On INET Live

Building a game with .NET and Orleans
with Johnny Hooyberghs



Here's Johnny

- in Johnny Hooyberghs
- © @djohnnieke
- johnny.hooyberghs@involved.be
- Passionate Developer
- Principal Software Consultant/Architect (.NET)
- Microsoft MVP, Developer Technologies
- Operational Manager at Involved



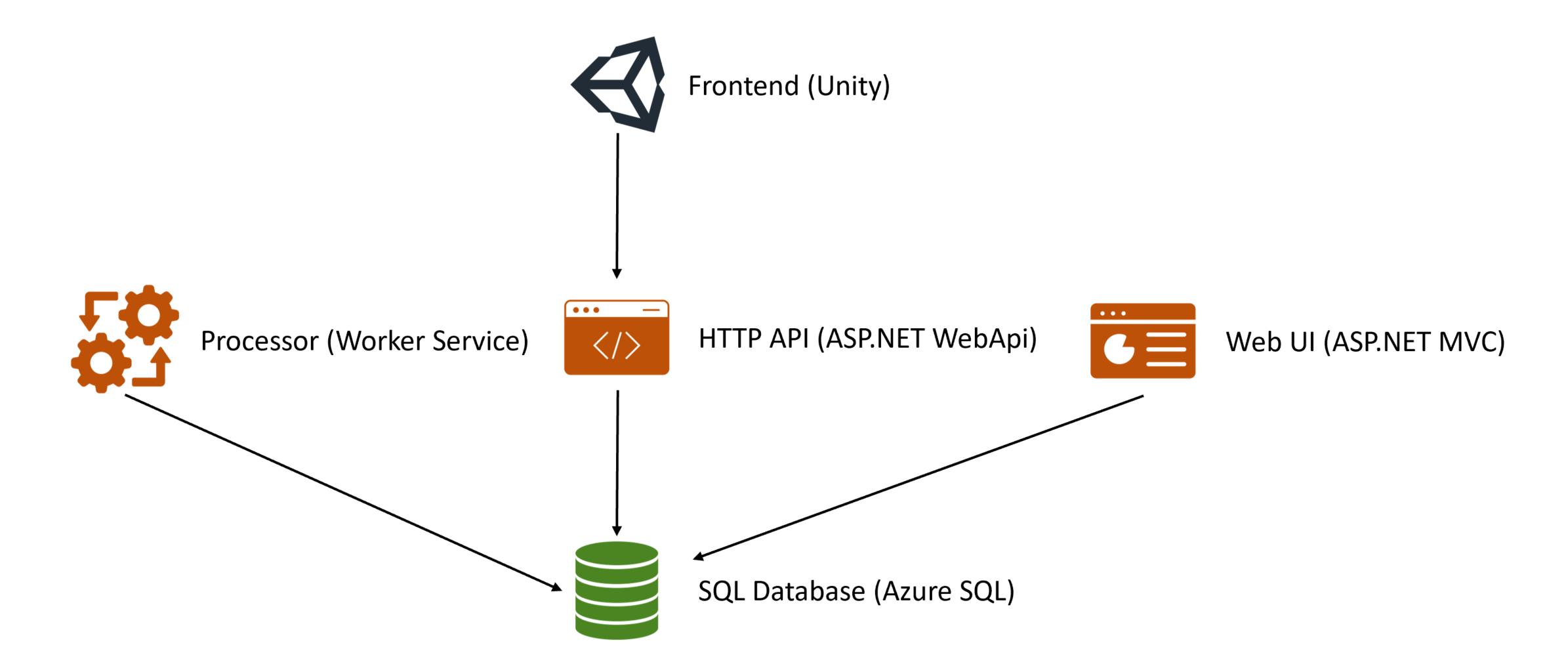




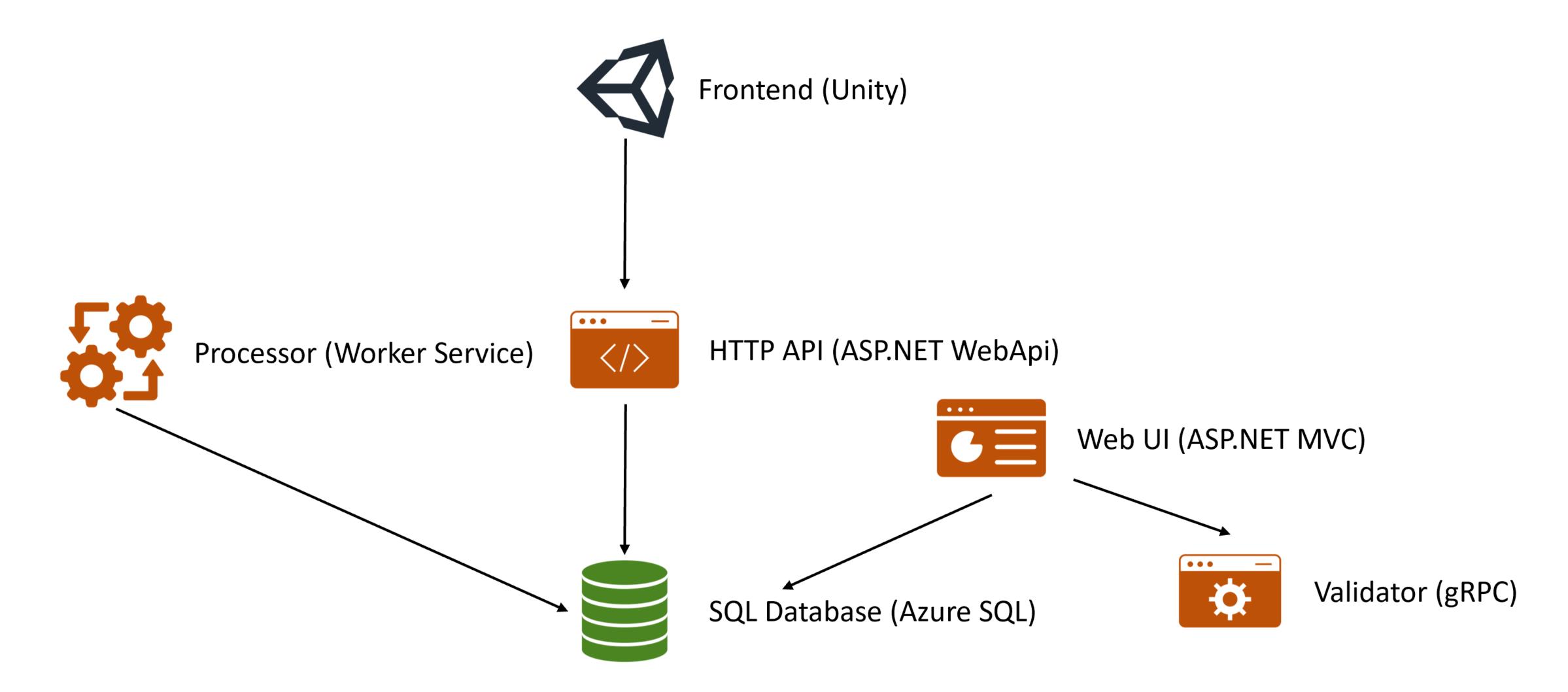
CSharpWars

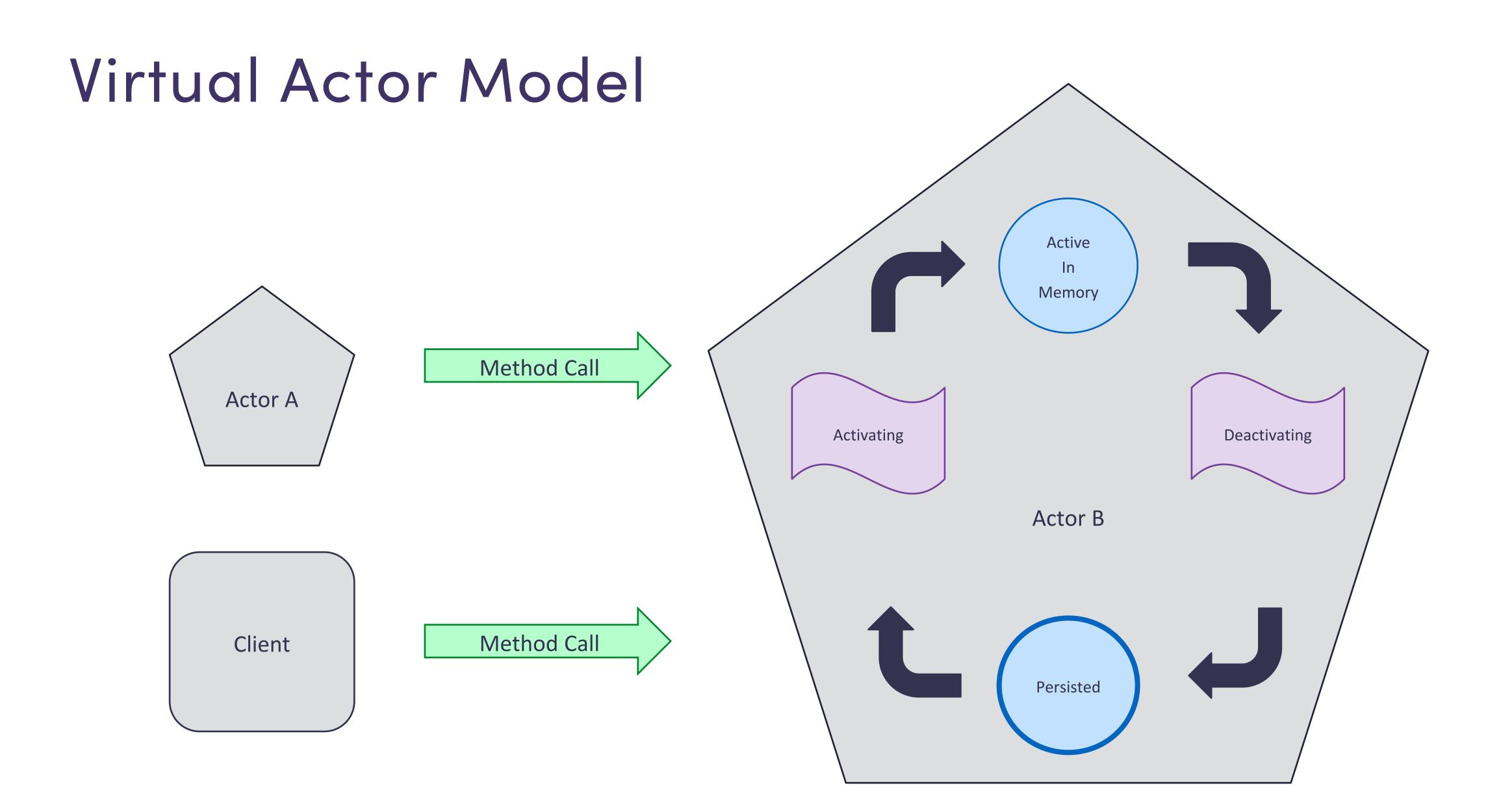
```
var step = LoadFromMemory<Int32>("STEP");
if( step % 3 == 0 )
    TurnLeft();
else
    WalkForward();
step++;
StoreInMemory<Int32>("STEP", step);
```

CSharpWars (first version)

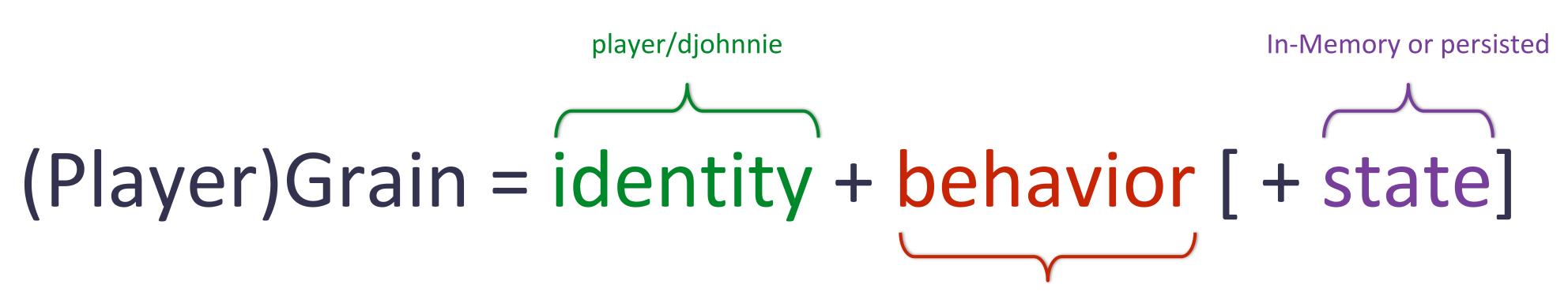


CSharpWars (second version)





Grains

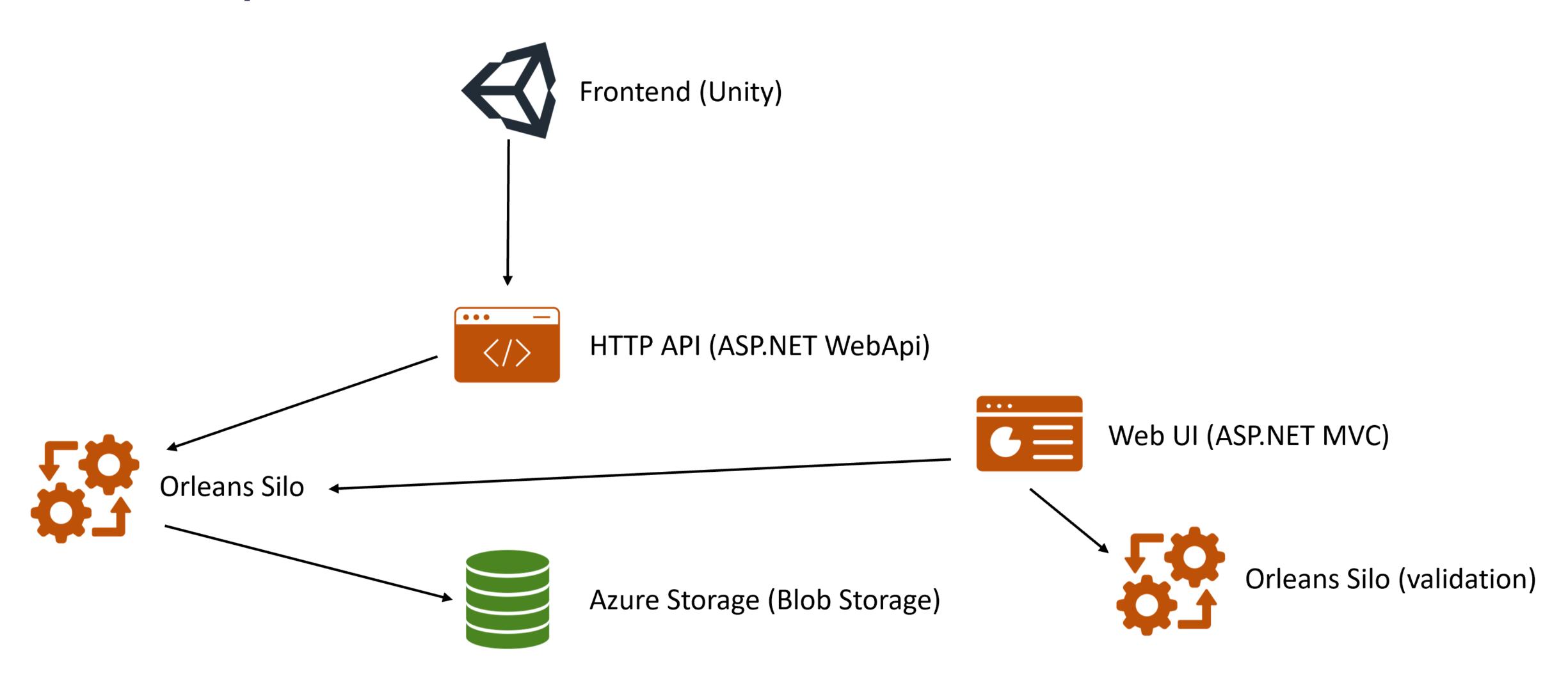


PlayerGrain: Grain, IPlayerGrain

Silos

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

CSharpWars (Orleans version)

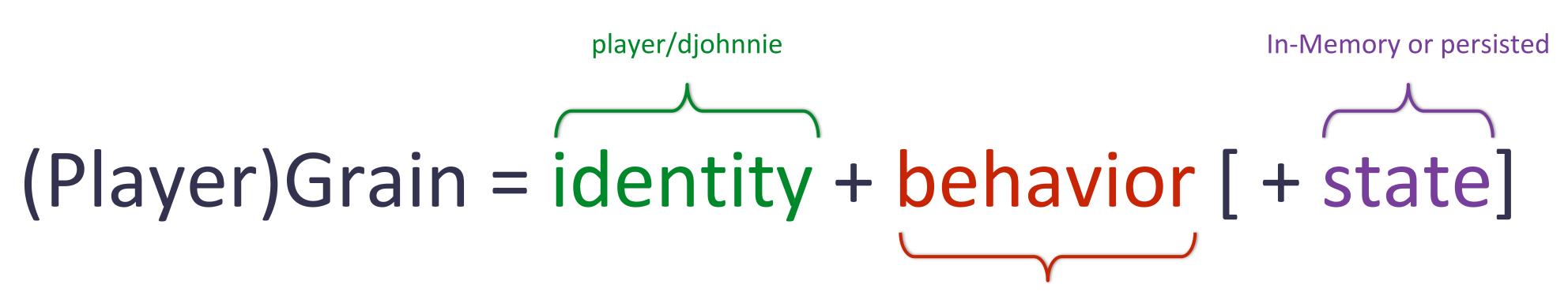


CSharpWars demo

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



Grains



PlayerGrain: Grain, IPlayerGrain

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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github.com/Djohnnie/BuildingAGameWithDotNetAndOrleans-OnDotNetLive-2023