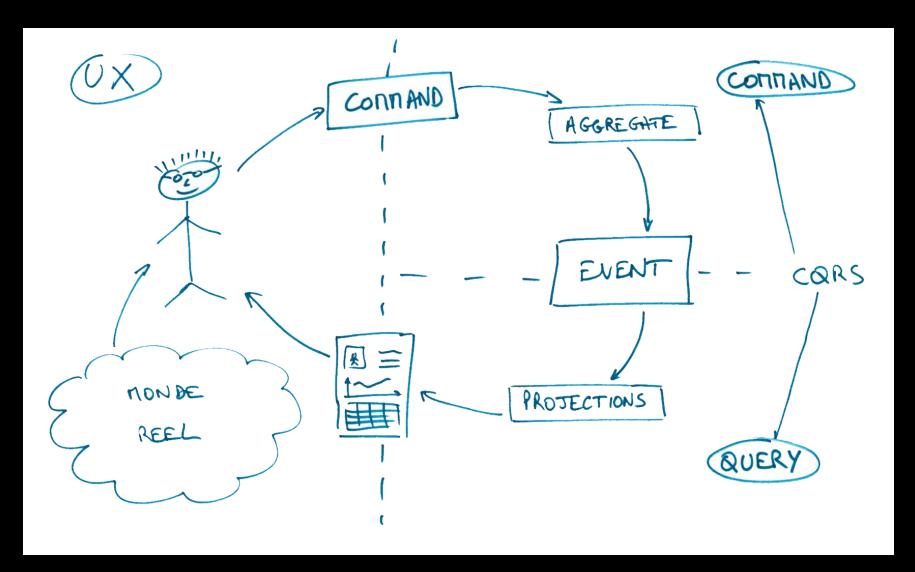
AGILITÉ PAR LE CODE GRÂCE À CQRS ET EVENTSOURCING

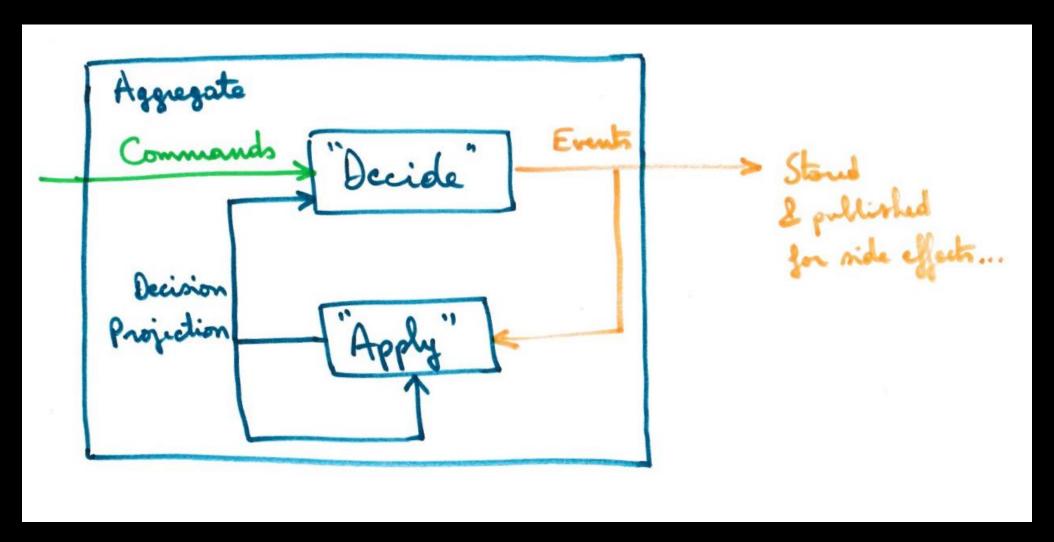
WORKSHOP - #MIXIT15

Forent @florentpellet Clément @clem_bouillier Jean @jeanhelou Emilien @ouarzy

CQRS CONCEPT

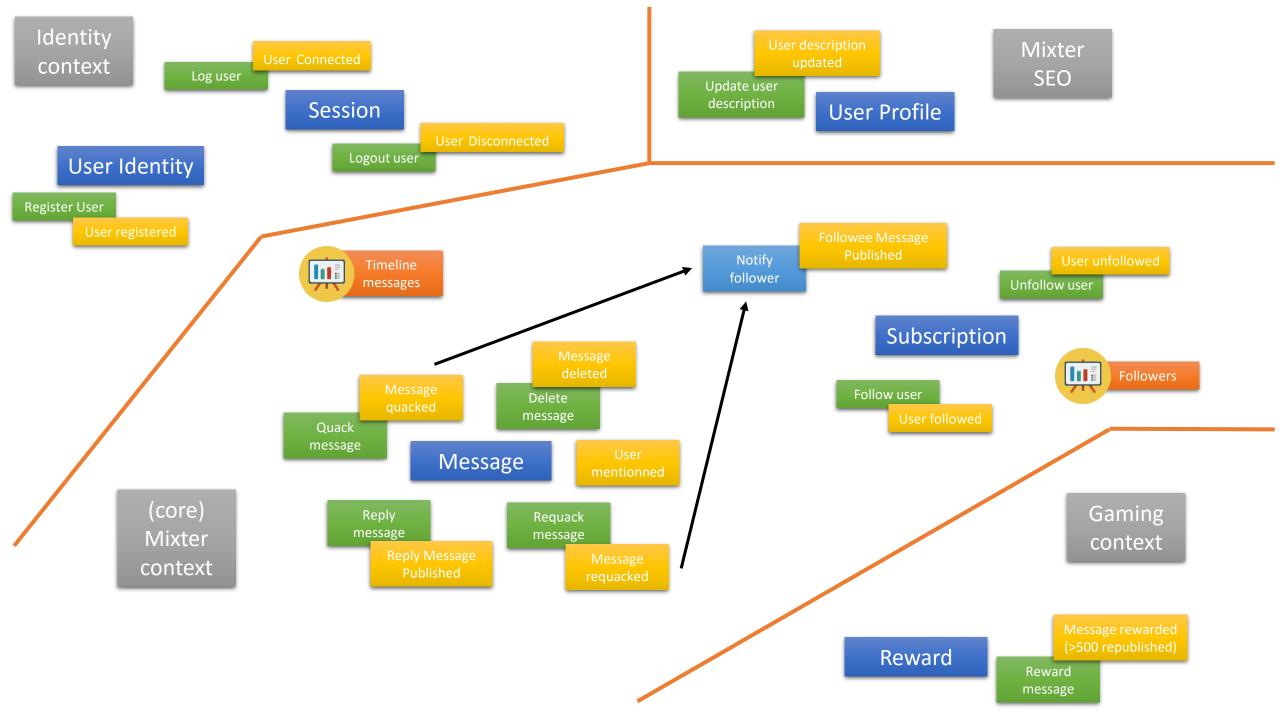


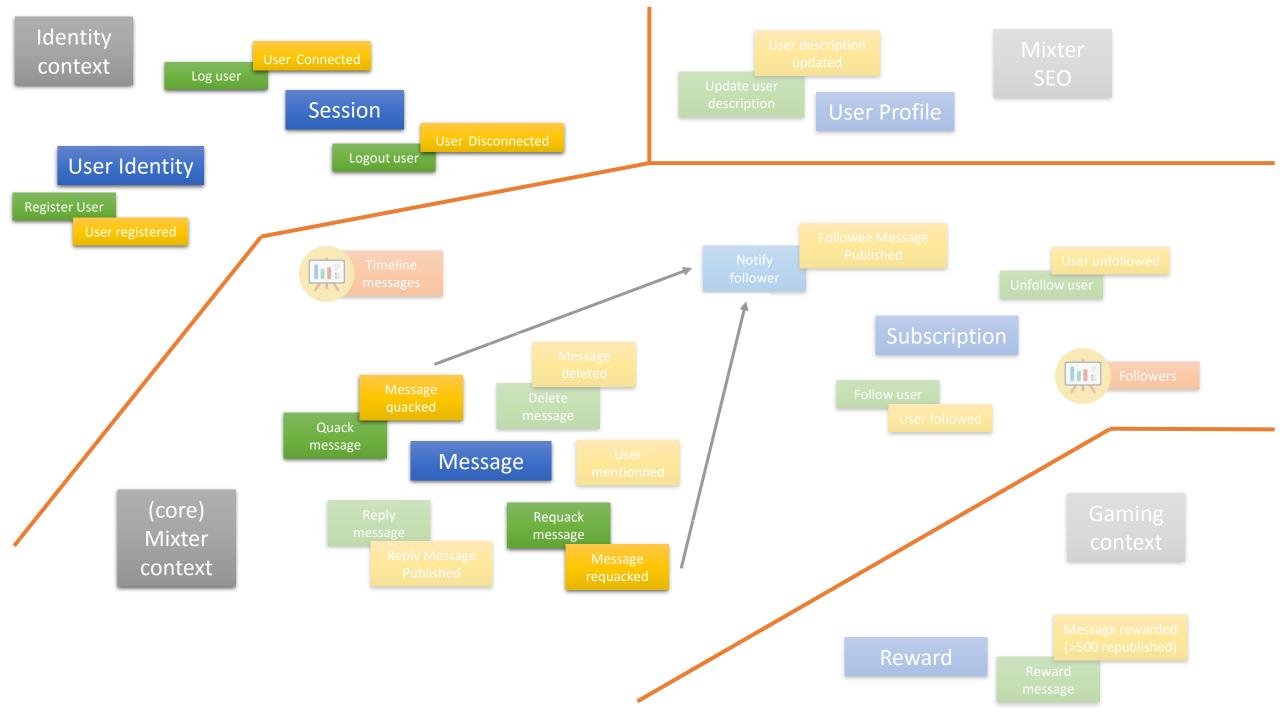
EVENT SOURCING CONCEPT



EVENT STORMING MIXTER







ONLY 1H30!

• IT'S SHORT!

- 4 FACILITATORS
 - ANY QUESTIONS => SIGNAL US



Clément



Emilien



Florent



Jean

TEST DRIVEN WORKSHOP

- WORKING IN PAIRS
- EXECUTE RUN SCRIPT AND READ INSTRUCTIONS

• RED TEST => GREEN TEST

- 3 STEPS (+2 BONUS)
 - COMMAND DELETEMESSAGE
 - QUERY TIMELINE MESSAGE
 - **E**vents in aggregate

REPOSITORY GIT

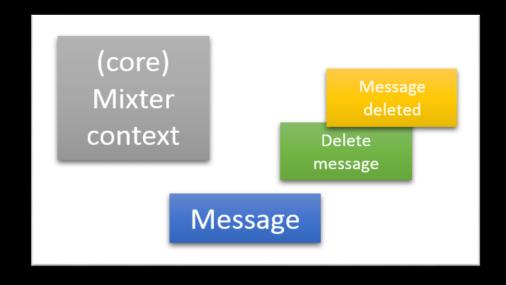
- GIT CLONE HTTPS://GITHUB.COM/JEANTIL/MIXTER.GIT
 - BRANCHES:
 - CSHARP-WORKSHOP (.NET 4.5.1, VS 2013)
 - JAVA-WORKSHOP (SDK8, MAVEN)
 - JS-WORKSHOP (NODE.JS)
 - PHP-WORKSHOP (5.5, COMPOSER)
- SLIDE: HTTPS://GITHUB.COM/JEANTIL/MIXTER/RAW/SLIDE/SLIDE.PDF

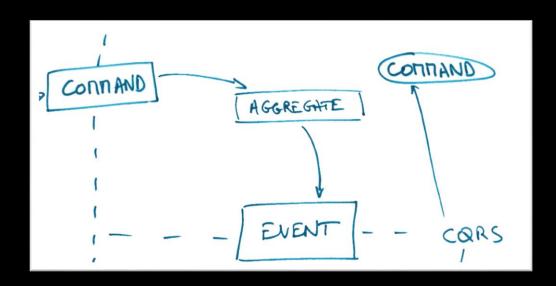
1. DELETE COMMAND

What we will learn

- PUBLISH EVENTS FROM AGGREGATE,
- USE PROJECTION FOR DECISION INSIDE AGGREGATE (CONTAINS ONLY "STATE" FOR FUTURE DECISION, DO NOT KEEP ALL STATE LIKE IN AN ENTITY)
- IMPLEMENT "BUSINESS RULES" THAT INSURE AGGREGATE CONSISTENCY (BASED ON DECISION PROJECTION AND COMMAND=METHOD PARAMETERS)

IN BRIEF: THE C OF CQRS



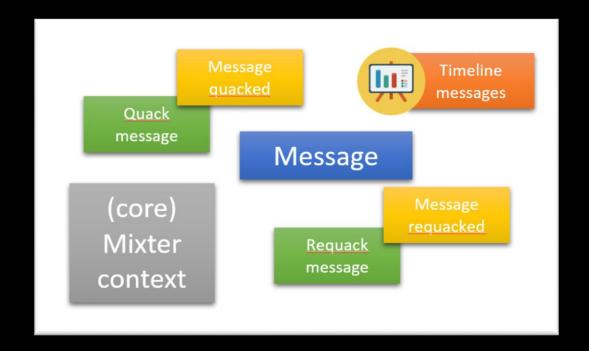


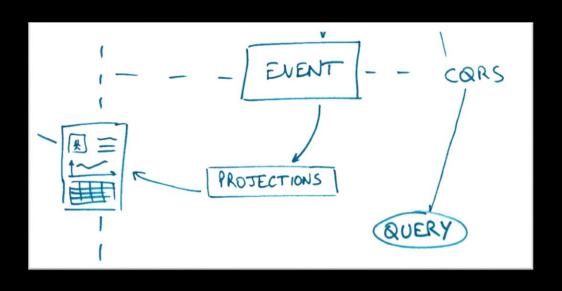
2. TIMELINE MESSAGES PROJECTION

WHAT WE WILL LEARN

- CREATE ANOTHER MODEL FOR QUERY (PROJECTION, TIMELINEMESSAGEPROJECTION)
- TRANSFORM EVENTS IN A PROJECTION MODEL THROUGH AN EVENTHANDLER
- A PROJECTION REPOSITORY (IN-MEMORY) WITH ITS INTERFACE IS GIVEN

IN BRIEF: Q OF CQRS



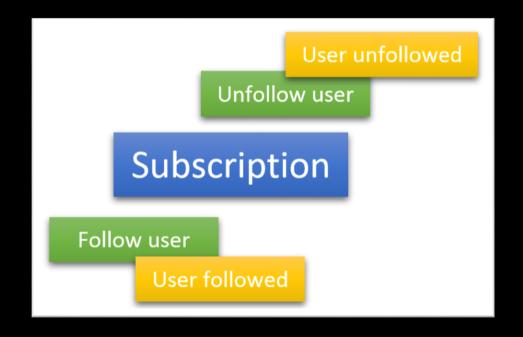


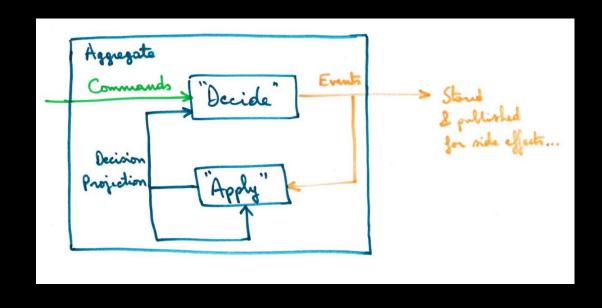
3. SUBSCRIPTION AGGREGATE

WHAT WE WILL LEARN

- CREATE A NEW AGGREGATE (SUBSCRIPTION)
- Raise events from it: UserFollowed and UserUnfollowed
- CREATE A DECISION PROJECTION FOR IT
- IMPLEMENT REPLAY OF EVENTS (EVENT SOURCED AGGREGATE)

IN BRIEF: C OF CQRS + EVENT SOURCING

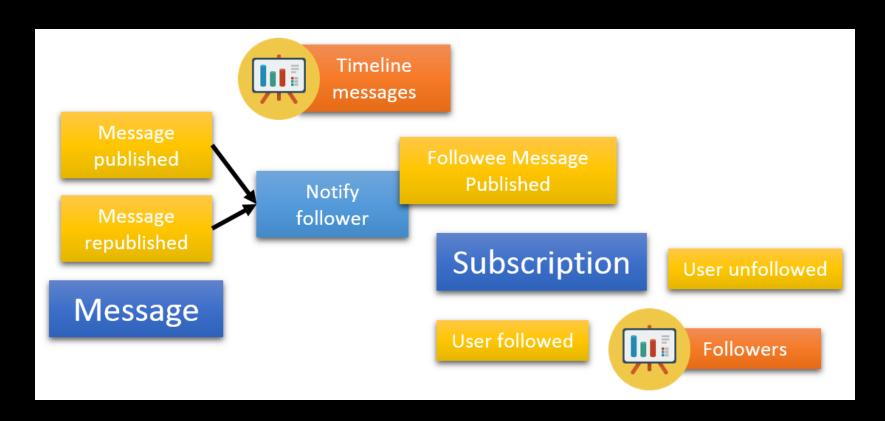




4. AGGREGATES INTERACTION

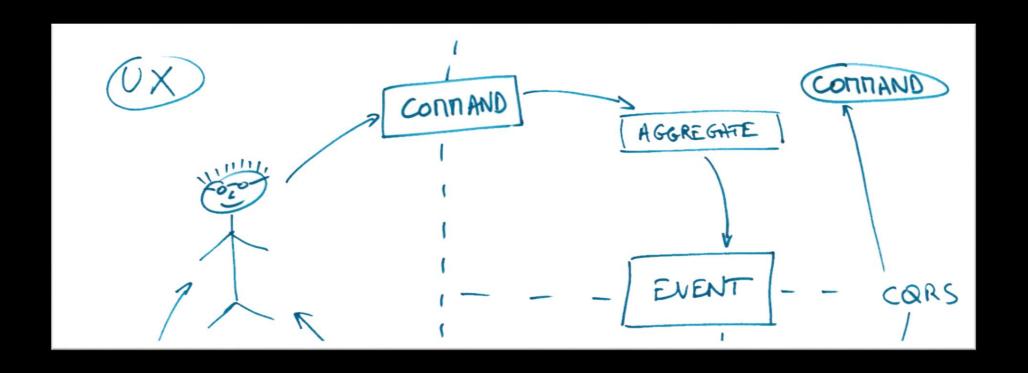
WHAT WE WILL LEARN

- COORDINATE SEVERAL AGGREGATES TO LIMIT COUPLING
- CONCEPT OF "EVENTUAL CONSISTENCY"



5. COMMAND HANDLER

Request Rest to execute delete Message Command, with session validity verification



AGILITÉ PAR LE CODE GRÂCE À CQRS ET EVENTSOURCING

THANKS!

Forent @florentpellet
Clément @clem_bouiller
Jean @jeanhelou
Emilien @ouarzy