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**ARCHITECTS**  
INSIDE KNOWLEDGE

# Professional NgRx



# About Me...



## Rainer Hahnekamp



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<https://www.youtube.com/@RainerHahnekamp>



<https://www.youtube.com/@ng-news>



<https://github.com/softarc-consulting/sheriff>



Professional  
NgRx



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# Goal

Cover several areas  
of advanced NgRx use cases  
in enterprise-level applications

**Caution: Live Coding Ahead**



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# Housekeeping

- 9.00 - 16.30 (+ 30 minutes buffer)
- 15 minutes breaks in morning and afternoon session
- 1 hour lunch break from 12.00 - 13.00
- GitHub Repo
- Solution Branch



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# Agenda

1. Introduction & Fundamentals
2. Architecture
  - a. Modularity
  - b. Dependency Rules
  - c. Repository
  - d. StateModel vs. ViewModel
3. Best practices
  - a. Caching
  - b. Error Handling
  - c. Deferred Actions
  - d. Dependent Feature States
4. Testing
  - a. Unit Tests
  - b. Integration Tests
5. NgRx & friends
  - a. ngrx-immers
  - b. ngrx-store-localstorage
  - c. ngrx-wieder
  - d. Optimistic updates
6. NgRx on steroids & beyond
  - a. @ngrx/entity
  - b. @ngrx/data
7. Component Store
8. Signals & NgRx



# Exercise-intensive workshop

Theory (Slides) &  
Live Coding

Exercise Time  
~ 40 minutes

Discussion of the  
Solution



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# Engage!



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# Introduction Round

1. Who are you?
2. What do you do (in your job)?
3. What topic(s) are you interested in most?



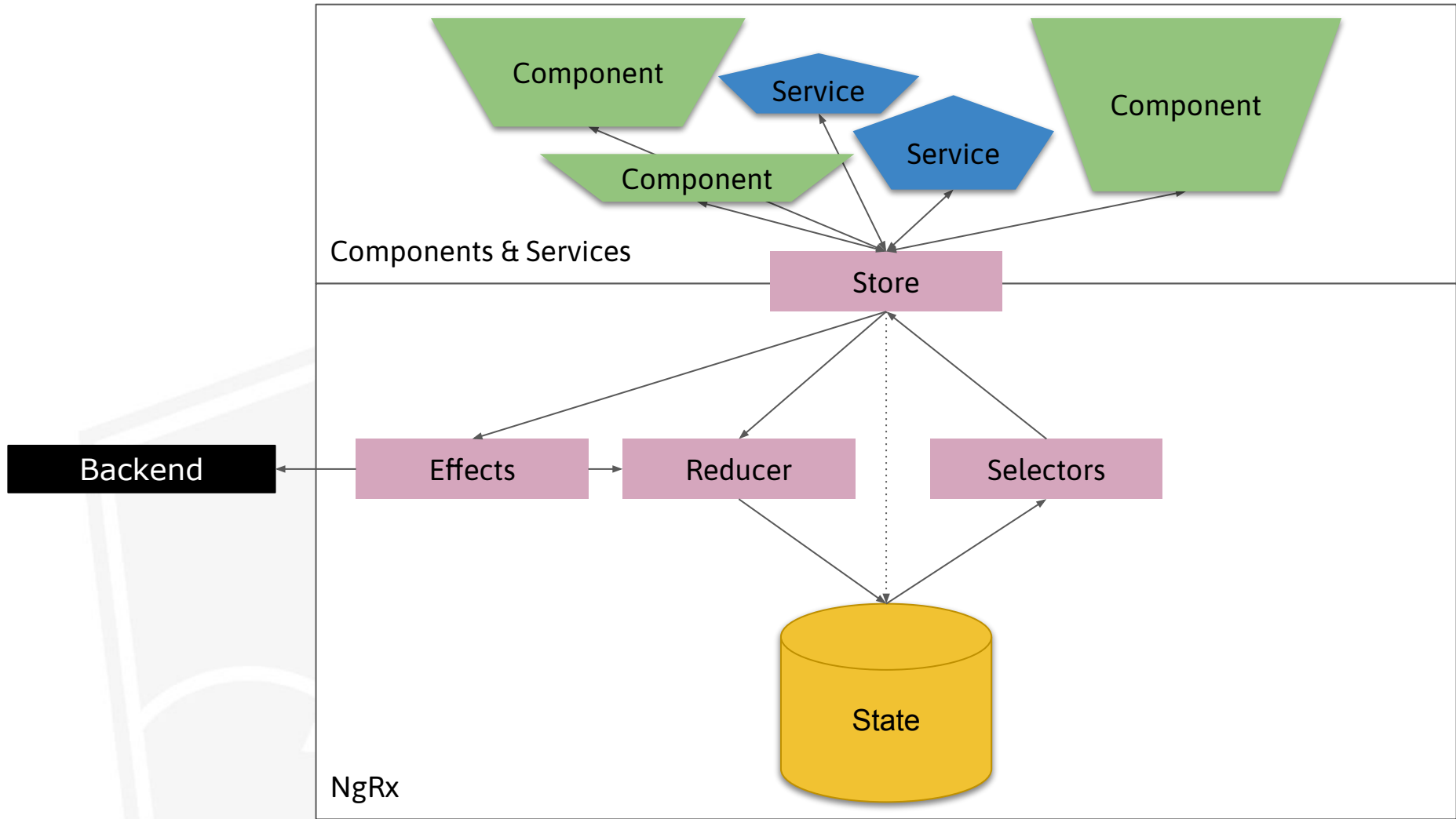
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# Fundamentals



# NgRx Family

Component  
Store

Store

Effects

Entity

Router Store

Data

Store Devtools

Schematics

ESLint Plugin

Component



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# SHARI: Why and When

- Shared: same state in multiple components
- Hydration: SSR with StateTransfer
- Availability: persist local state
- Retrieval: communication with API
- Impact: reacting to Events




# Why & When? (Personal Experience)

- Multiple components
- Splitting components into smaller pieces
- Persist local state
- Standardized way on how to do things
  - List of all possible actions
  - Files with clear scope
  - Conventions



# Application walkthrough

 Unforgettable Holidays


Sign InSign Up

HolidaysCustomersBookings


Choose among our Holidays

Vienna / Wien

Dive into the capital of the Habsburg empire




With a population of almost 2 million, Vienna is the second largest German-speaking city and breathes history in every


Get a Brochure

London

Explore one of the world's most famous cities




Being a tourist magnet, this city needs no further introduction.


Get a Brochure

Detroit

Top 10 of the cosmopolitan cities of the world




This US city is mainly known for the automobile industry. It hosts the GM's headquarters.


Get a Brochure

Reykjavik

The northernmost capital of the world and entry to Iceland




Iceland is a small island between Europe and America. It is best known for its nature and landscape which look almost alien.


Get a Brochure

Copenhagen / København

Europe's most livable city




Copenhagen is the capital of Denmark and is located on Seeland which is one of the three main Danish islands.


Get a Brochure

Shanghai / 上海市

East meets West



Although not being the capital of China, Shanghai is a good choice to for a China voyage. It can be reached very easily.

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