Re: factor

Johnny Hooyberghs

Introduction to Microsoft Orleans



Here's Johnny

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











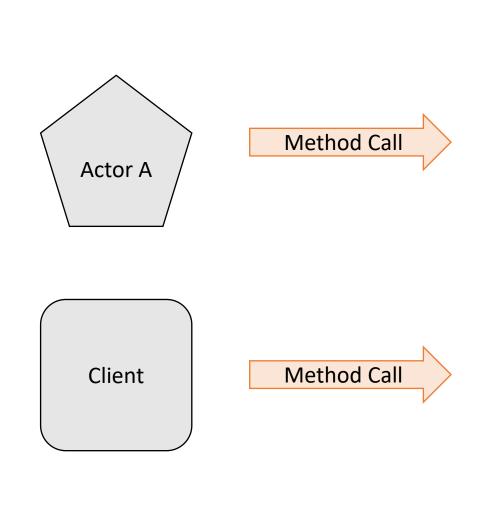


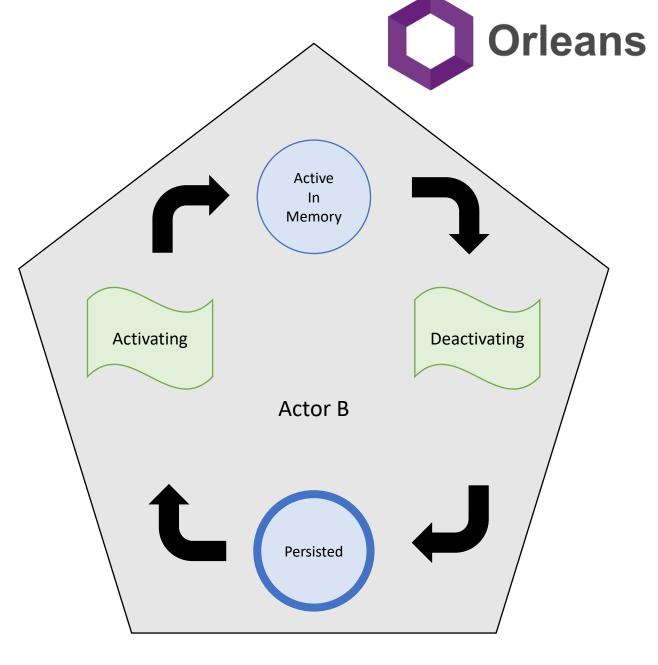


CSharpWars

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

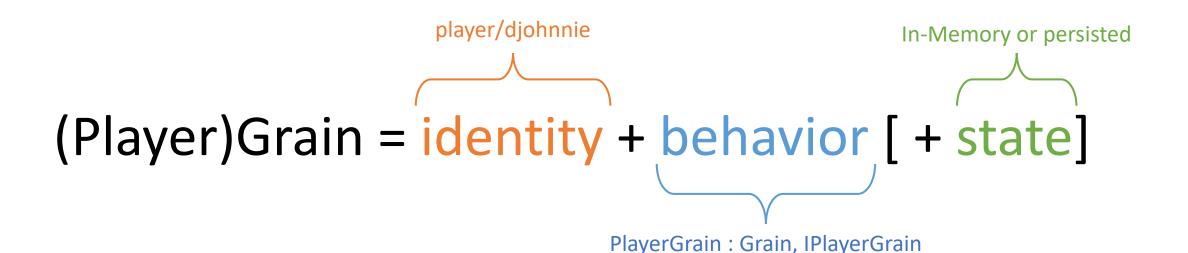
Virtual Actor Model







Grains





Silos

PlayerGrain

ArenaGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

PlayerGrain

ArenaGrain

PlayerGrain

PlayerGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

BotGrain

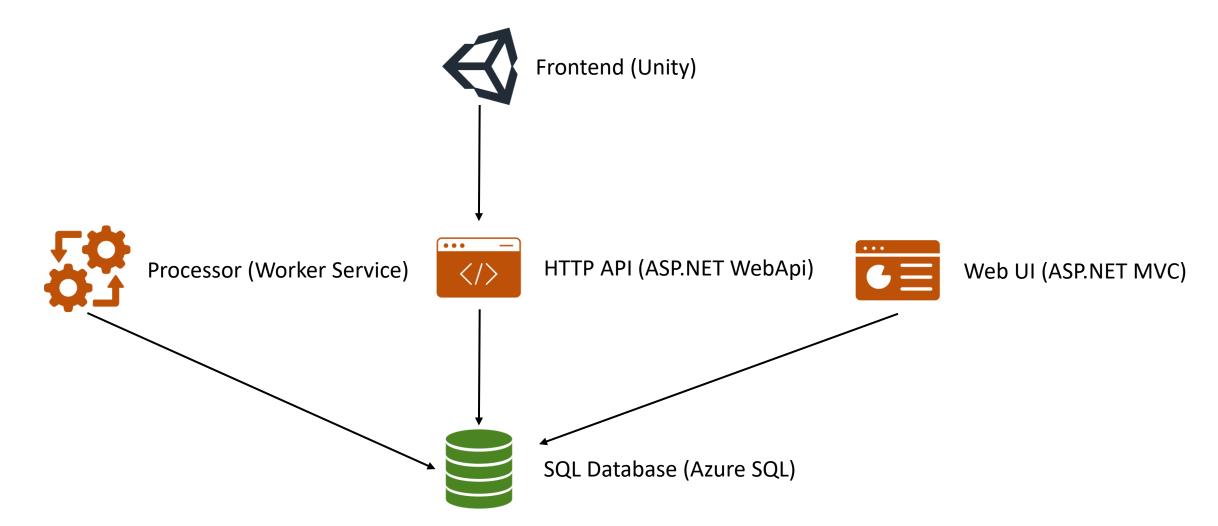
ScriptGrain

ValidationGrain

ValidationGrain

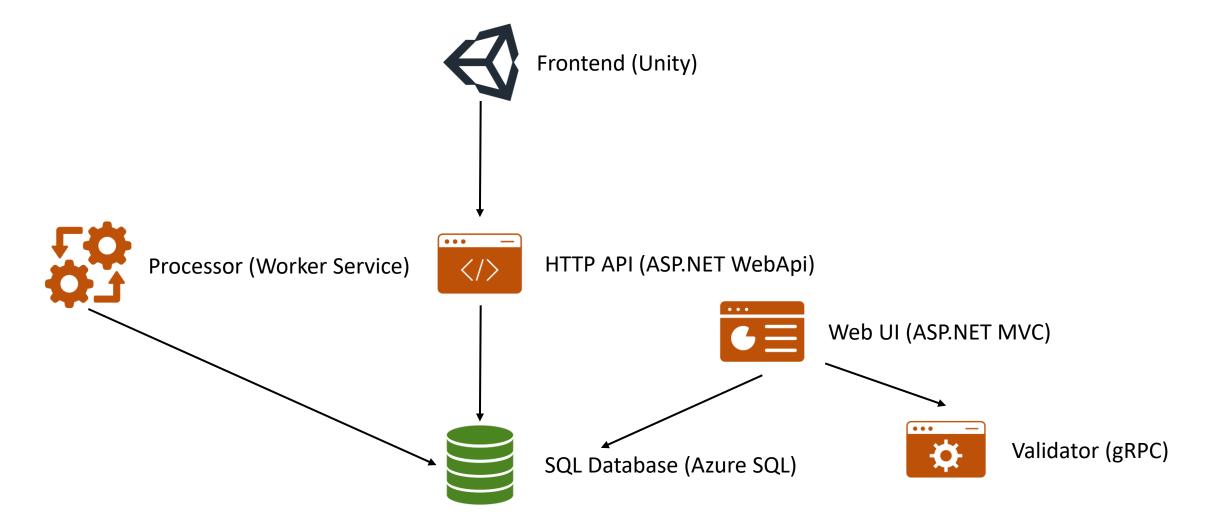


CSharpWars (first version)



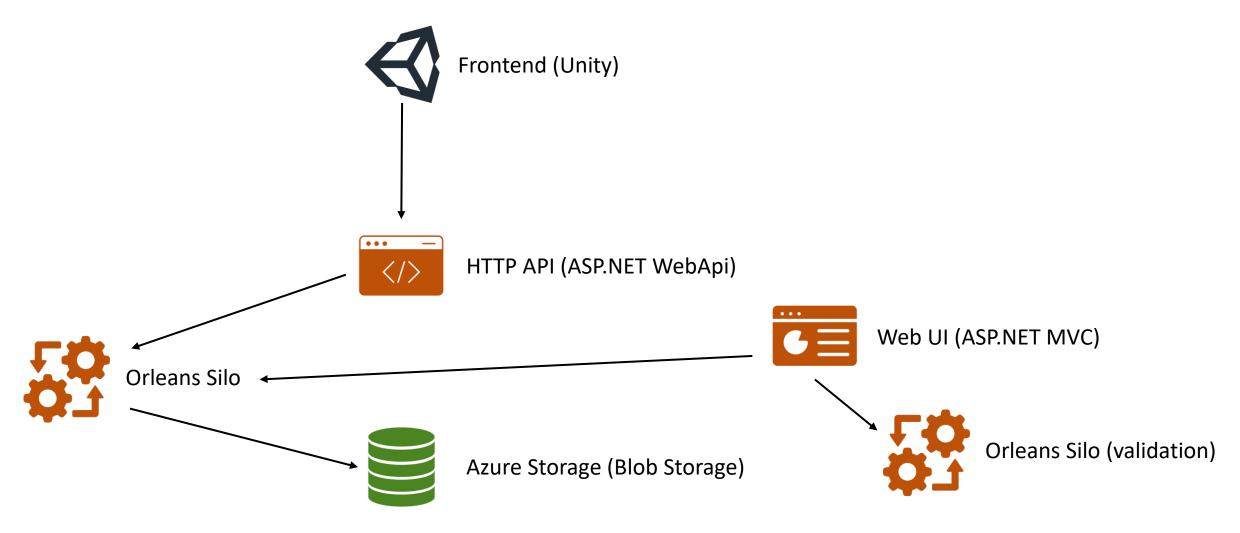


CSharpWars (second version)





CSharpWars (Orleans version)





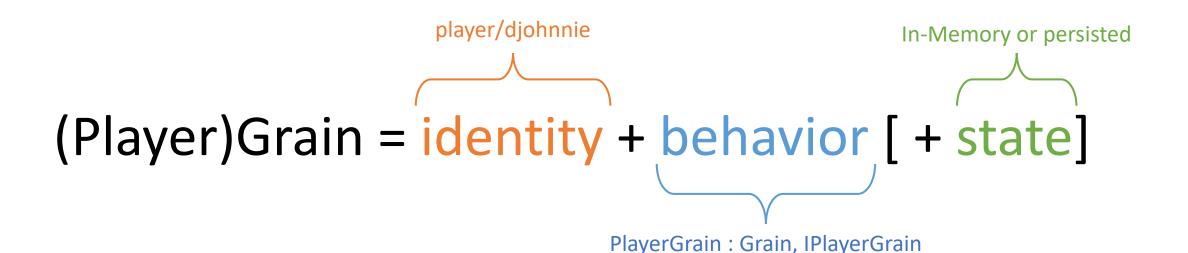
CSharpWars

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





Grains





Grains

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



Silos

PlayerGrain

ArenaGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

PlayerGrain

ArenaGrain

PlayerGrain

PlayerGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

BotGrain

ScriptGrain

ValidationGrain

ValidationGrain



Silos

- Hosting
- Clients
- Heterogeneous silos







https://github.com/Djohnnie/IntroductionToOrleans-ReFactor-2022

#refactorconf www.involved-it.be