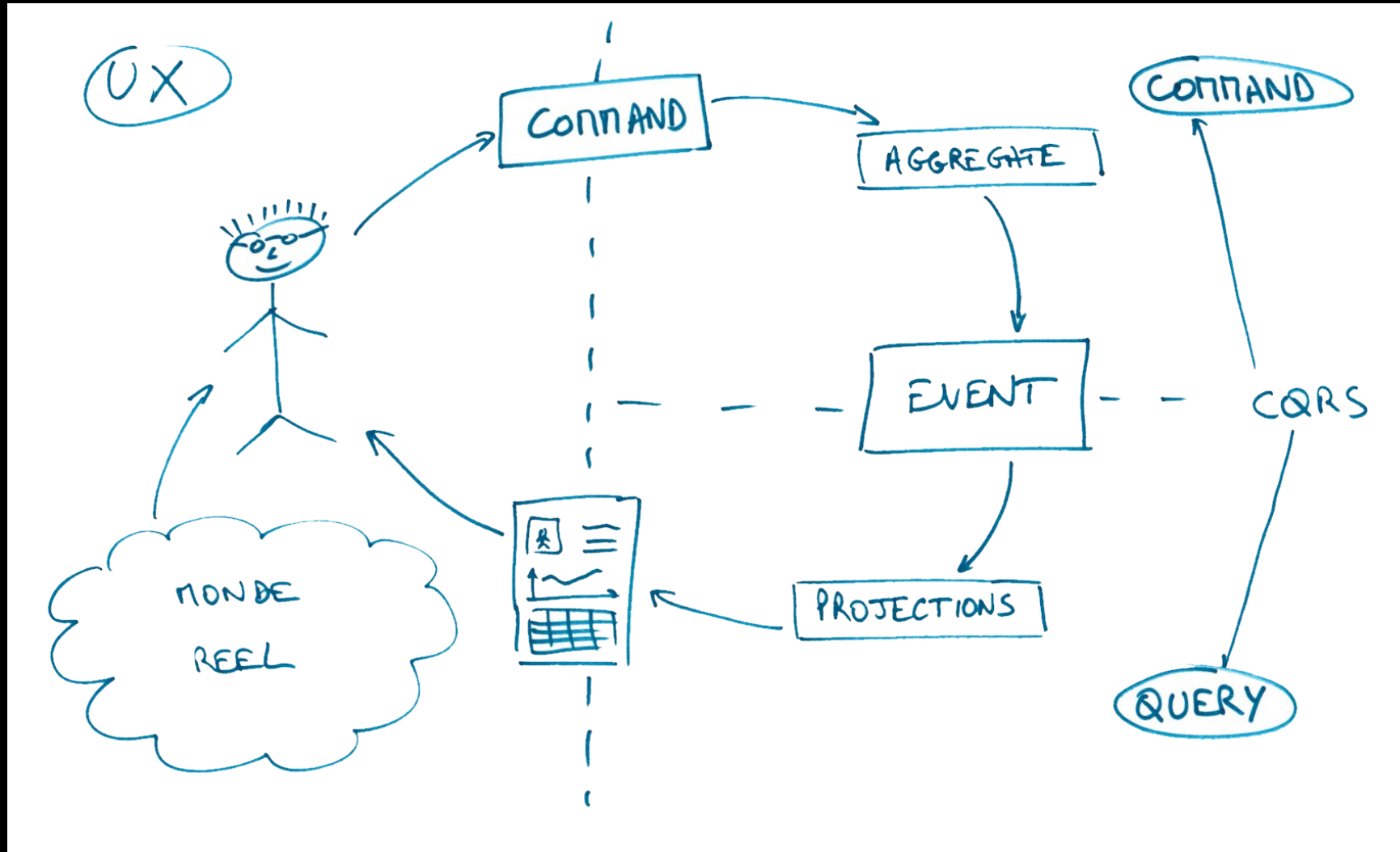


AGILITÉ PAR LE CODE GRÂCE À CQRS ET EVENTSOURCING

WORKSHOP — #MIXIT15

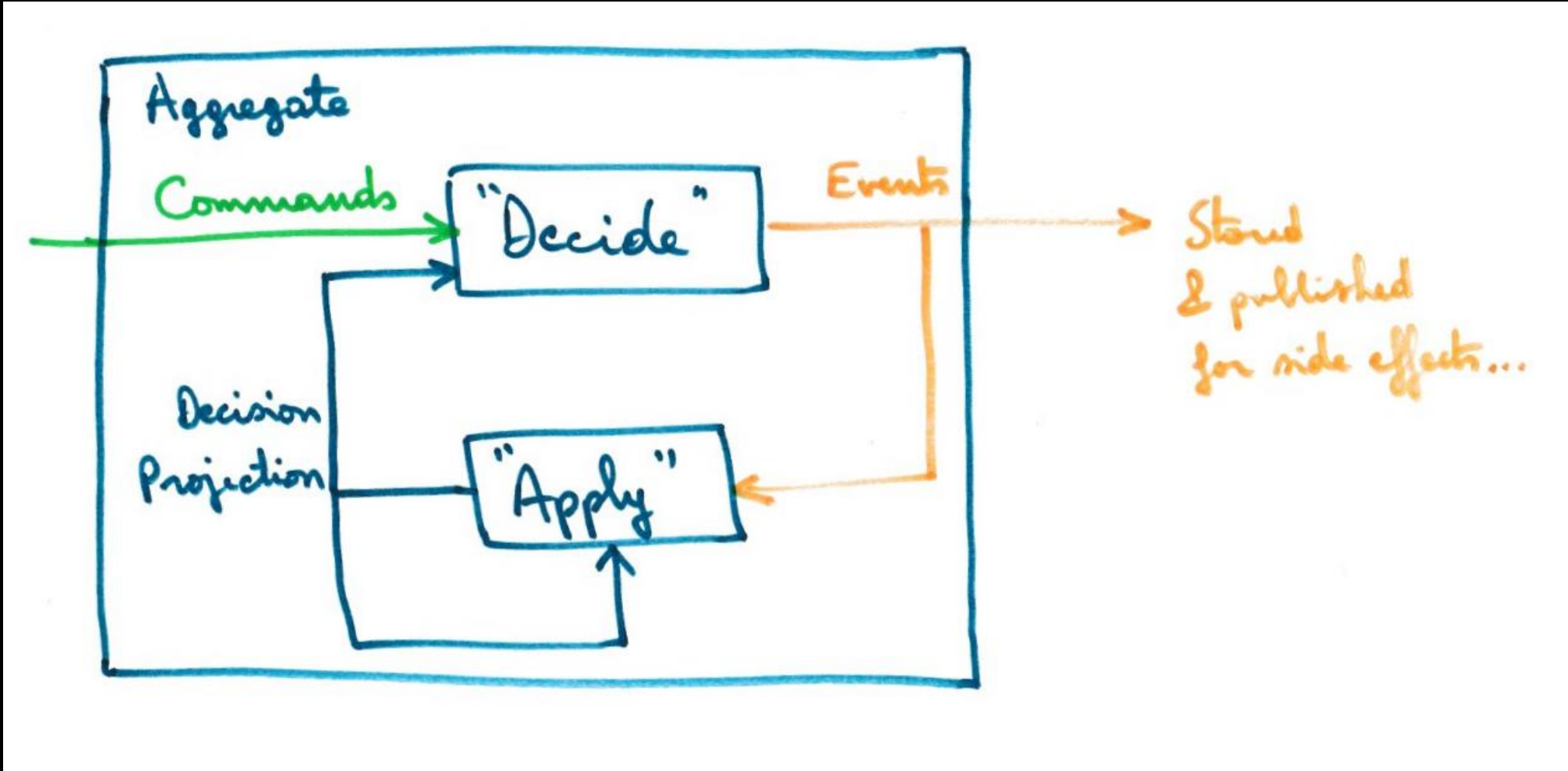
Forent @florentpellet
Clément @clem_bouillier
Jean @jeanhelou
Emilien @ouarzy

CQRS CONCEPT



Ref. "Conceptual CQRS" - Alberto Brandolini

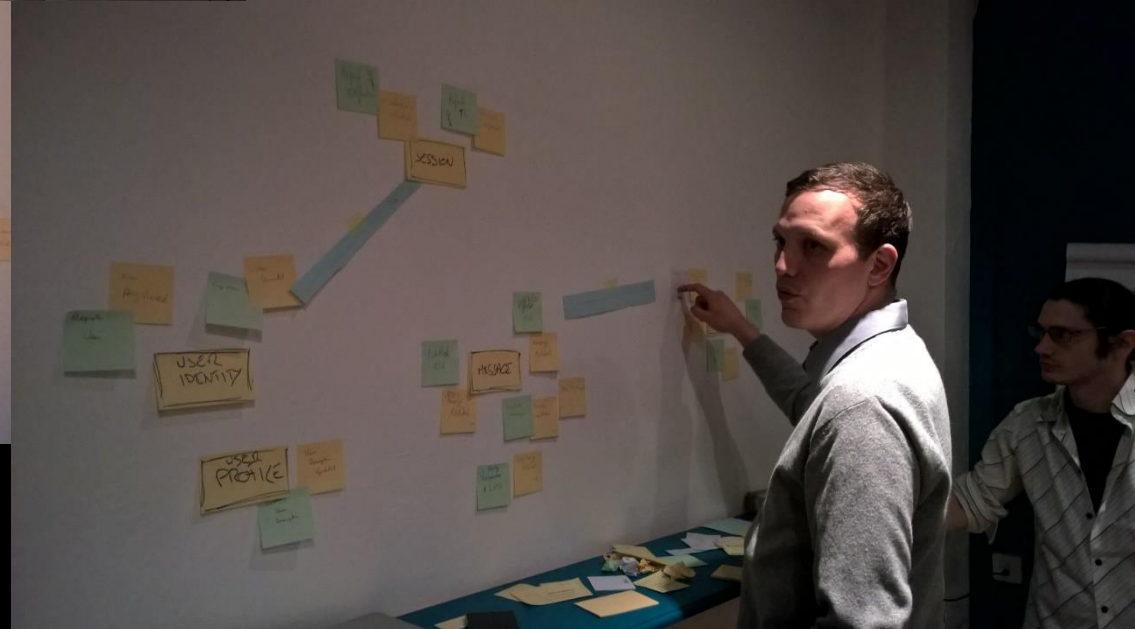
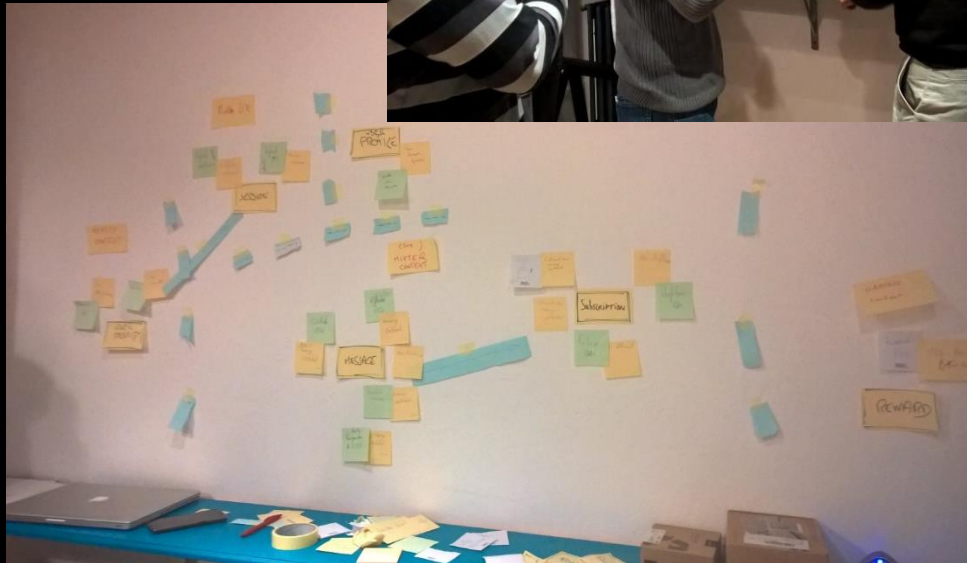
EVENT SOURCING CONCEPT



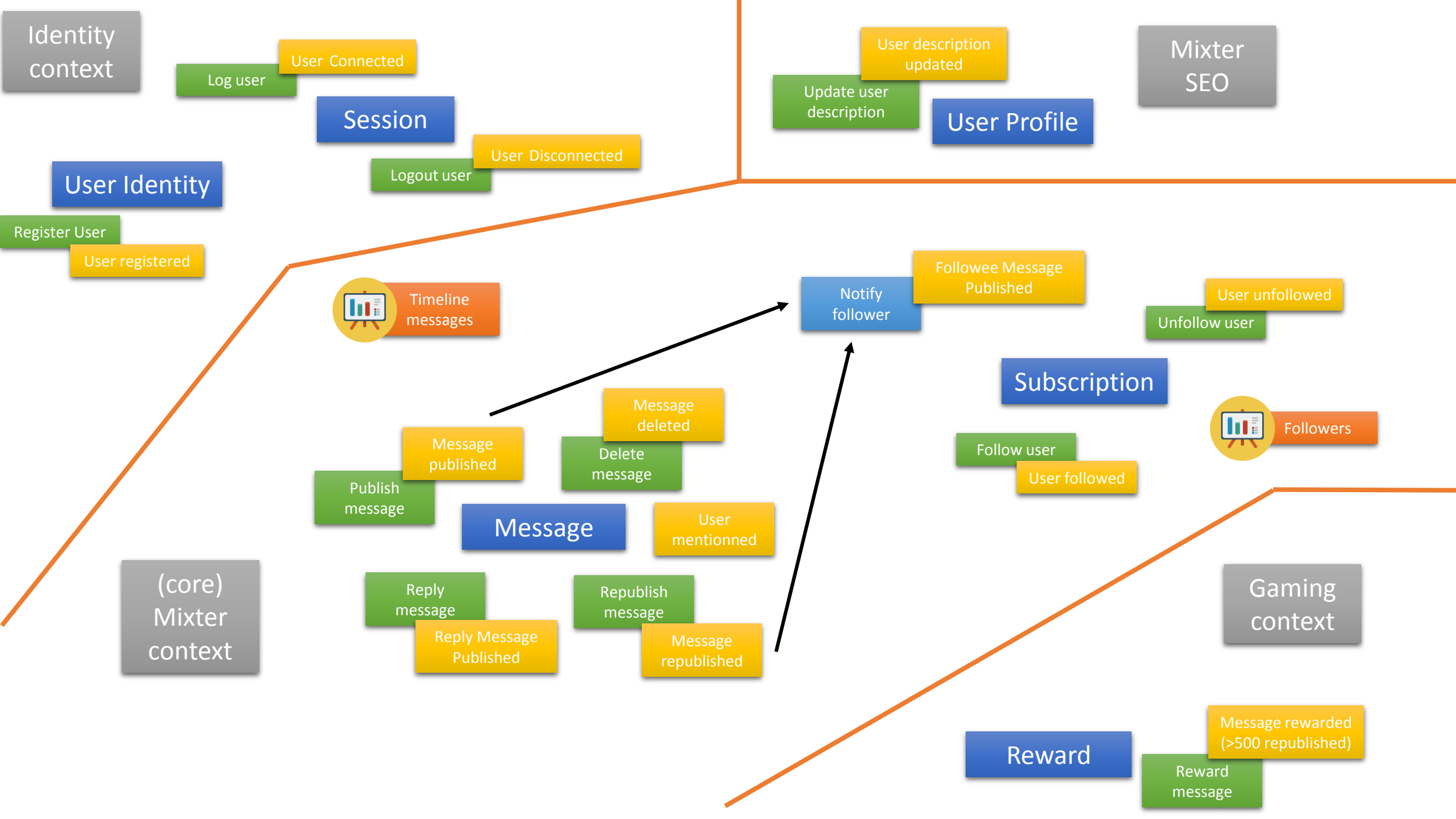
NB : DecisionProjection is also called State

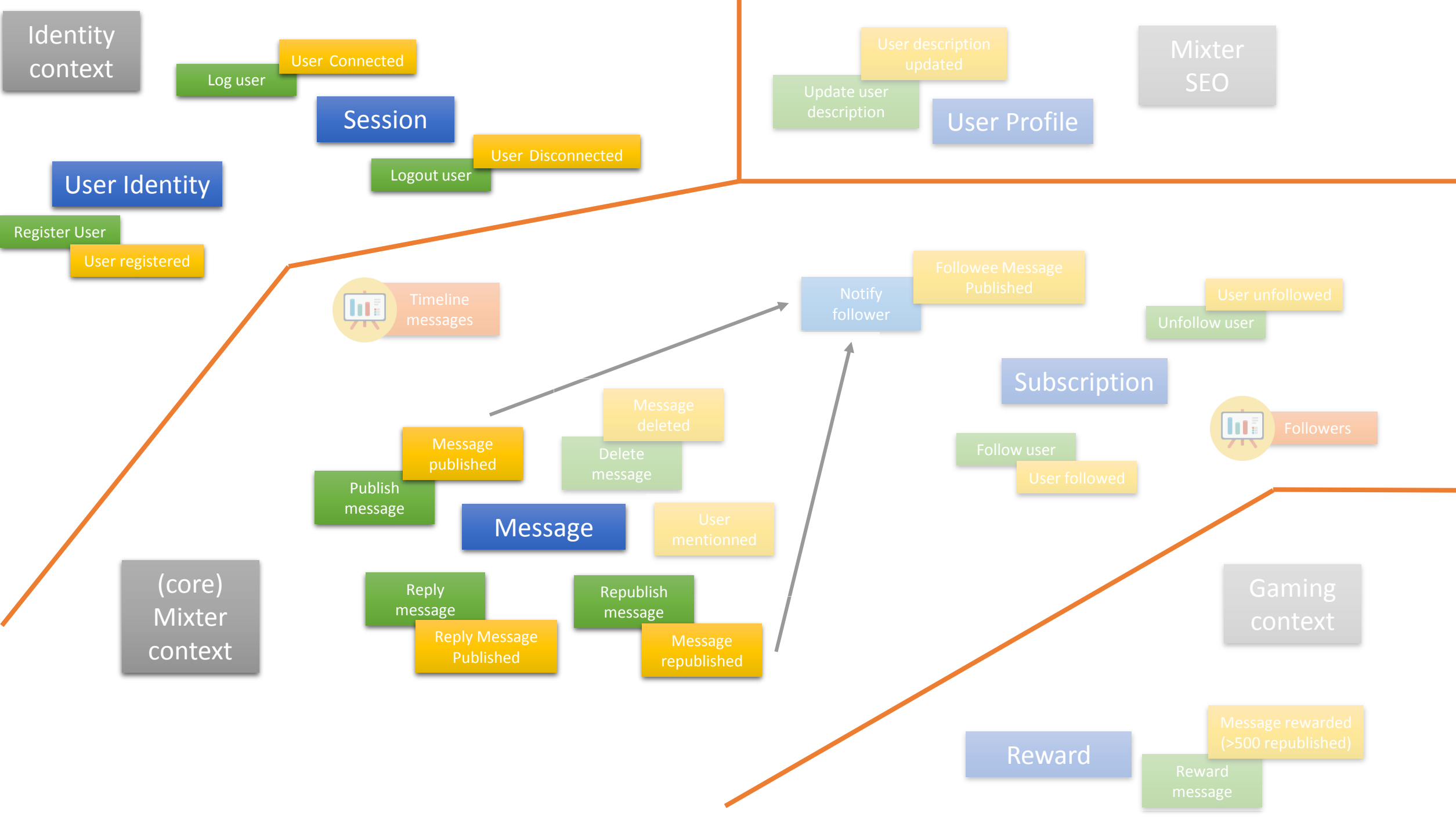
Ref. Jérémie Chassaing

EVENT STORMING MIXTER

The logo for mix-IT, featuring the word "mix" in blue and "IT" in white, with a stylized "x" that is half blue and half white.

Ref. "Event Storming" - Alberto Brandolini





ONLY 1H30!



- IT'S SHORT !
- 4 FACILITATORS
 - ANY QUESTIONS => SIGNAL US



Clément



Emilien



Florent



Jean

TEST DRIVEN WORKSHOP



- WORKING IN PAIRS
- RED TEST => GREEN TEST
 - 1 GIT TAG BY TEST (COMMIT IF GREEN)
=> GIT MERGE [LANGUAGE]-X.Y WHERE X AND Y ARE INCREMENTED TO FOLLOW WORKSHOP (COMMIT YOUR PREVIOUS SOLUTION BEFORE MERGE !)
 - NB : THIS IS BASED ON 2 BRANCHES :
 - ONE WITH TEST ONLY (ONE BY COMMIT WITH TAG)
 - ONE WITH OUR SOLUTION (ONLY IF YOU ARE LATE)
- 3 STEPS (+2 BONUS)
 - COMMAND DELETEMESSAGE
 - QUERY TIMELINE MESSAGE
 - EVENTS IN AGGREGATE

REPOSITORY GIT



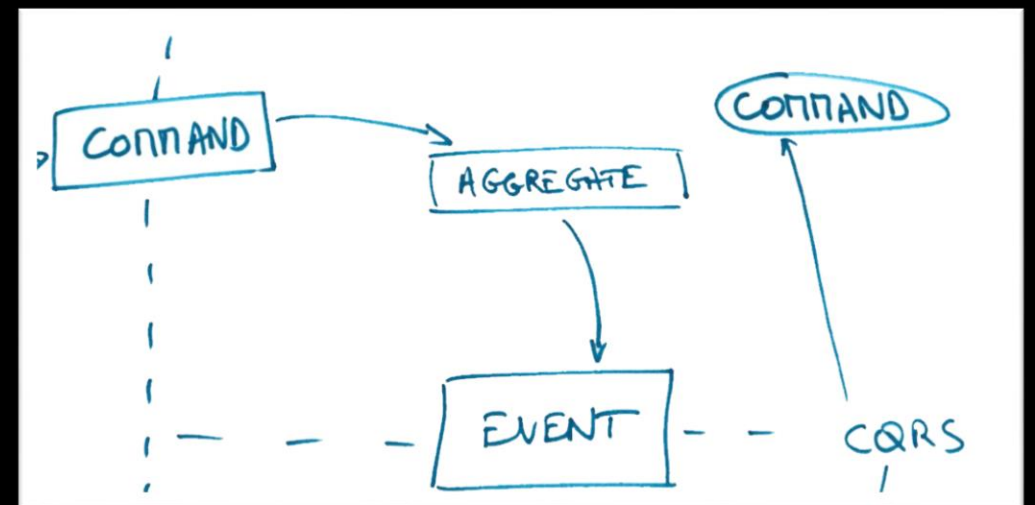
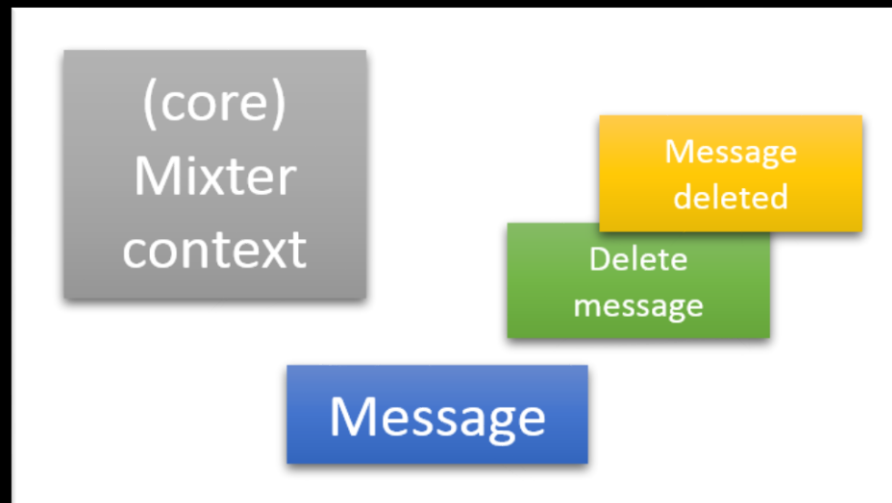
- GIT CLONE [HTTPS://GITHUB.COM/JEANTIL/MIXTER.GIT](https://github.com/jeantil/mixter.git)
 - BRANCHES:
 - CSHARP-WORKSHOP (.NET 4.5.1, VS 2013)
 - JAVA-WORKSHOP (SDK8, MAVEN)
 - JS-WORKSHOP (NODE.JS)
 - PHP-WORKSHOP (5.5, COMPOSER)
- SLIDE : [HTTPS://RAW.GITHUBUSERCONTENT.COM/JEANTIL/MIXTER/SLIDE/SLIDE.PDF](https://raw.githubusercontent.com/jeantil/mixter/slide/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



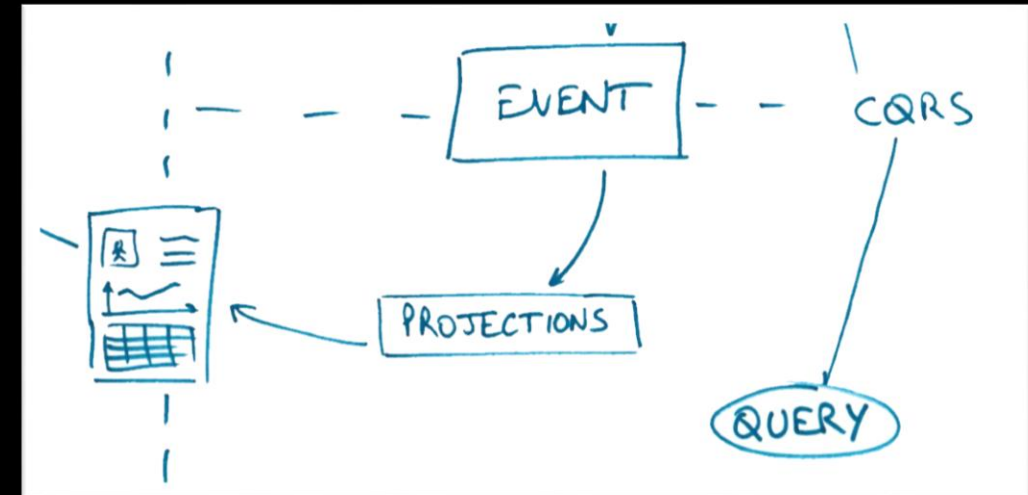
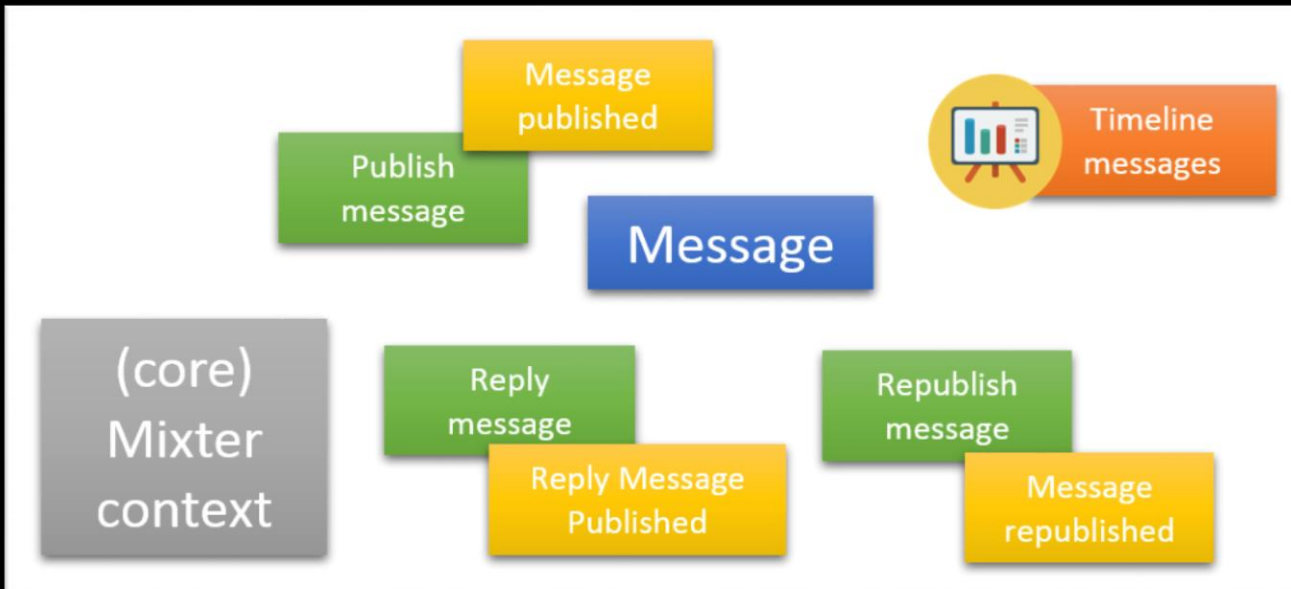
2. TIMELINE MESSAGES PROJECTION



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



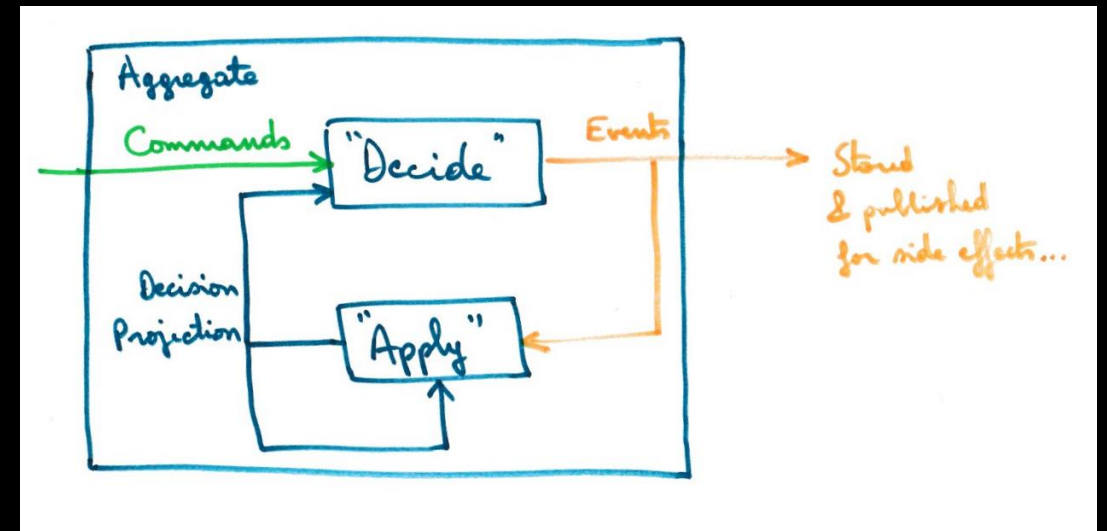
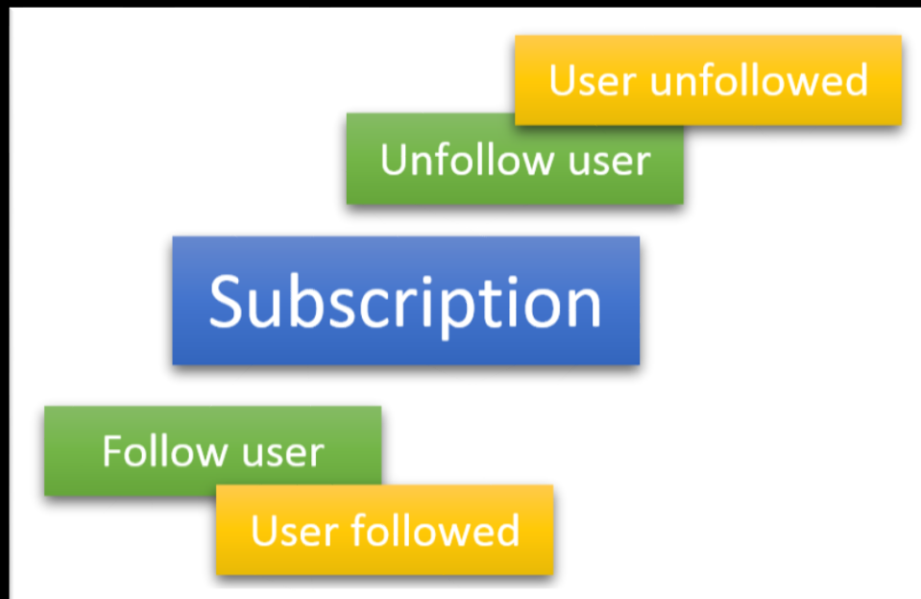
3. SUBSCRIPTION AGGREGATE



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)

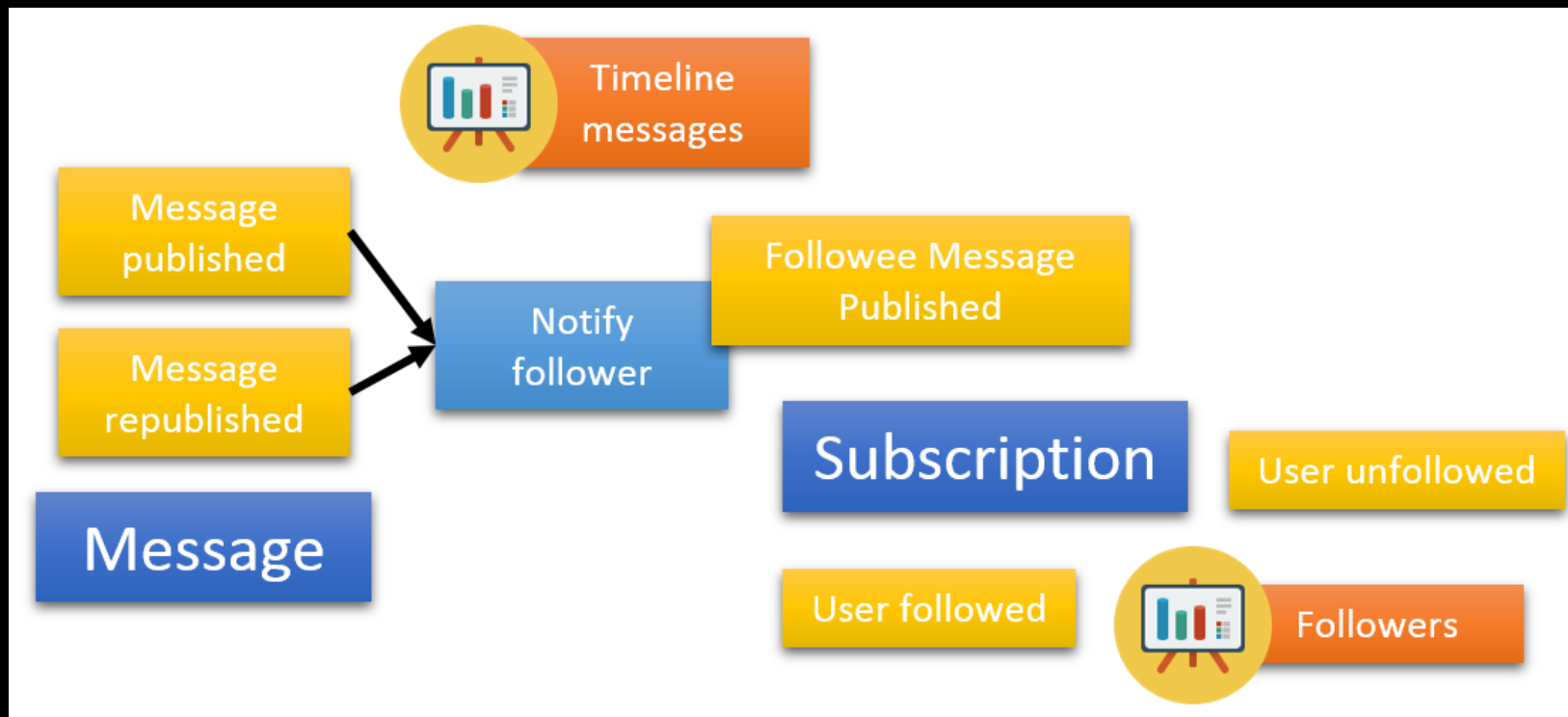
IN BRIEF : C OF CQRS + EVENT SOURCING



4. AGGREGATES INTERACTION

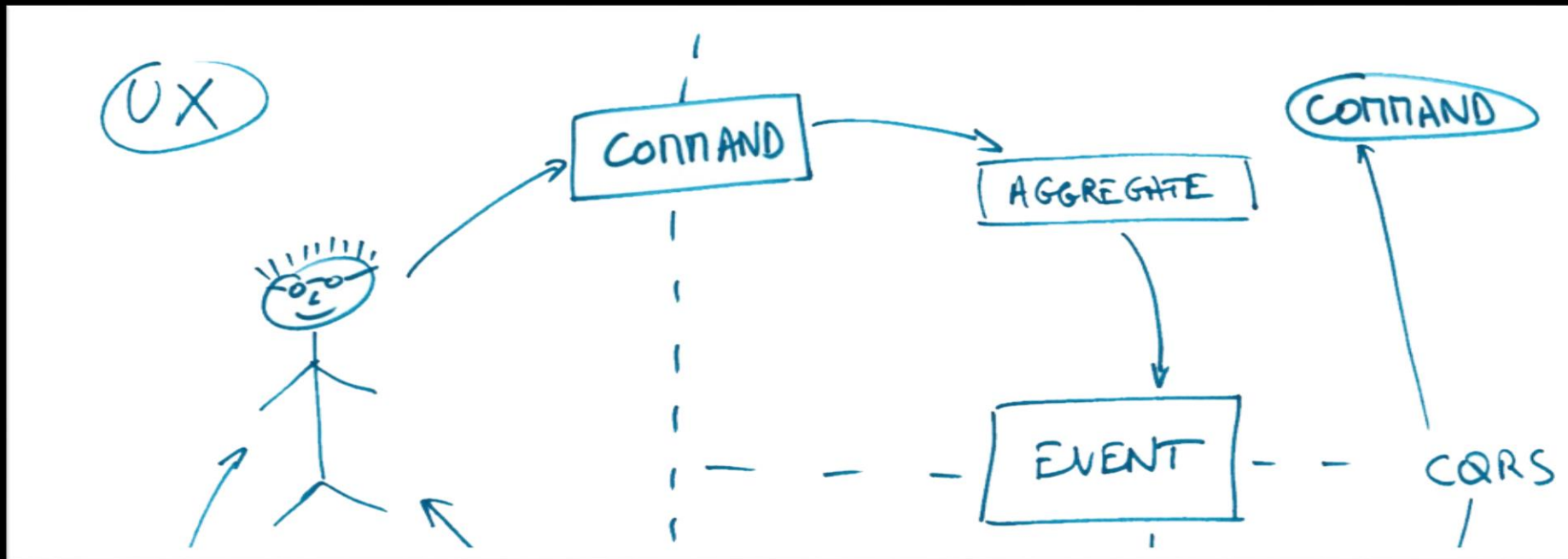
WHAT WE WILL LEARN

- 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