
devSum>

Hands-On building Cloud Native .NET applications using Microsoft Orleans and AKS

Johnny Hooyberghs













Here's Johnny

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- Passionate Developer
- Principal Software Consultant/Architect (.NET)
- Microsoft MVP, Developer Technologies
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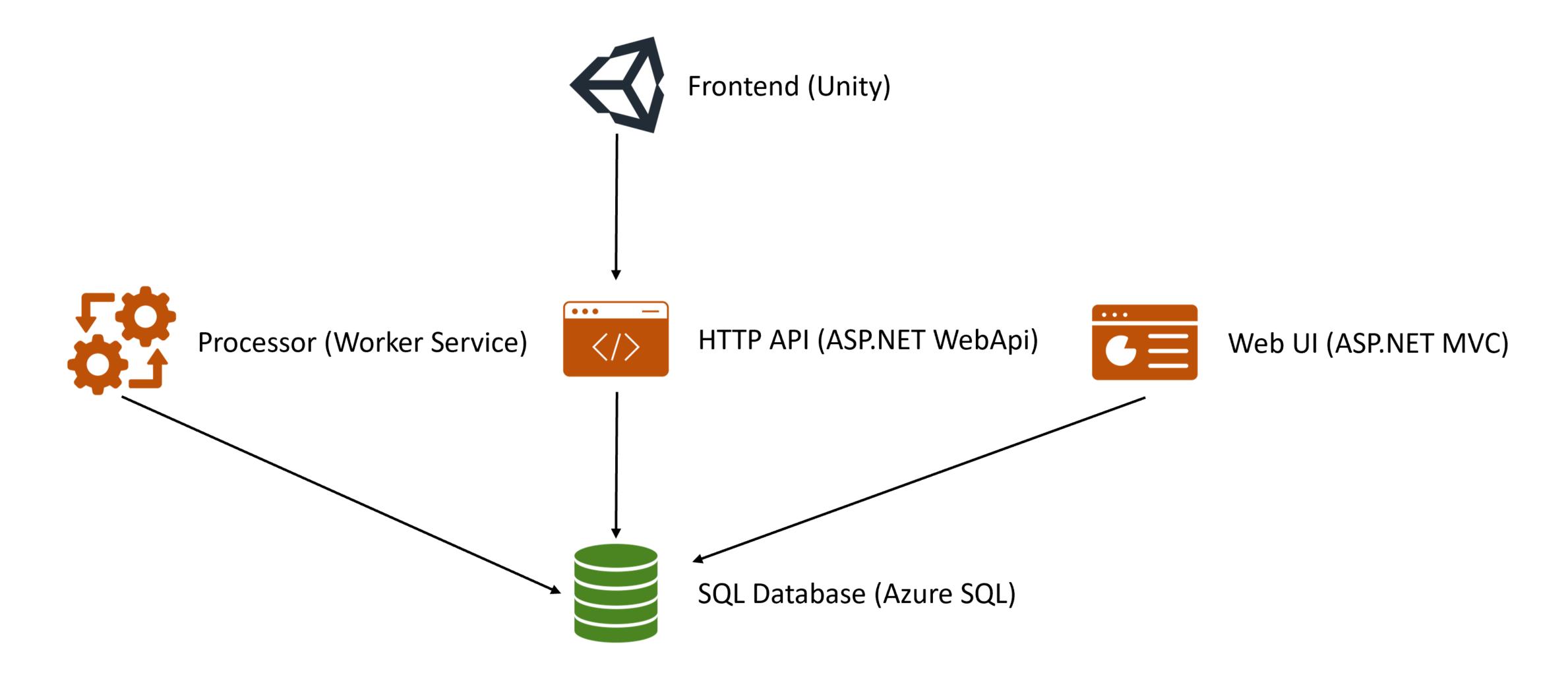




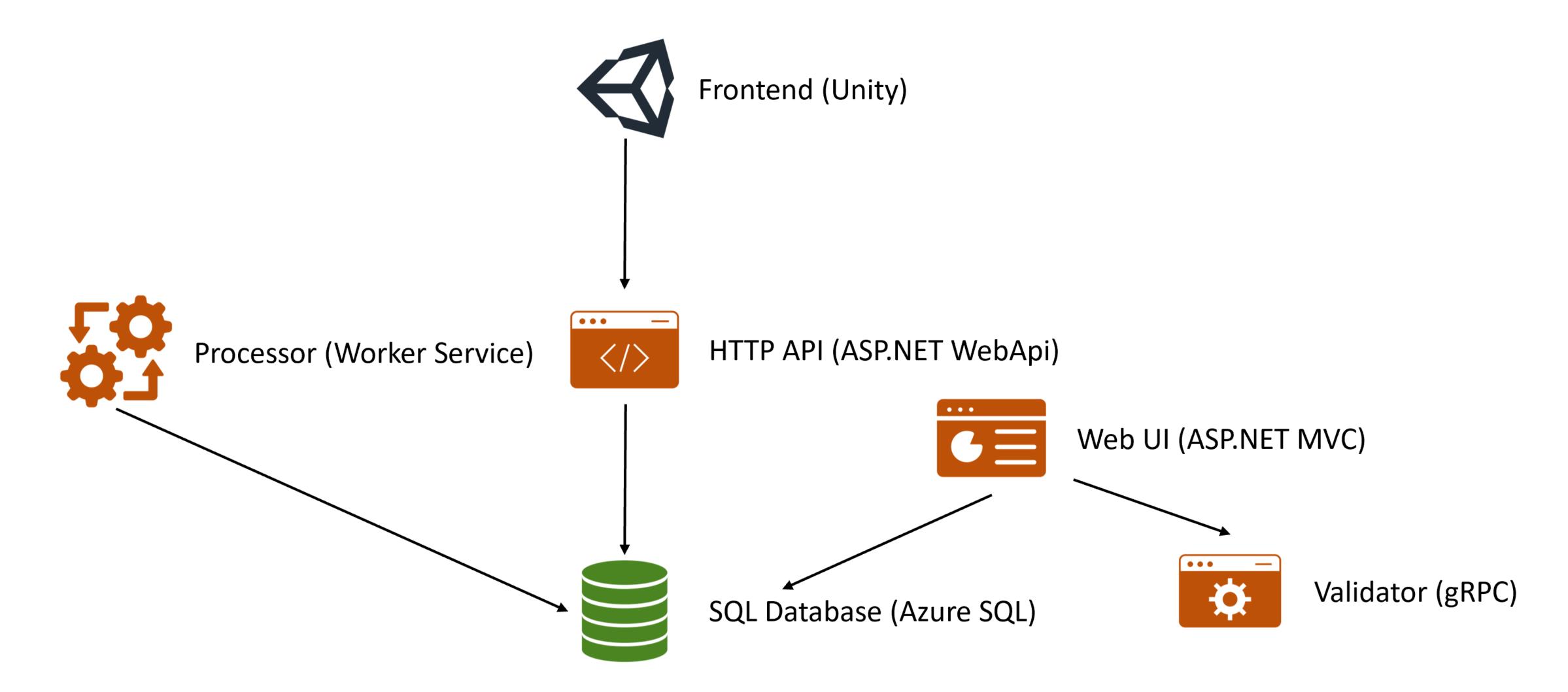
CSharpWars

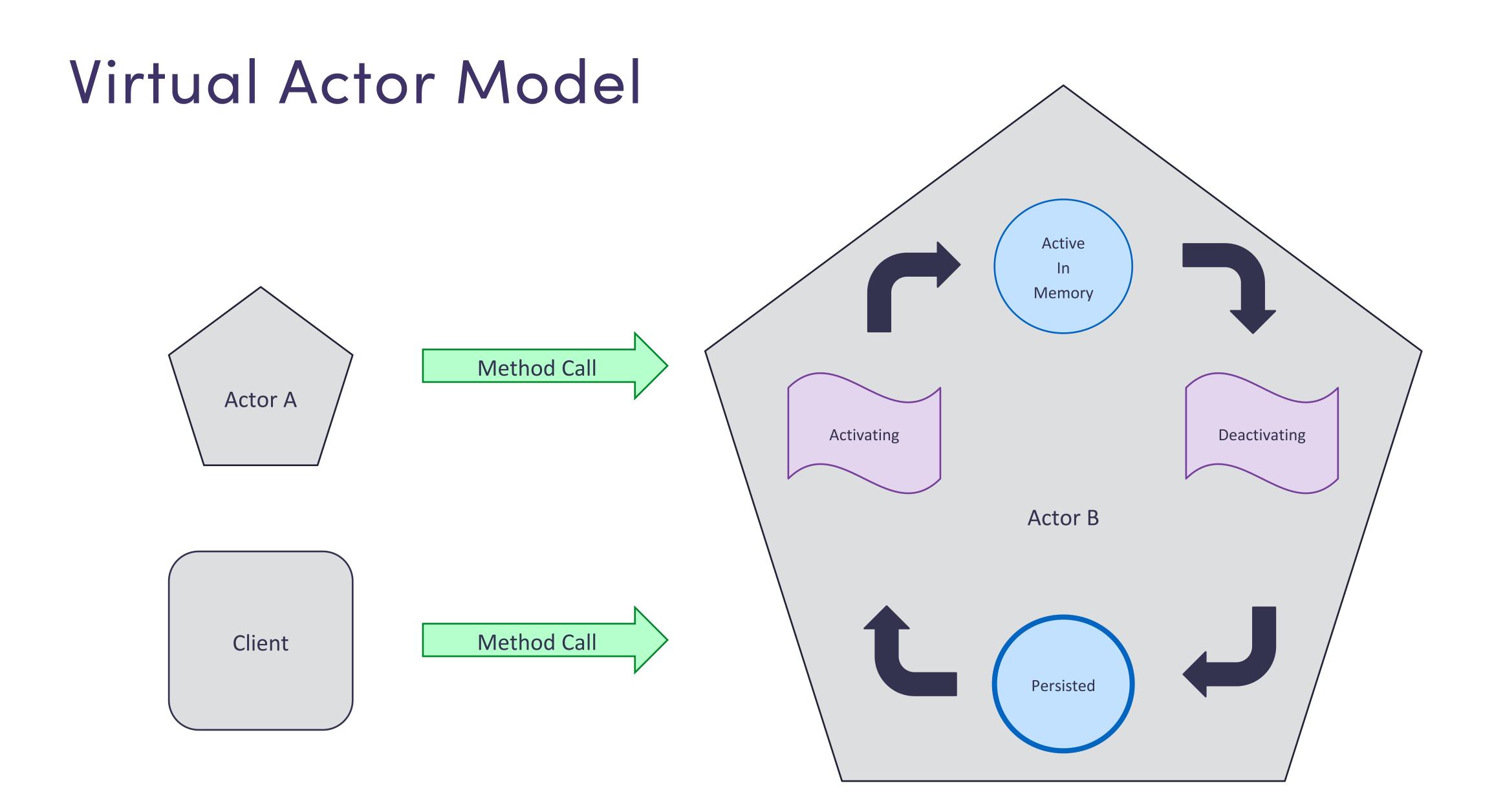
```
var step = LoadFromMemory<Int32>("STEP");
if( step % 3 == 0 )
    TurnLeft();
else
    WalkForward();
step++;
StoreInMemory<Int32>("STEP", step);
```

CSharpWars (first version)

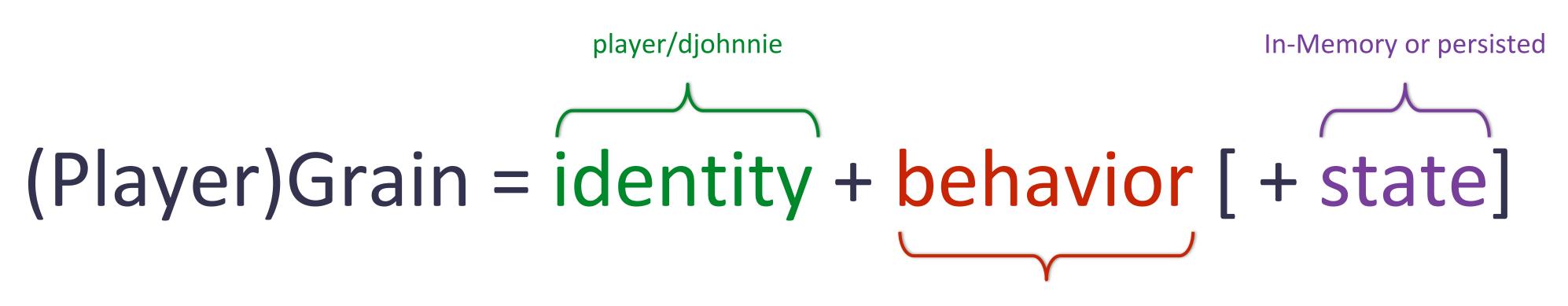


CSharpWars (second version)





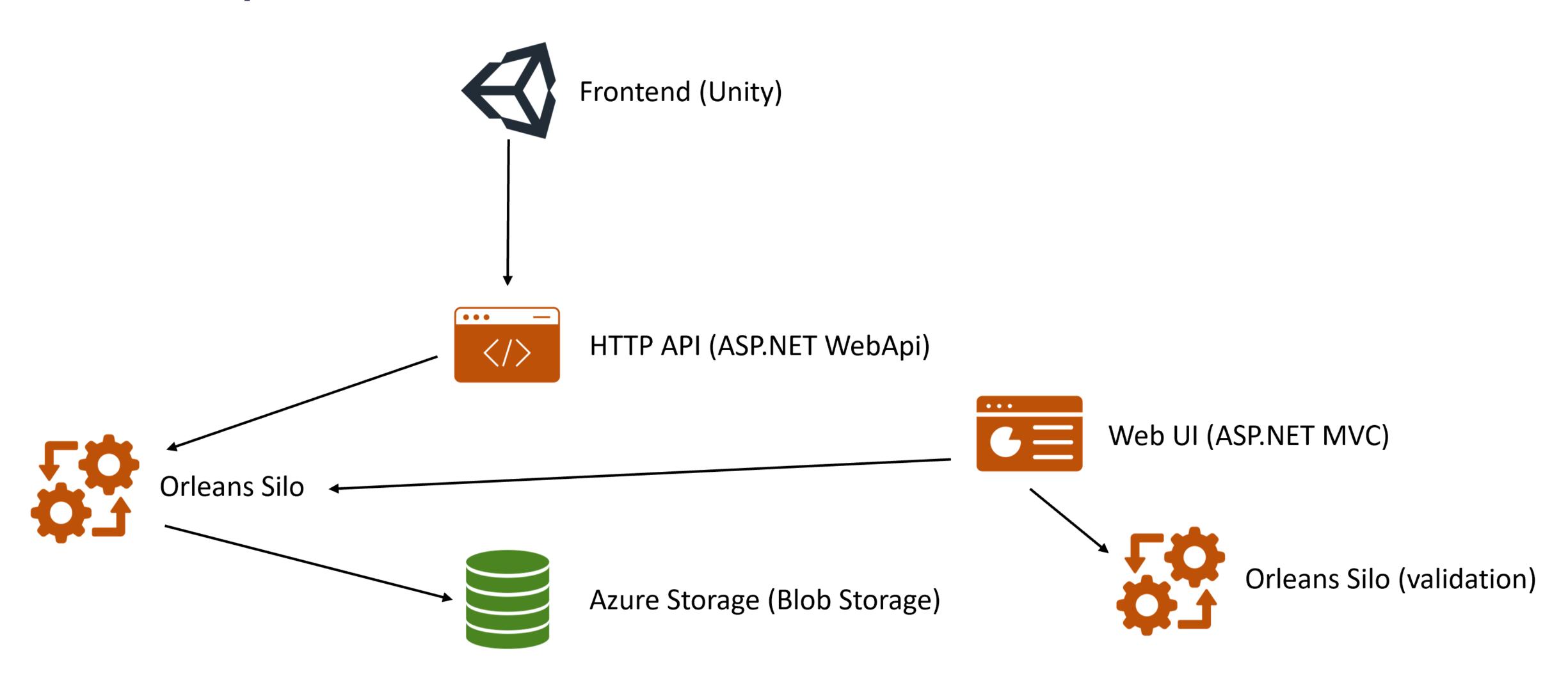
Grains



Silos

PlayerGrain ArenaGrain BotGrain ValidationGrain PlayerGrain ScriptGrain ValidationGrain ArenaGrain PlayerGrain BotGrain BotGrain BotGrain ScriptGrain ScriptGrain BotGrain ScriptGrain BotGrain ScriptGrain ScriptGrain PlayerGrain

CSharpWars (Orleans version)

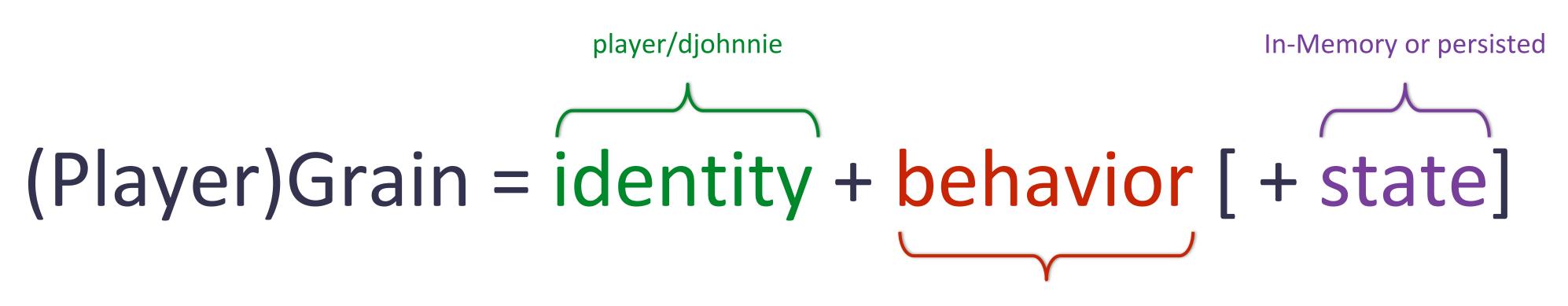


CSharpWars demo

Try it for yourself: https://web.csharpwars.com



Grains



Grains

- Grain Identity
- Persistence & State
- Timers and Reminders
- Placement
- Activation GC

Silos

PlayerGrain BotGrain ArenaGrain ValidationGrain PlayerGrain ScriptGrain ArenaGrain ValidationGrain BotGrain PlayerGrain BotGrain ScriptGrain ScriptGrain BotGrain ScriptGrain BotGrain BotGrain ScriptGrain ScriptGrain PlayerGrain

Silos

- Hosting
- Clients
- Heterogeneous silos

Questions?

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https://github.com/Djohnnie/BuildingCloudNativeApplicationsUsingOrleans-DevSum-2023