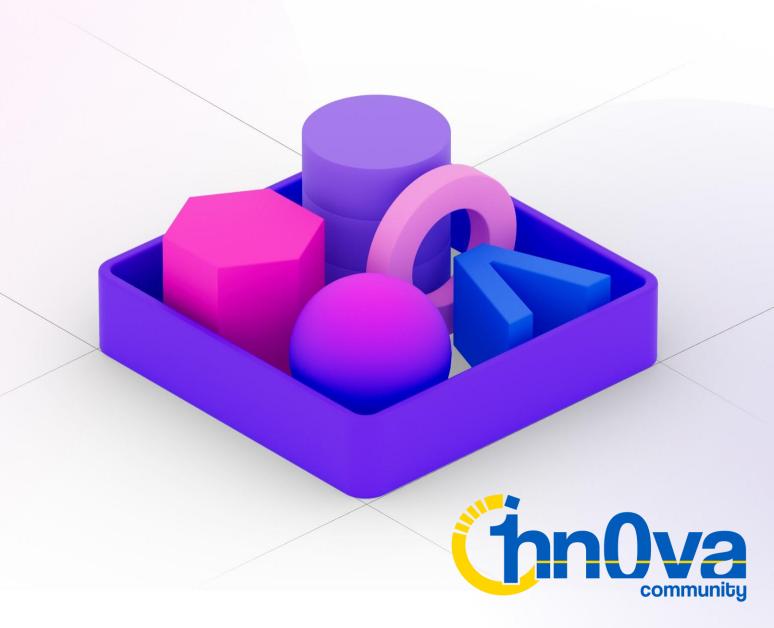
.NET Conf 2023



A altitudo

HoeanTech IT moves your business

[stesi]

Powered by Innovation



State Management in Blazor



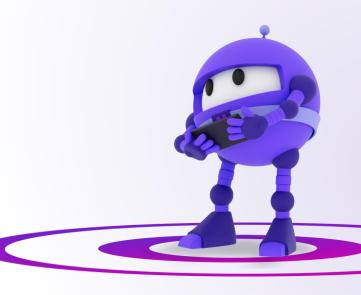
Diego Zunino

Account Manager

Ellycode



Fabio Spaziani Senior Developer Ellycode

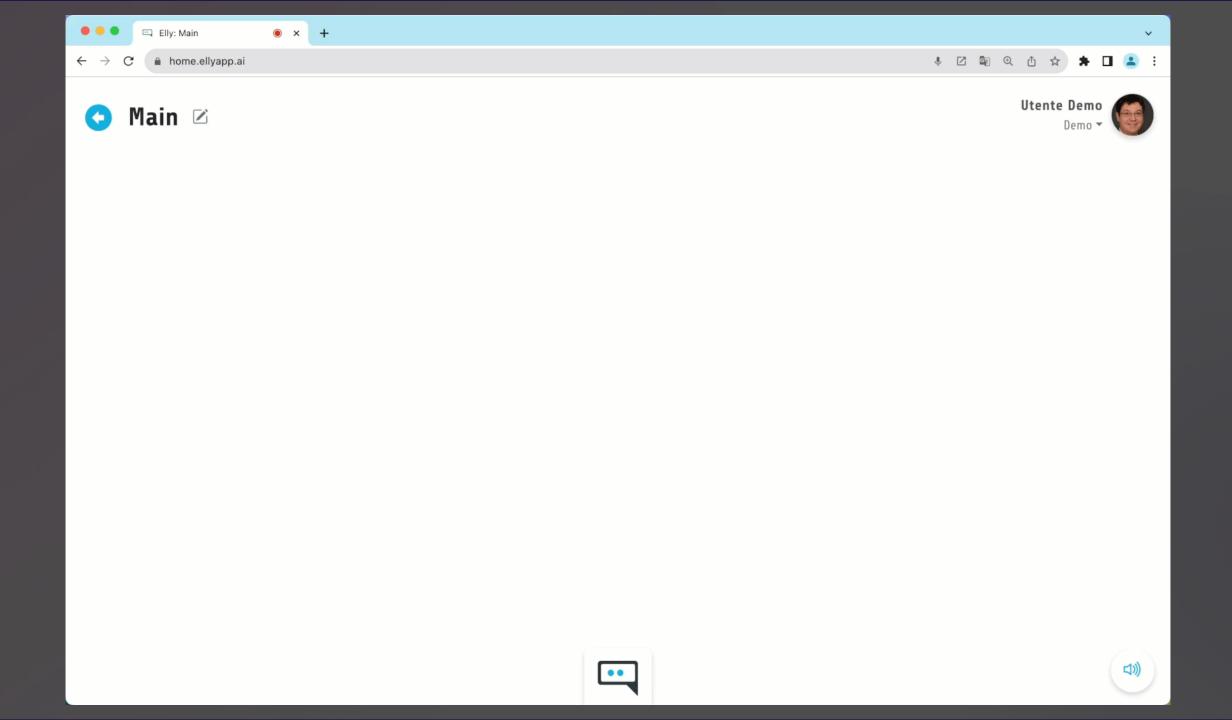


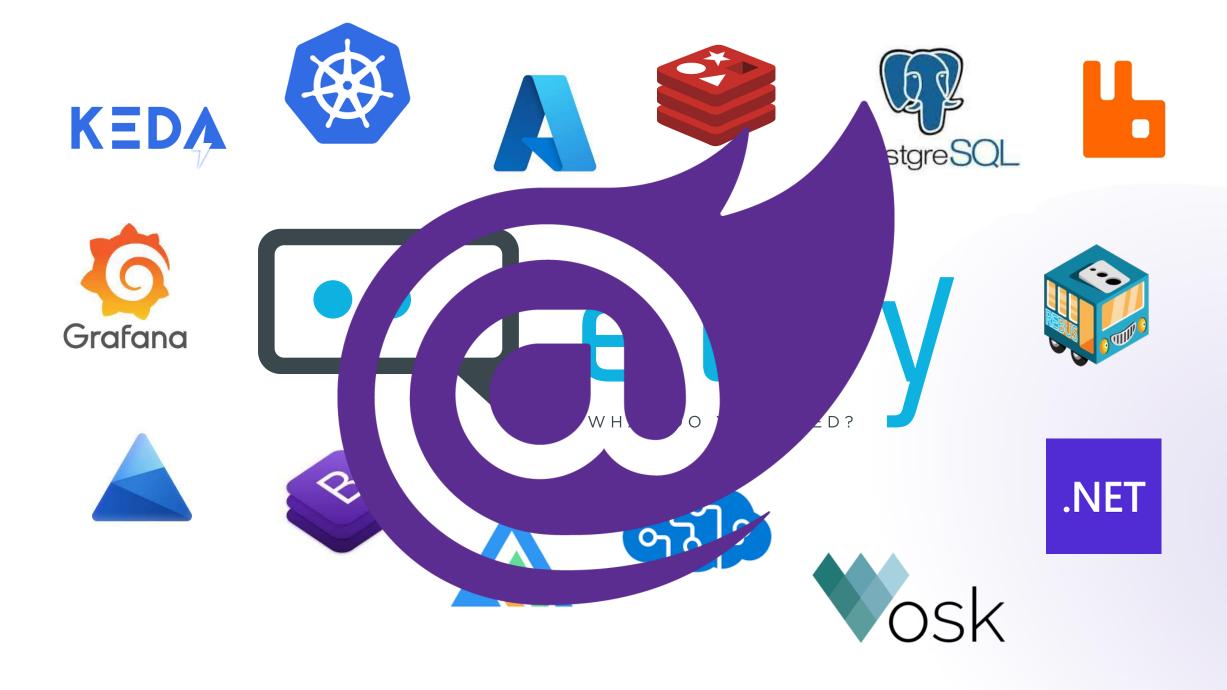


Che cos'è Elly?

Elly è una piattaforma per l'accesso, la manipolazione, la visualizzazione e la condivisione di dati aziendali utilizzando una User experience basata sul riconoscimento del linguaggio naturale

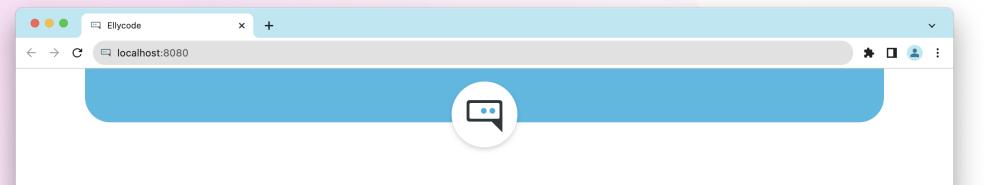






Perché Blazor?

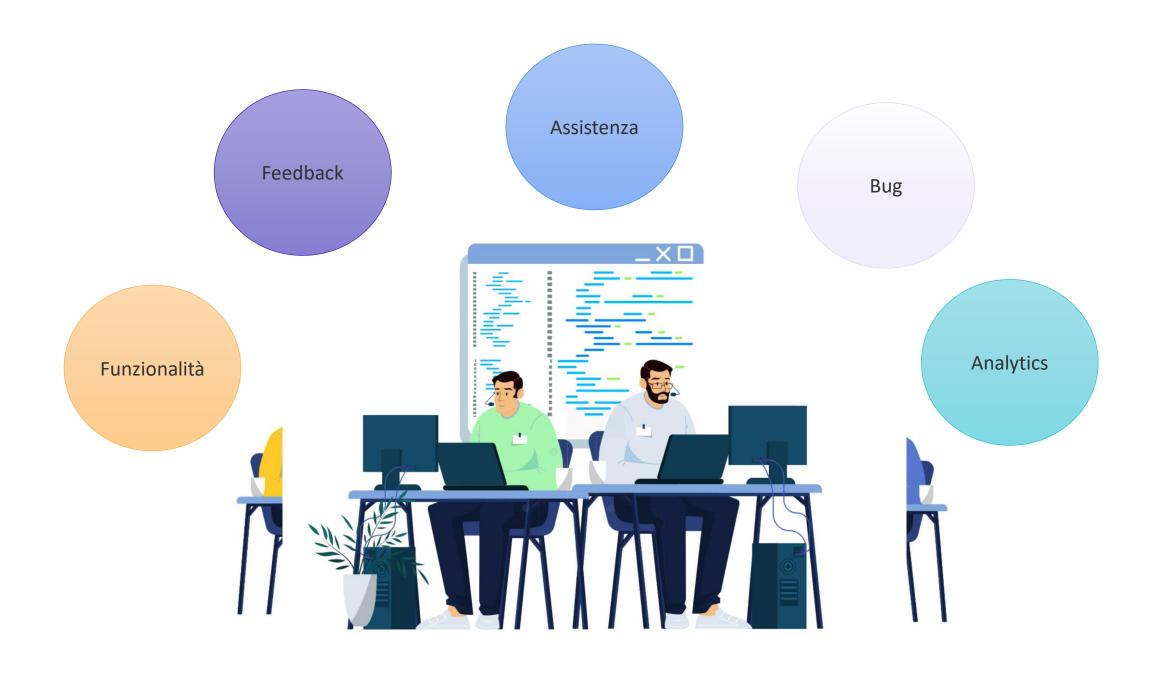
- C# e .NET
- Onboarding svilupr
 ori backeno
- Riutilizzo e cond sior
- Framework from en nocker e completo



Ciao Salvatore, cosa posso fare per te oggi?

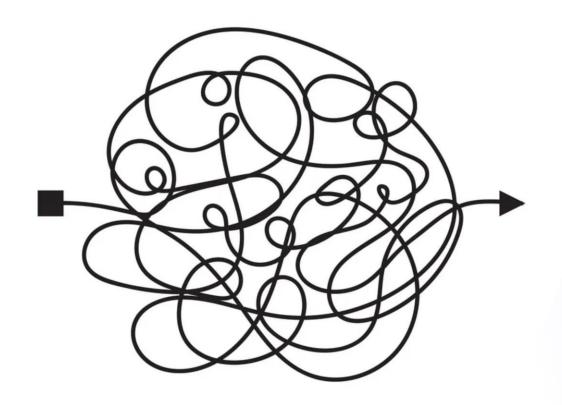








Complessità









Cosa posso fare per te?







Ц×

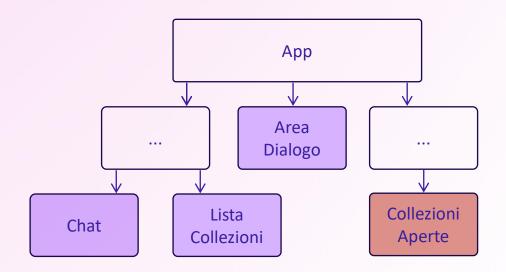






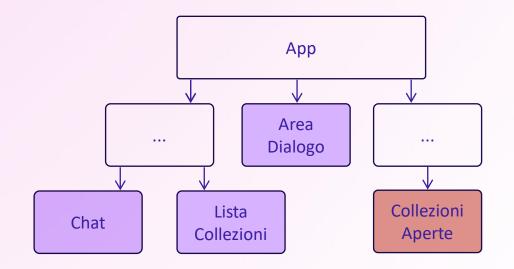


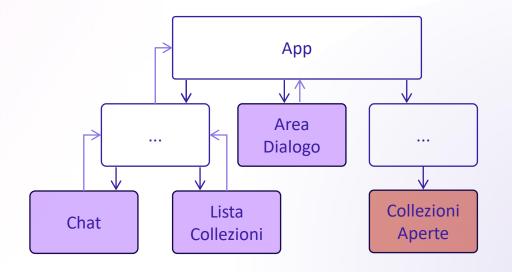
Schematizzazione





Schematizzazione

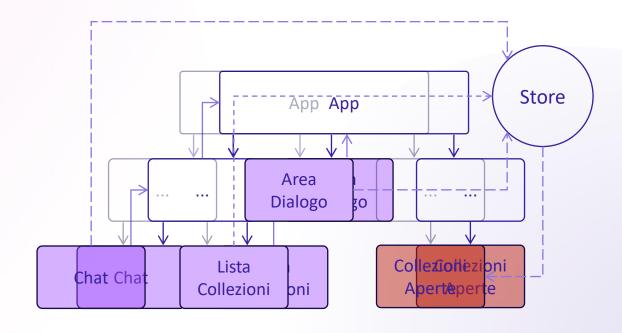




Componenti che leggono lo stato



Schematizzazione







St

```
public class CollectionStateService(ICollectionService collectionService): ICollectionStateService
     public event Action CollectionsChanged;
     public List<Collection> AvailableCollections { get; } = new();
     public List<CollectionDetails> DashboardCollections { get; } = new();
     public async Task OpenCollection(string collectionId)
         var currentCollection = await collectionService.Get(collectionId);
        DashboardCollections.Add(currentCollection);
         OnCollectionsChanged();
builder.Services.AddScoped<ICollectionStateService, CollectionStateService>();
        CollectionsChanged ?. Invoke();
     public async Task LoadAvailableCollections()
        var collections:Collection[] = await collectionService.GetAll();
         AvailableCollections.Clear();
        AvailableCollections.AddRange(collections);
         OnCollectionsChanged();
```

State container service

```
acode
    protected override void OnInitialized()
 <div class="container-fluid d-flex flex-wrap overflow-y-scroll">
     aforeach (var currentCollection in CollectionStateService.DashboardCollections)
         <CollectionCard CollectionDetails="currentCollection" >>
 </div>
        CollectionStateService.CollectionsChanged -= StateHasChanged;
```

Demo

State container service

State container service

PRO



- Tutto ciò che serve è già incorporato nel framework
- Chiara separazione delle responsabilità
- Altamente testabile

CONTRO



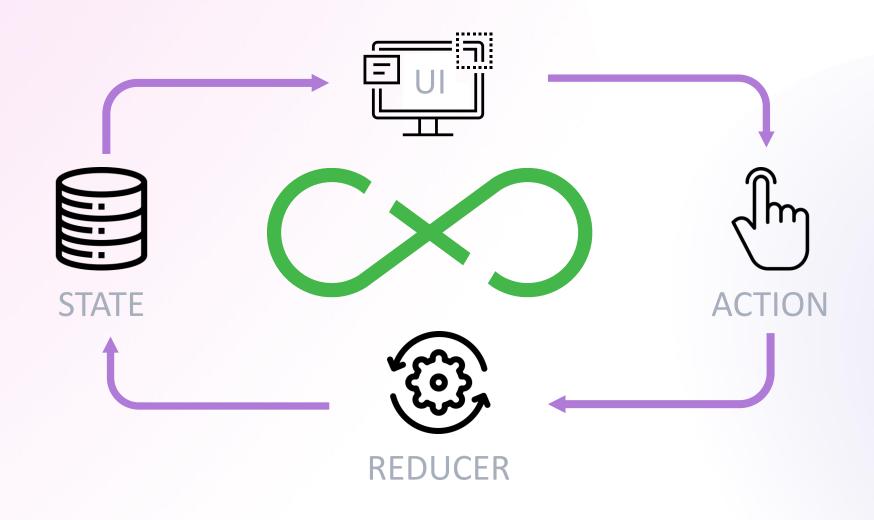
Incline agli errori



Può creare confusione su codebase grandi e complesse

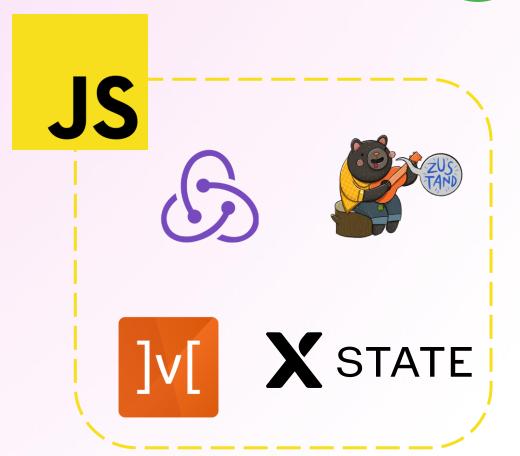


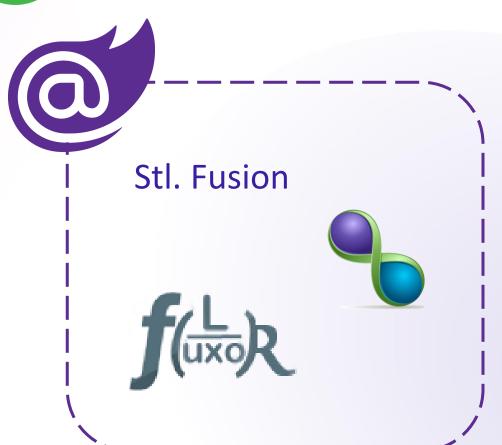
Una soluzione ad un problema noto



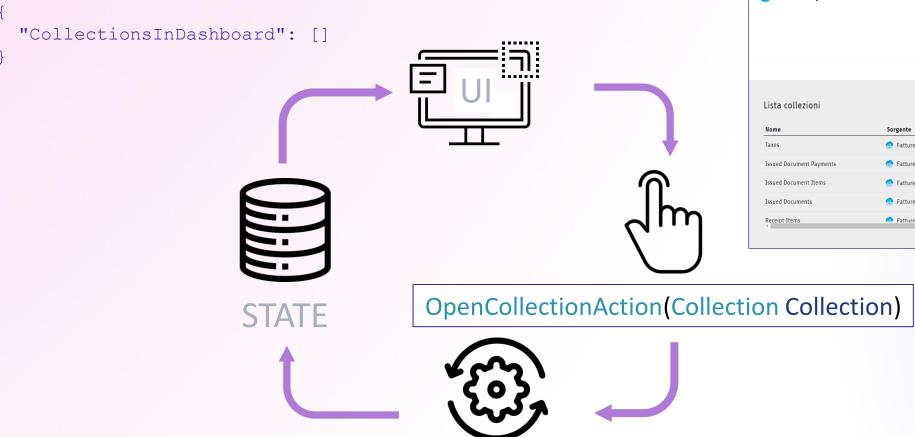
Flux?







Un esempio applicato



(State state, OpenCollectionAction action) =>

Development Dashboard

••

Q Cerca

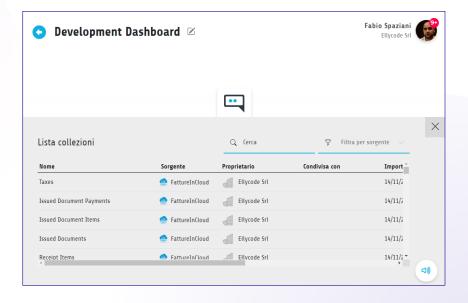
Filtra per sorgente

14/11/2 14/11/2 14/11/2

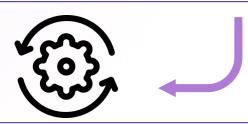
state with { CollectionsInDashboard = state.CollectionsInDashboard.Add(action.Collection) }

Un esempio applicato

```
"CollectionsInDashboard": [
{"Id":"id-1", "Name":"Fatture
Consolidate"}
]
}
```



OpenCollectionAction(Collection Collection)

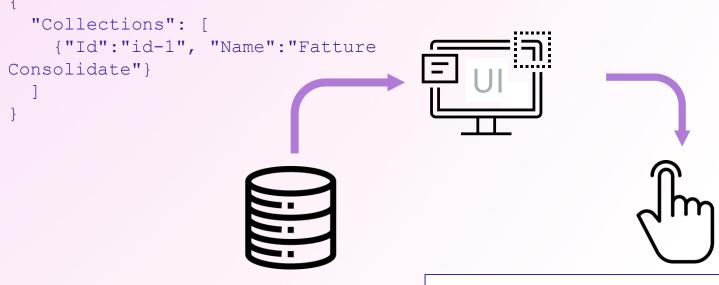


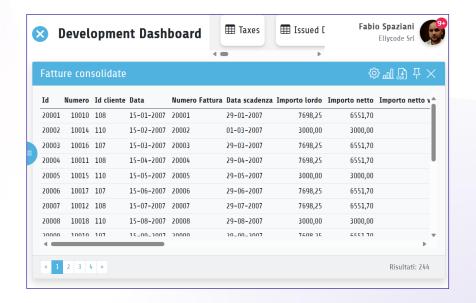
(State state, OpenCollectionAction action) =>

state with { CollectionsInDashboard = state.CollectionsInDashboard.Add(action.Collection) }

Un esempio applicato

Stato Immutabile





OpenCollectionAction(Collection Collection)



Funzioni Pure

(State state, OpenCollectionAction action) =>

state with { CollectionsInDashboard = state.CollectionsInDashboard.Add(action.Collection) }

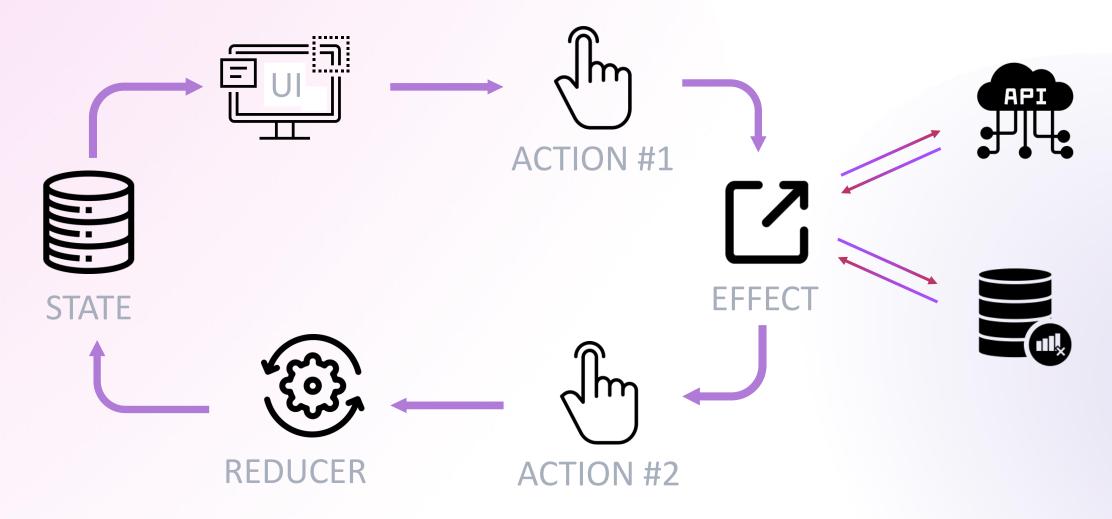
Che vantaggio mi offre?

```
"CollectionsInDashboard":
                   OpenCollectionAction(Collection Collection)
```

Che vantaggio mi offre?

```
"CollectionsInDashboard":
    {"Id":"id-1", "Name":"Fatture
Consolidate" }
                     OpenCollectionAction(Collection Collection)
```

Flux: tutto qui?



Demo

Fluxor

Flux pattern - Pro & Contro

PRO Disaccoppiamento Composizione **Testabilità** ReduxDevTools

CONTRO







X Ho già detto verboso?!



Wrap Up

- Cosa è lo «Stato applicativo»
- Cosa vuole dire fare state management
- Gli state container service
- Il pattern Flux e l'implementazione Fluxor
- ...e .NET8?

Interactive Mode	State management?
Static Server	
Interactive Server	
Interactive WebAssembly	
Interactive Auto	

Domande?



Diego Zunino

Account Manager

Ellycode



Fabio Spaziani Senior Developer Ellycode











