EVENT SOURCING WITH LAGOM

A FEW WORDS ABOUT





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The biggest problem with ORM's is that they don't really map O to R. Tables _are not_ objects. They never were; and never will be.

4:12 PM - 30 Sep 2013



























50 + 1 + 1 = 52

50 + 1 + 1 = 52

COMMANDS

FUENTS AGGREGATES

COMMANDS

EVENTS AGGREGATES

COMMANDS

ELENTS

AGGREGATES

CMD



CMD EVENT



CMD EVENT OLD → ■ +



```
food: [],
drinks: []
}
```

COMMANDS



```
food: [],
drinks: []
}
```

COMMANDS



```
{ addBurger }
```

```
food: [],
drinks: []
}
```

COMMANDS

EVENTS

```
{ addBurger }
```

{ burgerAdded }

```
{
  food: [burger],
  drinks: []
}
```

COMMANDS

EVENTS

```
{ addBurger }
```

{ burgerAdded }

{
 food: [burger],
 drinks: []
}

COMMANDS

EVENTS

```
{ addBeer }
{ addBurger }
```

r } { burgerAdded }

```
{
  food: [burger],
  drinks: []
}
```

COMMANDS

EVENTS

{
 food: [burger],
 drinks: [beer]
}

COMMANDS

EVENTS

```
{ addBeer }
{ addBurger }
```

{ beerAdded }
{ burgerAdded }

{
 food: [burger],
 drinks: [beer]
}

COMMANDS

EVENTS

```
{ addSalad }
```

}

{ addBeer }
{ addBurger }

{ beerAdded }
{ burgerAdded }

{
 food: [burger],
 drinks: [beer]
}

COMMANDS

EVENTS

```
{ addSalad }
{ addBeer }
{ addBurger }
{ burgerAdded }
```

food: [burger, salad],
drinks: [beer]

COMMANDS

EVENTS

```
{ addSalad }
{ addBeer }
{ addBurger }
{ burgerAdded }
```

```
food: [burger, salad],
drinks: [beer, water]
}
```

COMMANDS

```
EVENTS

{ waterAdded }
```

- { addWater }
 { addSalad }
- { addSalad }
- { addBeer }
- { addBurger }

{ saladAdded }

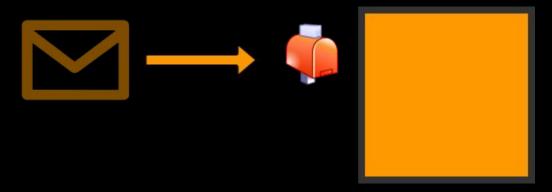
{ beerAdded }

{ burgerAdded }





AKKA





SPEED

AUDIT LOG

TIME TRAVEL CHANGE HISTORY

SPEED

AUDIT LOG

TIME TRAVEL CHANGE HISTORY

SPEED AUDIT LOG TIME TRAVEL CHANGE HISTORY

SPEED

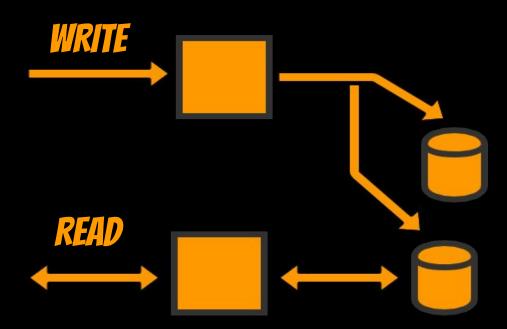
AUDIT LOG

THE TRAVEL CHANGE HISTORY

EVENT STORMING

READ?

Cars



EVENTUAL CONSISTENCY

... A NECESSARY EVIL

MICROSERVICES

SILVERBULLET!

ALTERNATIVES

Axon framework
Sebastian Daschner (youtube)
Eventuate
EventStore

Slides https://goo.gl/5HY7PV

code https://goo.gl/t8iUrc

- lagom lagomframework.com/
- Akka https://akka.io/
- reactive microsystems https://t.co/dm4wLJKV6f by Jonas Bonér
- develop reactive microservices https://www.lightbend.com/blog/developing-reactive-microservices-free
 -oreilly-mini-book-by-java-champion-markus-eisele
 by Markus Eisele
- Event Sourcing https://martinfowler.com/eaaDev/EventSourcing.html
 by Martin Fowler
- Sebastian Daschner EventSourcing and JavaEE tutorial https://www.youtube.com/watch?v=CYocFQvl6s08list=PLEV9ul4qfG0Z5gWIPMlFGMUpenSs1EvxZ
 - Axon framework http://www.axonframework.org/
- Eventuate http://eventuate.io/
- EventStore https://eventstore.org/

QUESTIONS?

survey https://goo.gl/5mpNCG