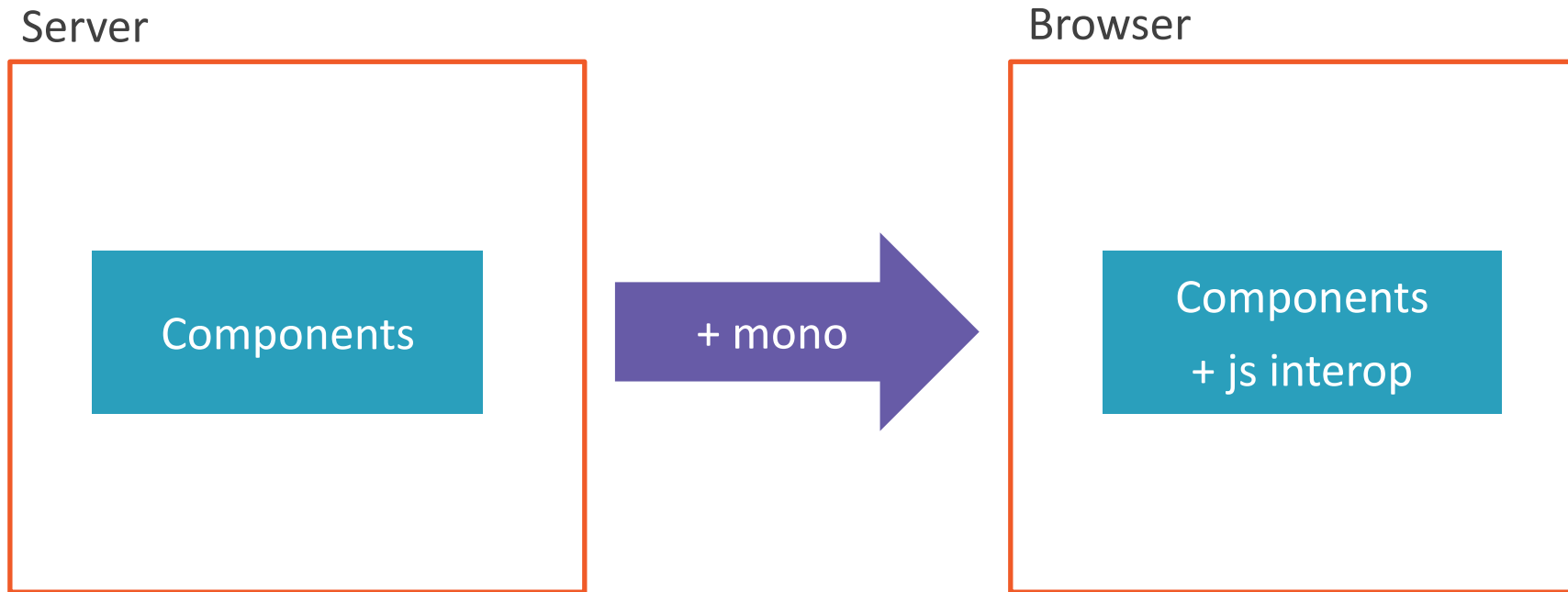
Blazor is a single-page application framework that lets you write C# on the browser side.



# Creating Blazor App == Writing components.

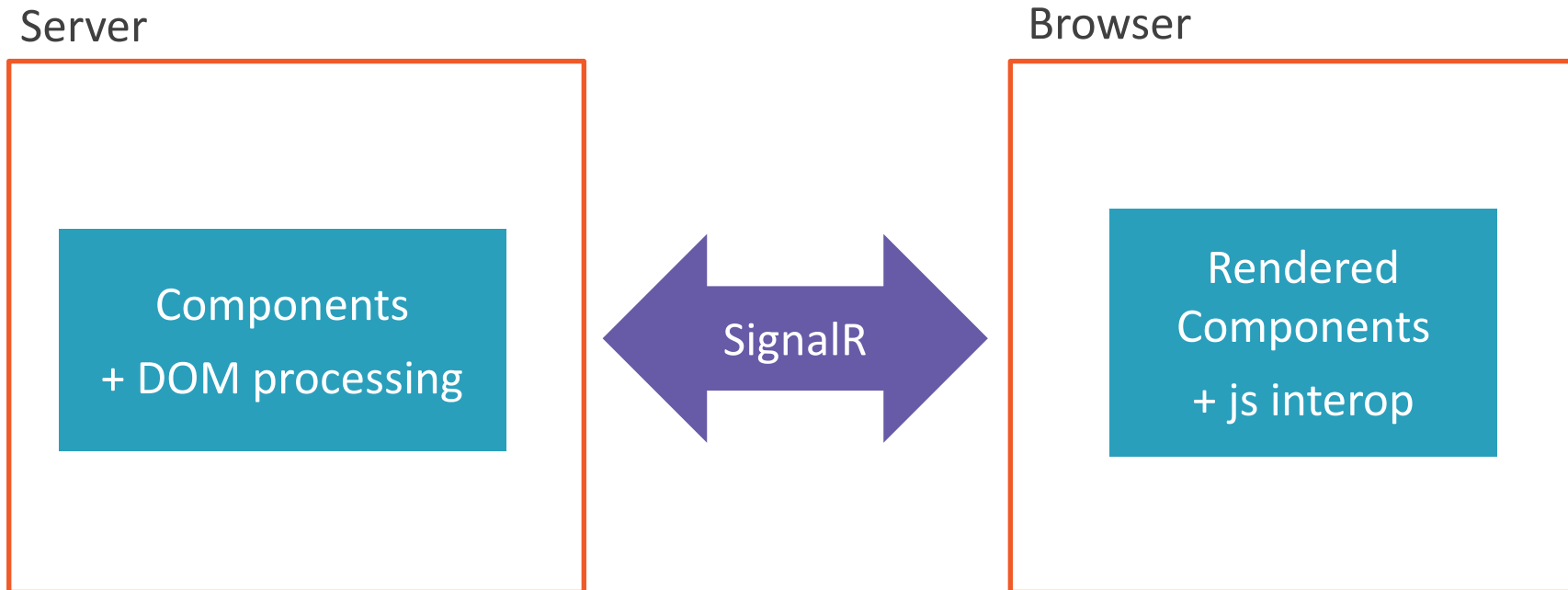


# Hosting Model #1: Blazor Web Assembly





# Hosting Model #2: Blazor Server



Component structure is identical  
for both hosting models.



# Demo



Server- and Client-side Blazor: Comparison



# Demo



## Exploring a demo app

<https://github.com/RolandGuijt/BlazorExample>

- Understanding the diff mechanism
- Getting to know the code structure



# Partial Component Class Hierarchy Without Code-behind

ComponentBase (framework)

ConferenceList  
(generated)



# Partial Component Class Hierarchy with Code-behind

ComponentBase  
(framework)

ProposalListModel

ProposalList  
(generated)



ComponentBase  
(framework)

ConfArchComponentBase

ProposalListModel

ProposalList  
(generated, partial)



# Lab time!

## Part 1

<https://4sh.nl/blazorworkshop>





# Demo



Component writing with:

Child Content

@bind

Chained binds

More



# Component Hierarchy

EmployeeModel



EmployeeOverview

EmployeeRow

BenefitSelector



@key

Collection:

Benefit "Health Insurance"

Benefit "Paid Time Off"

Benefit "Education"

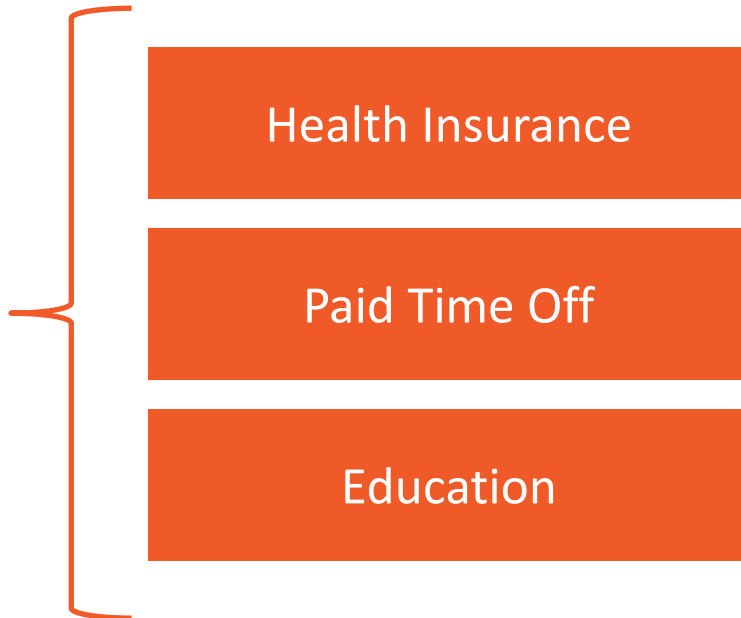
Collection:

Benefit "Health **Care**"

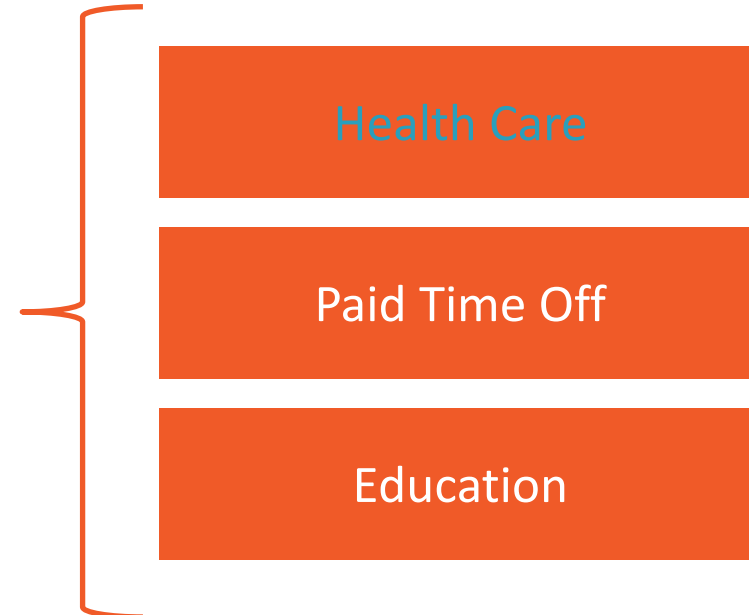
Benefit "Paid Time Off"

Benefit "Education"

foreach



foreach



@rolandguijt



@key

Collection:

Benefit "Health Insurance"

Benefit "Paid Time Off"

Benefit "Education"

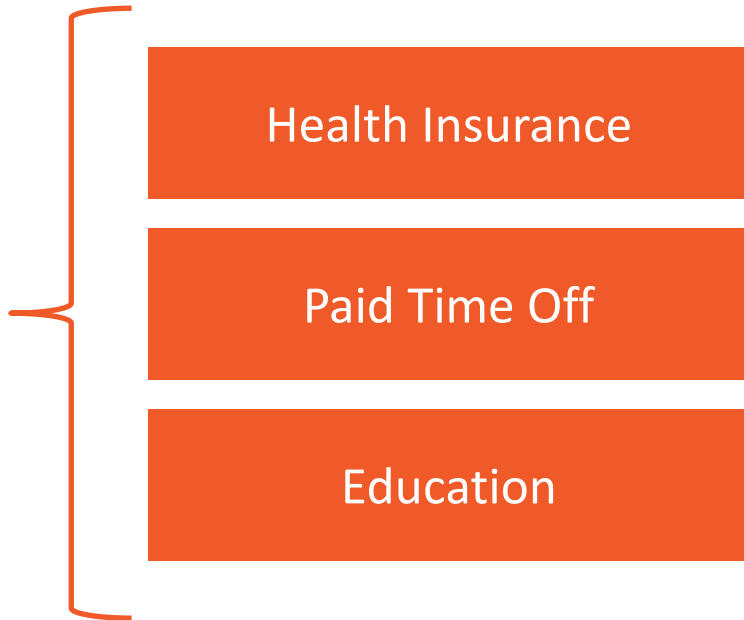
Collection:

Benefit "Health **Care**"

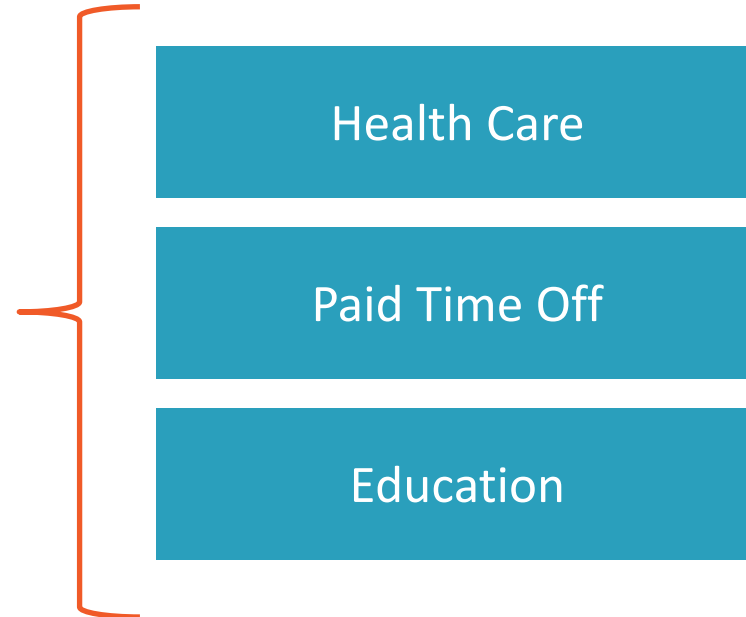
Benefit "Paid Time Off"

Benefit "Education"

foreach



foreach



@rolandguijt



# @key

Collection:

Benefit 1 "Health Insurance"

Benefit 2 "Paid Time Off"

Benefit 3 "Education"

foreach



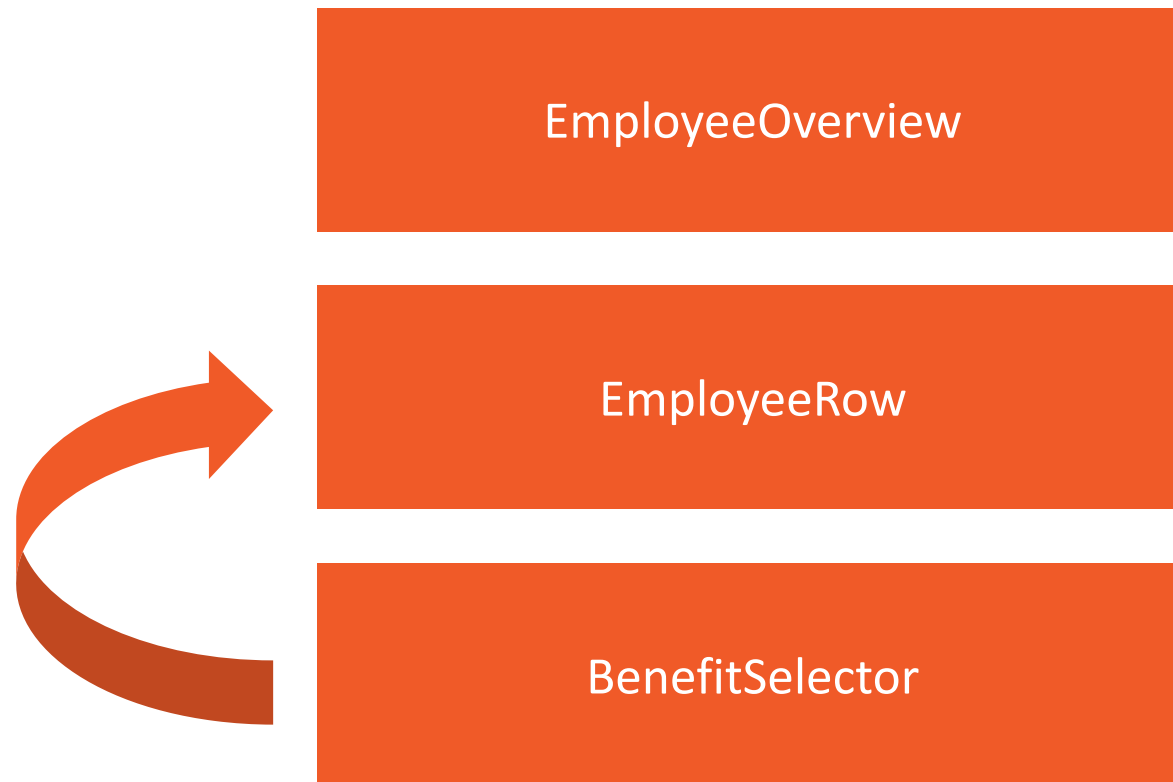
1. Health Insurance

2. Paid Time Off

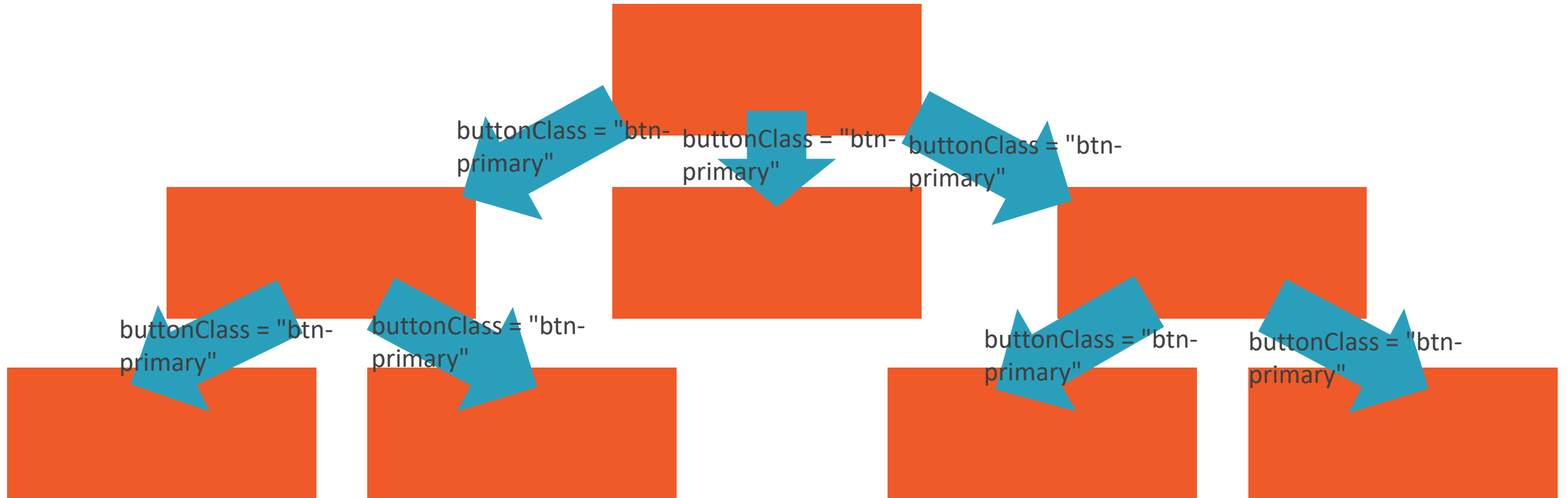
3. Education



# Component Hierarchy



# Cascading Values



# Cascading Values

```
<CascadingValue Value="@buttonClass">  
  <CascadingValue Value="@inputClass">  
    <EmployeeOverView>  
      <AddEmployeeDialog>  
        [CascadingParameter]  
        public string CascadingValue { get; set ; }
```





# Cascading Values

```
<CascadingValue Value="@buttonClass" Name="button">  
  <CascadingValue Value="@inputClass" Name="input">  
    <EmployeeOverView>  
      <AddEmployeeDialog>  
        [CascadingParameter(Name = "button")]  
        public string CascadingValue { get; set ; }
```



# Demo



## Templated Components

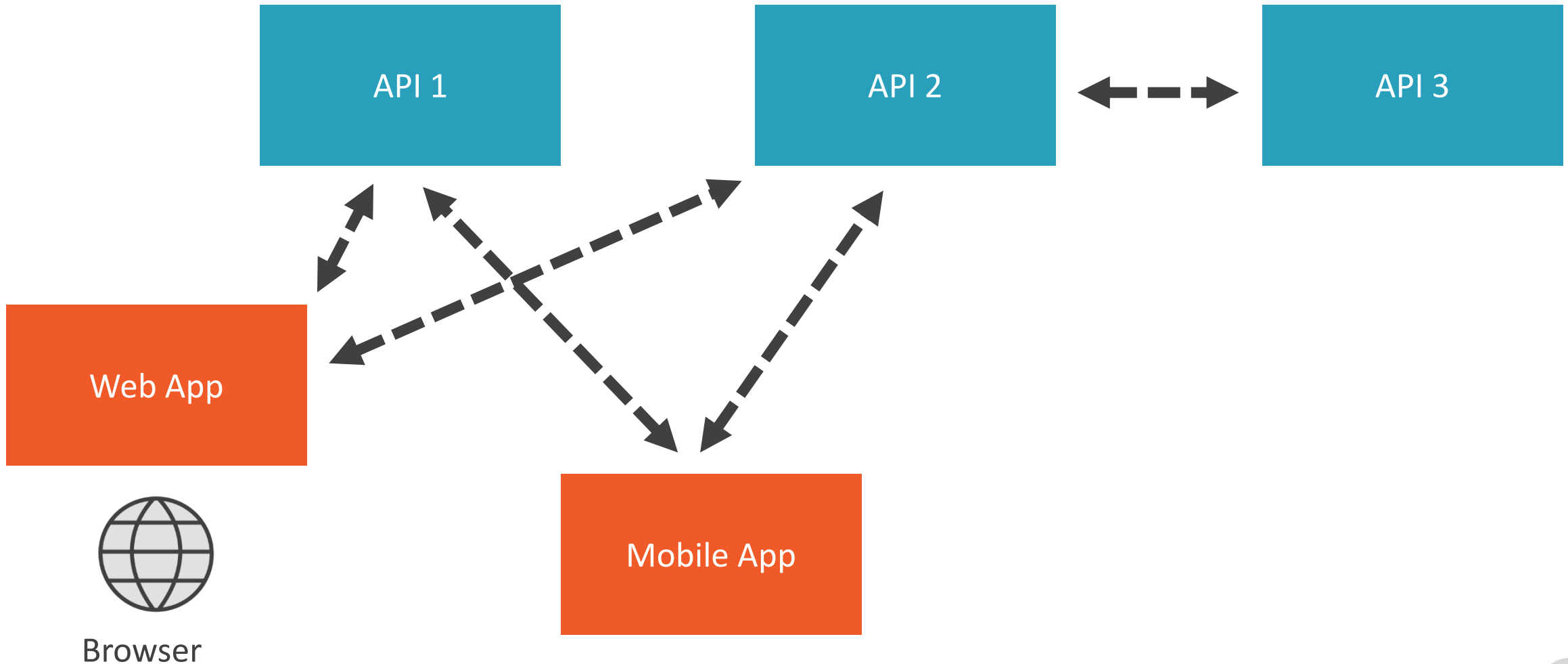


# Auth

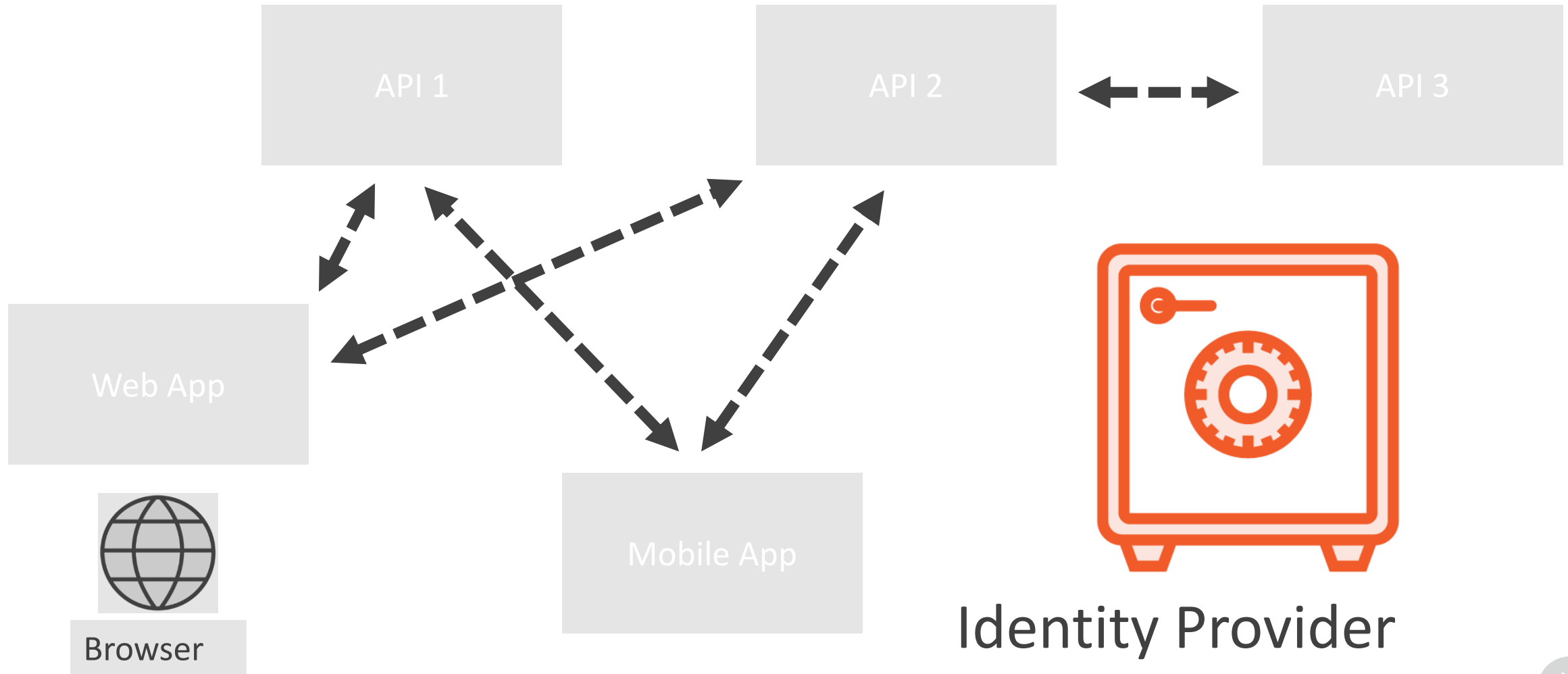
Uses standard ASP.NET Core authentication and authorization support



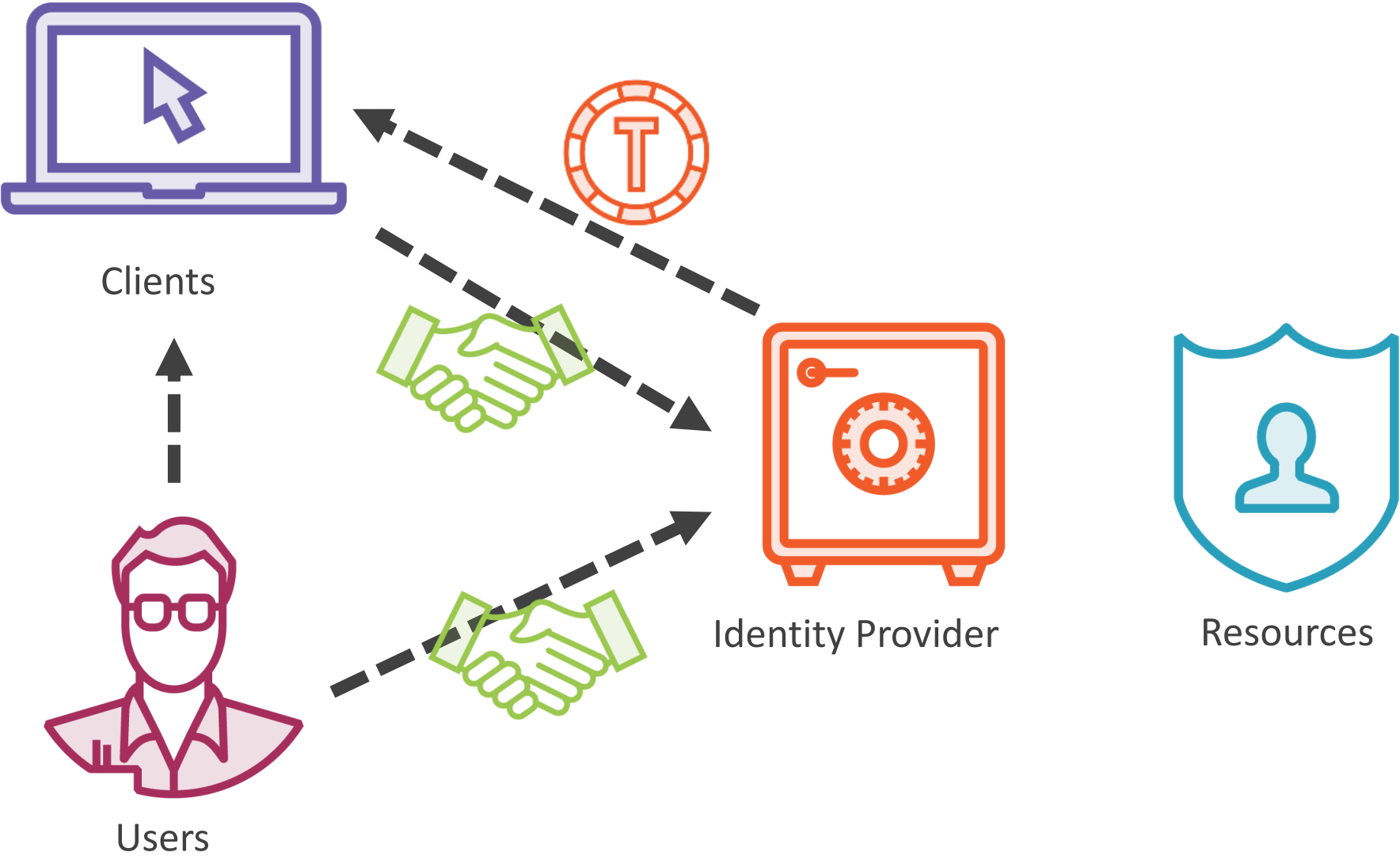
# A Typical Modern Application



# The Identity Provider



# Concepts



# Demo



Auth

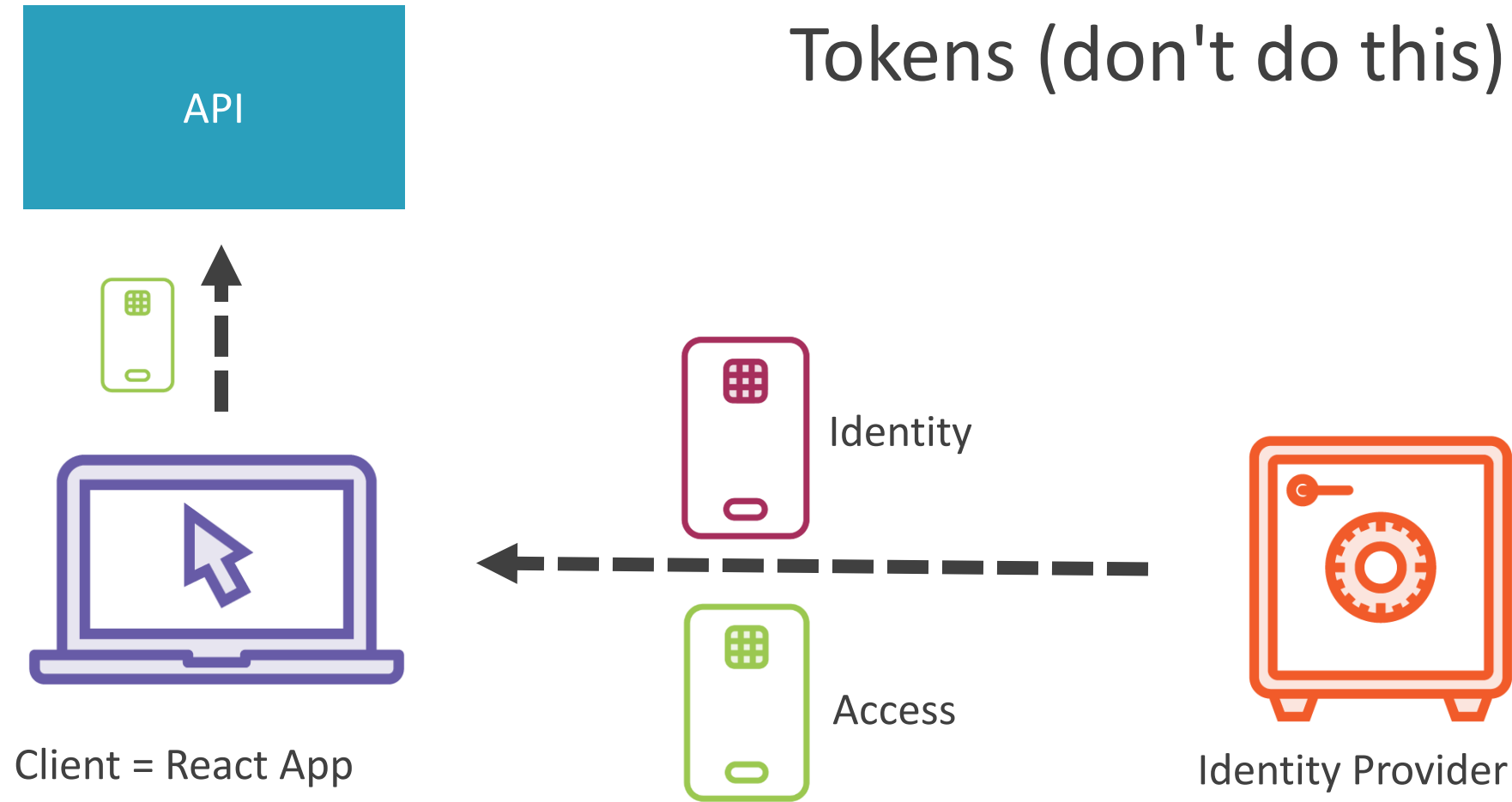


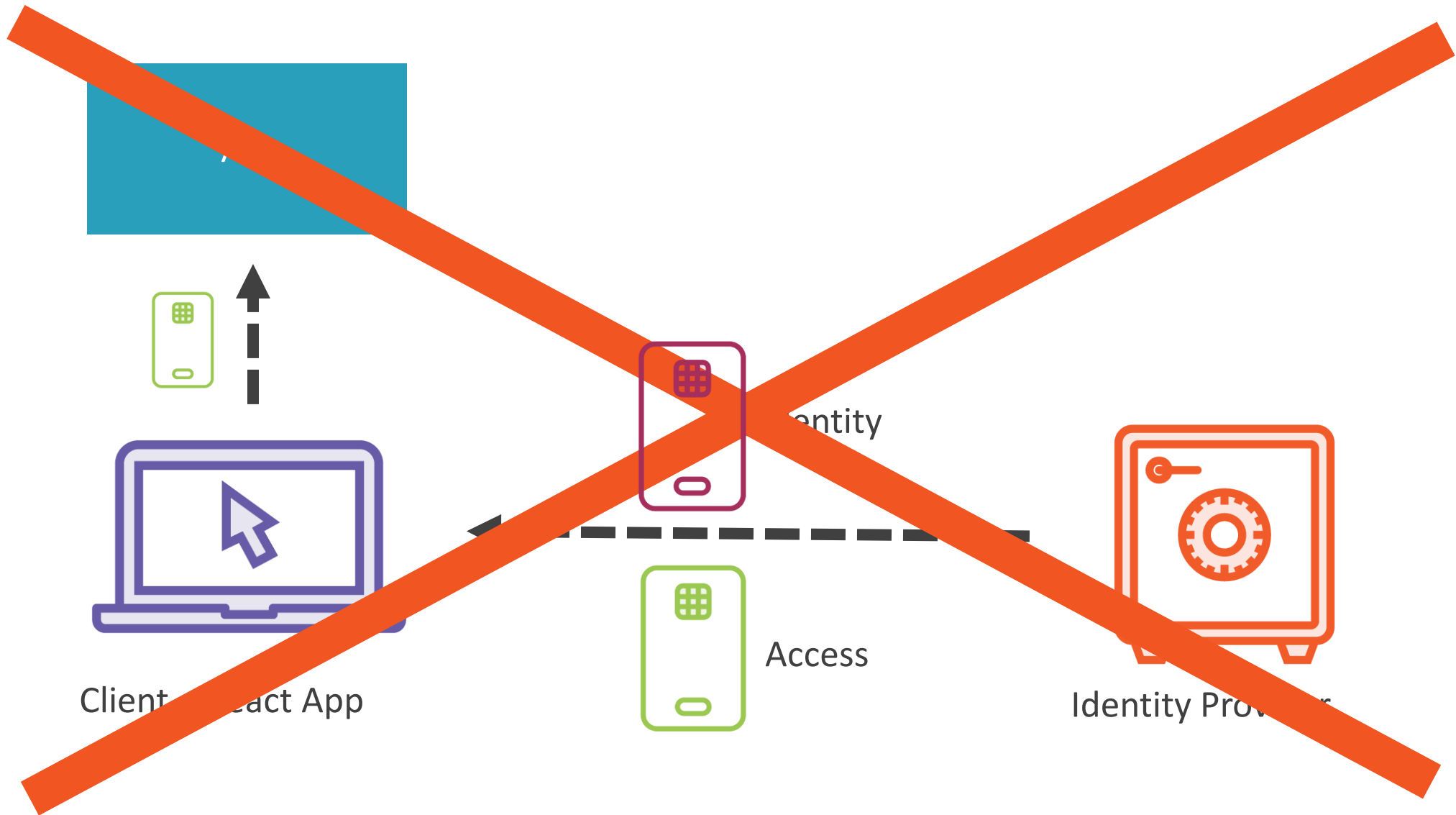
# Authentication with Blazor Wasm



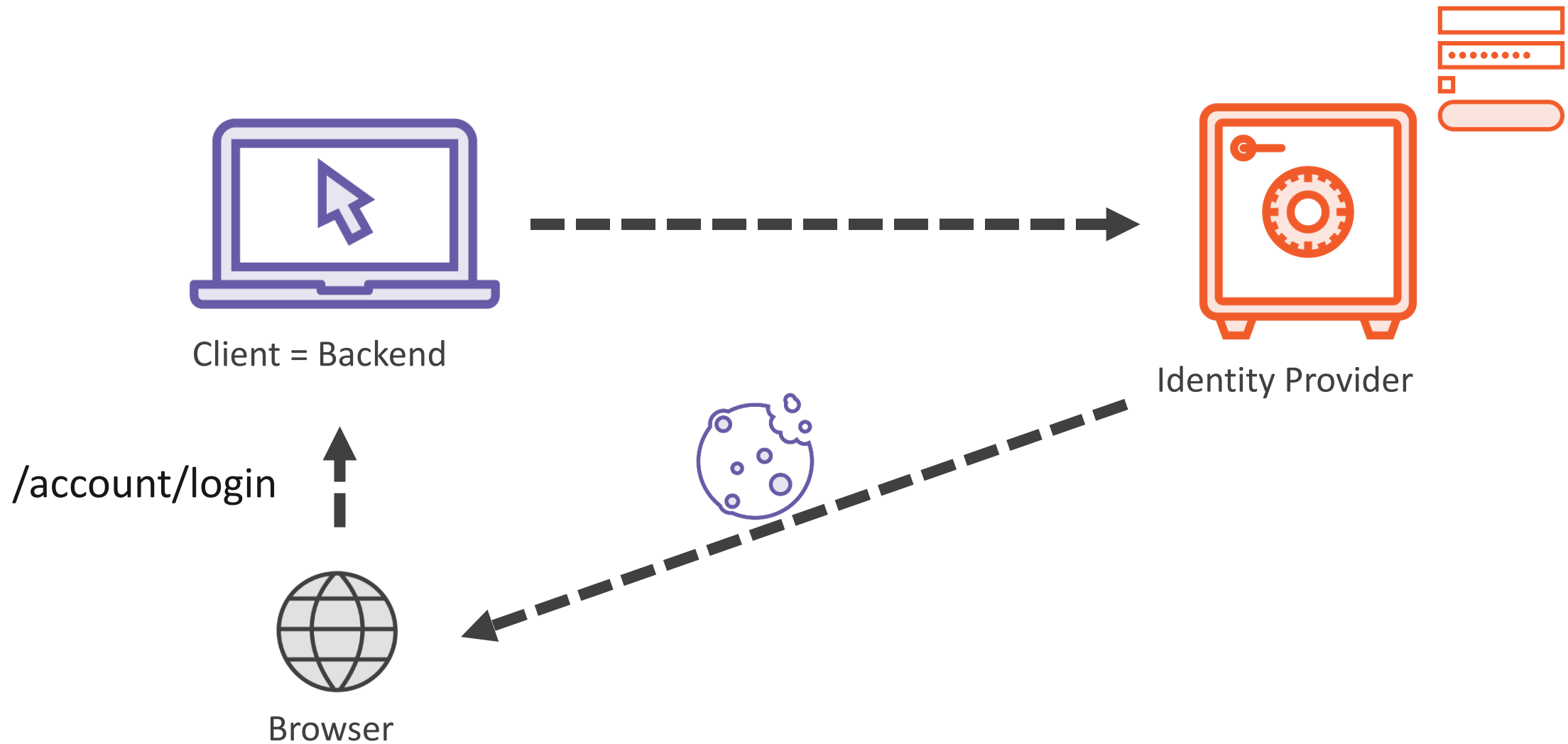


# Tokens (don't do this)

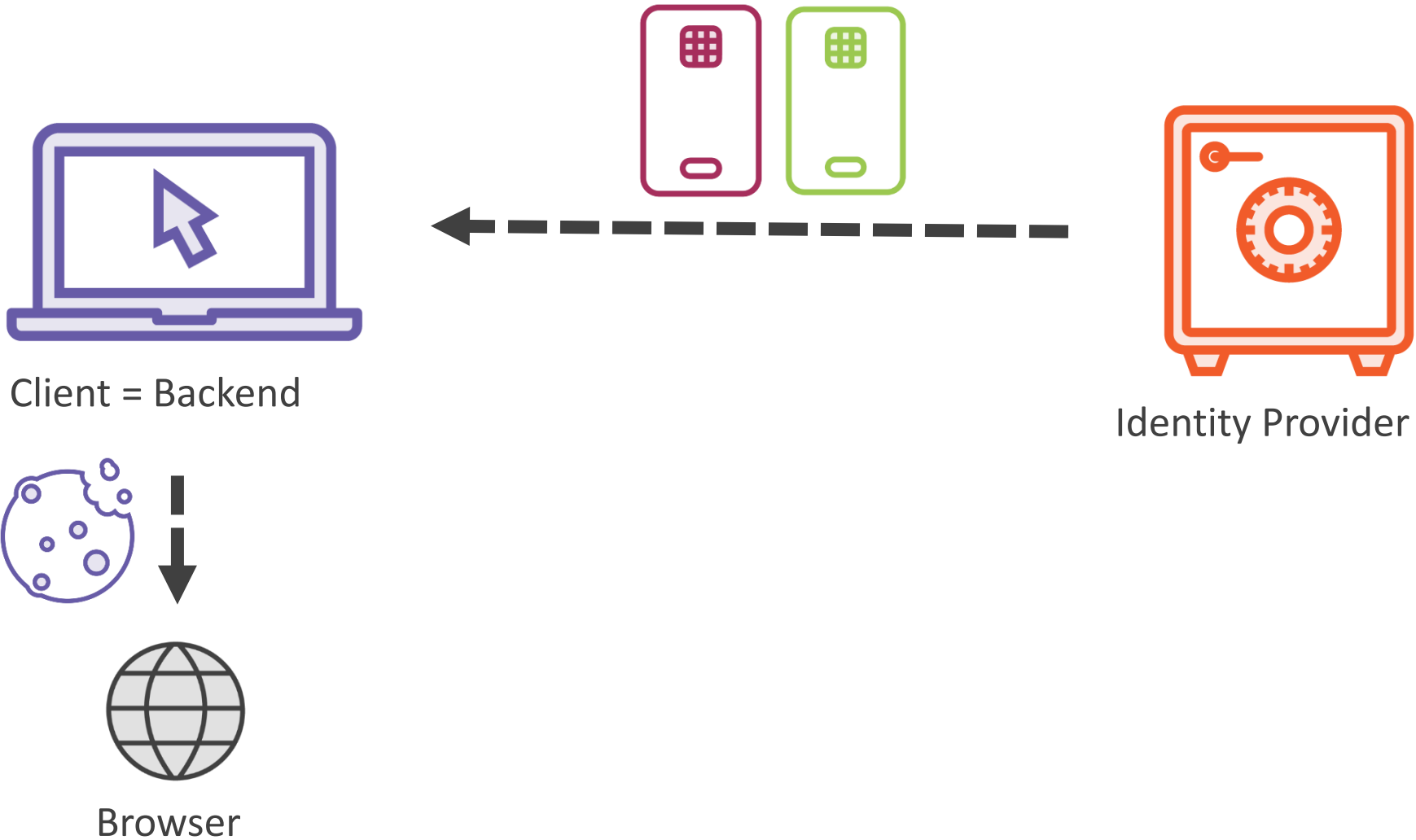




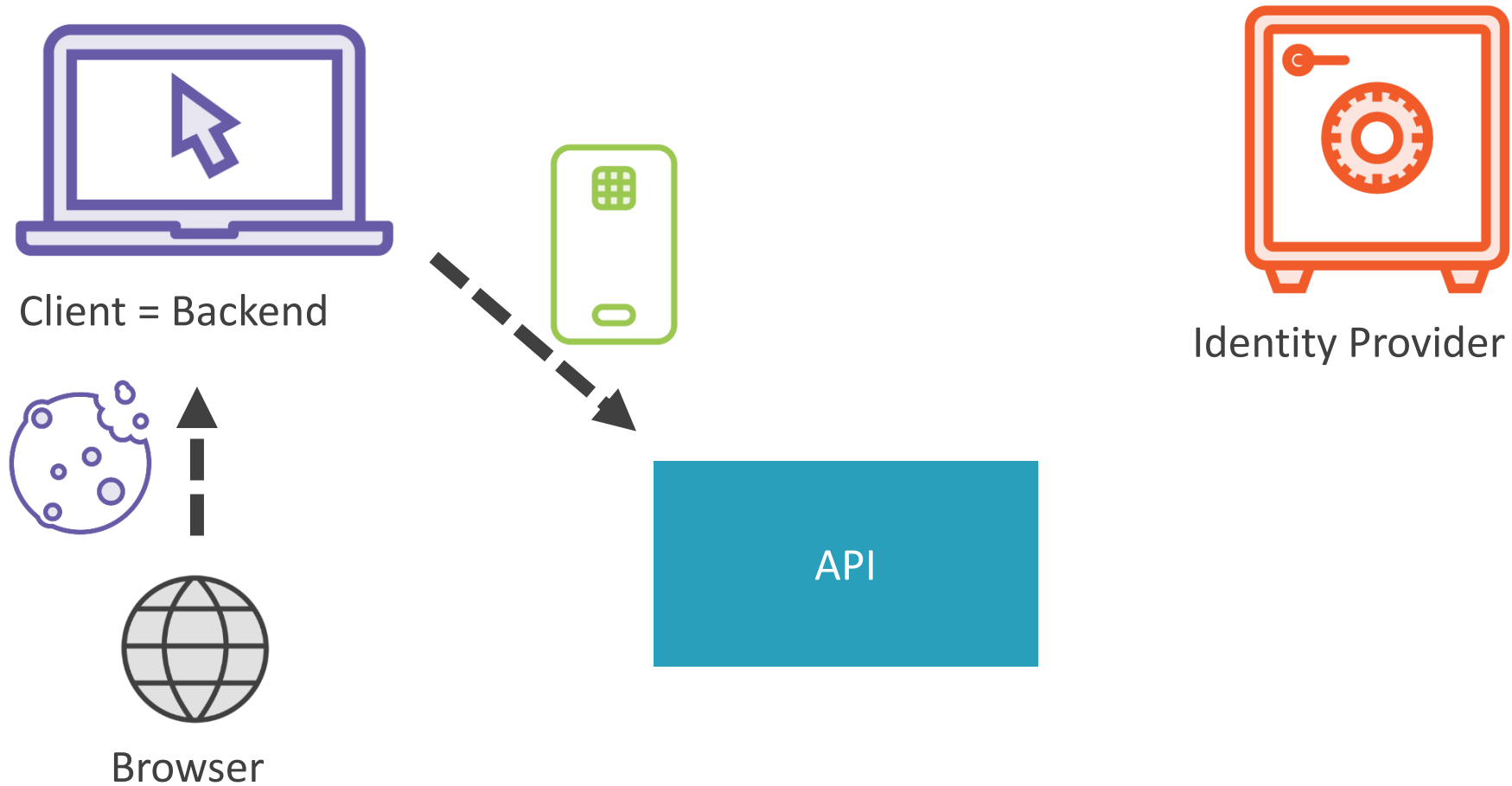
# OpenId Connect with BFF



# OpenId Connect with BFF



# OpenId Connect with BFF



# Lab time!

## Part 2



# Thanks

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