Implementing Logging and Dependency Injection in Akka.NET

Introduction

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Course Prerequisites

- Akka.NET
  - Actors and messages
  - Supervision hierarchies
  - HOCON configuration
  - "Building Concurrent Applications with the Actor Model in Akka.NET" course
- Dependency Injection
  - DI via constructor parameters
  - DI library/framework (optional)
- Basic logging concepts (log levels, etc.)

Akka.NET NuGet Packages

Akka

Akka.Logger.*	Logging support
Akka.Persistence.*	Supports persistent actors
Akka.DI.*	DI support
Akka.Cluster	Clustering support
Akka.Remote	Support for remote actors

Logging NuGet Packages

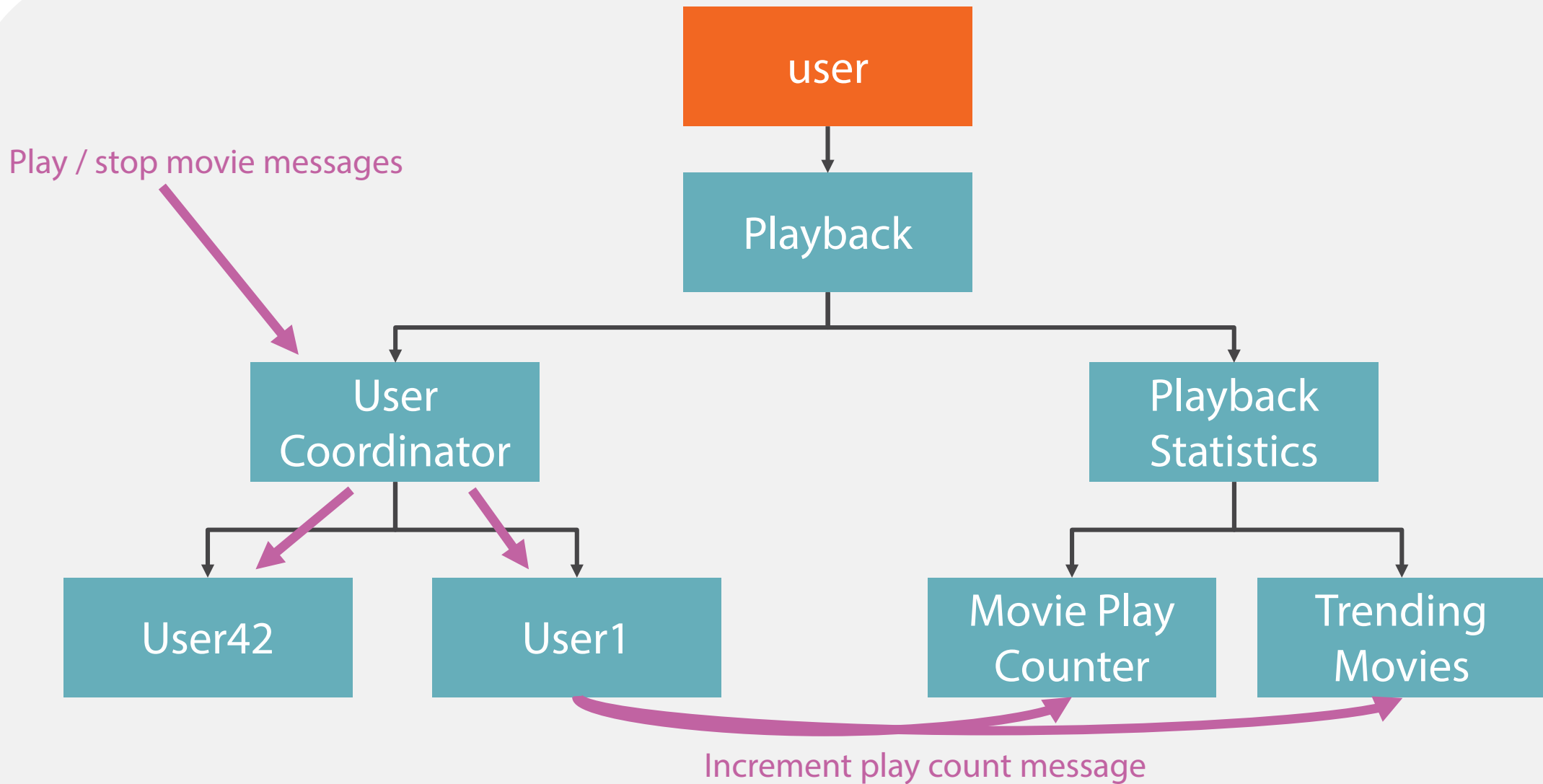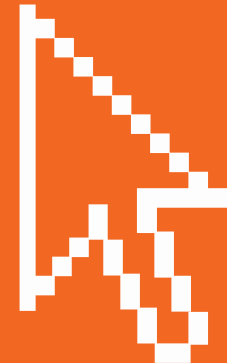|	
Akka	Basic built-in logging support to log to console
Akka.Logger.Serilog	Logging support to log output to Serilog sinks
Akka.Logger.NLog	Logging support to log to NLog targets
Akka.Logger.slf4net	Logging support to log to Simple Logging Facade for .NET (slf4net)

Dependency Injection NuGet Packages

Akka.DI.Core

Akka.DI.Unity

Akka.DI.Ninject

Akka.DI.StructureMap

Akka.DI.AutoFac

Akka.DI.CastleWindsor

user

Playback

Play / stop movie messages

User Coordinator

Playback Statistics

User42

User1

Movie Play Counter

Trending Movies

Increment play count message

MovieStreamingActorSystem

Demo Application with
No Dl or Logging

Summary

Production support

Long term maintainability and coupling

NuGet packages e.g. Akka.DI.AutoFac

Overview of the demo application

Next:
Implementing Logging