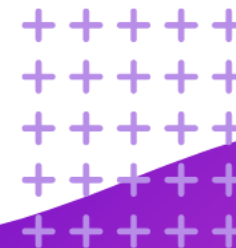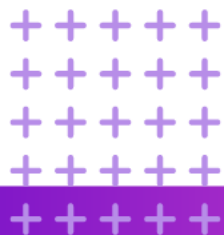# Non solo REST

Utilizzare GraphQL in Blazor

Alberto Mori – Software Developer @ Able Tech srl

Un grazie agli sponsor

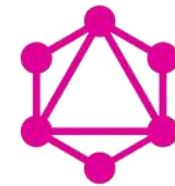# La solita applicazione Blazor

GET / POST / PUT / PATCH / DELETE
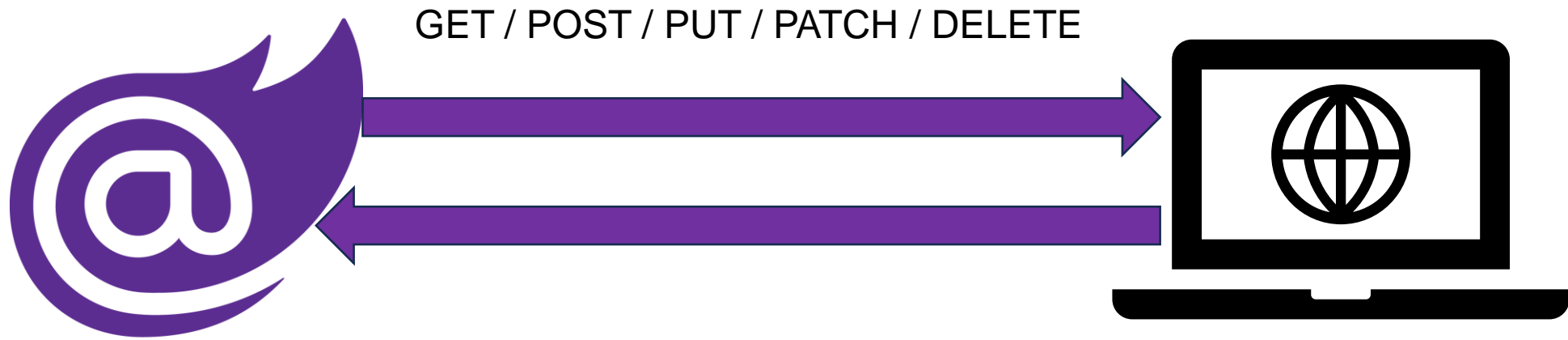
Come to the GraphQL side...

GraphQL…chi?!

"GraphQL is a query language for your API, and a server-side runtime for executing queries using a type system you define for your data."

https://graphql.org/learn/

GraphQL

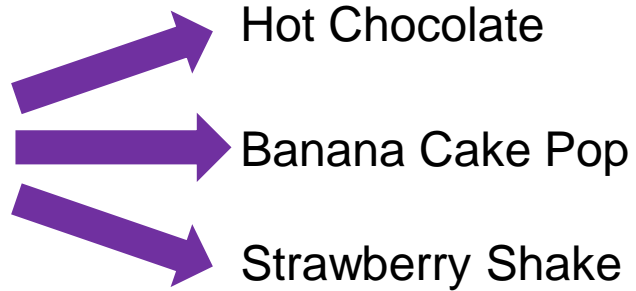# GraphQL building blocks

Query

Mutations

Subscriptions

GraphQL per .NET

GraphQL .NET (https://graphql-dotnet.github.io/)

ChilliCream (https://chillicream.com/)

Hot Chocolate

Banana Cake Pop

Strawberry Shake

GraphQL e Blazor

```
dotnet tool install StrawberryShake.Tools
```

(ma esiste anche una estensione per Visual Studio in preview)

Package *StrawberryShake.Blazor* da NuGet

```
dotnet graphql init <GraphQL Endpoint> -n <ClientName> -p <ProjectPath>
```

Episode 1
Queries

```graphql
query GetAllMovies (
  $numberOfItems: Int, $nextPageCursor: String, $previousPageCursor: String
) {
  allFilms(first: $numberOfItems, after: $nextPageCursor, before: $previousPageCursor) {
    films {
      ...MovieListItem
    },
    pageInfo {
      hasNextPage,
      hasPreviousPage,
      startCursor,
      endCursor
    }
  }
}

fragment MovieListItem on Film {
  id,
  title,
  episodeID,
  director,
  releaseDate
}
```

Demo Query

Episode 2
Mutations

```
mutation AddRate($episodeId: String!, $rate: Int!) {
  rateEpisode (rate: {episodeId: $episodeId, rate: $rate}) {
    average,
    numberOfRates
  }
}
```

Demo Mutations

Episode 3
Subscriptions

```graphql
subscription OnEpisodeRated($episodeId: String!) {
  episodeRated(episodeId: $episodeId) {
    average,
    numberOfRates
  }
}
```

Demo Subscriptions

Concludendo

Startup veloce e immediato, ma meglio la CLI dell'estensione per Visual Studio

Per casi semplici i componenti out-of-the box sono una manna dal cielo

Essendo autogenerato, alle volte bisogna ricordarsi di pulire e ricompilare da zero

Sono supportati solo alcuni tipi di dati scalari
(https://chillicream.com/docs/strawberryshake/v13/scalars)

Grazie!

@albx   @albx87   @albx87

https://t.me/+_kyyKaympJ5kOWQ0

https://www.morialberto.it

Spike Time

https://www.linkedin.com/in/morialberto

Link utili

Demo: https://www.github.com/albx/blazorconf2024

Documentazione HotChocolate: https://chillicream.com/docs/hotchocolate/v13

Documentazione StrawberryShake: https://chillicream.com/docs/strawberryshake/v13