



RETROSPECTIVE

HOW CLEAN IS A 2+ YEAR OLD RELEASE UNIT

Tamás Günther, 25.05.2021

PARTNER-PARTNER KEY FACTS

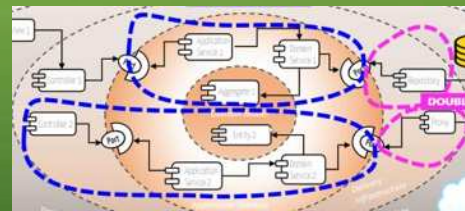
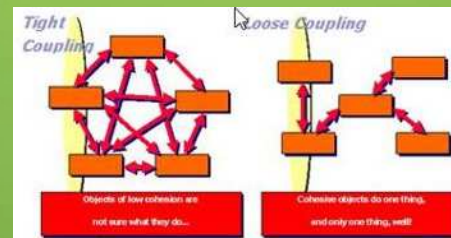
- Green-field project - no legacy code
- Built with Clean Architecture and DDD in mind
- First iteration: no mob
- Core domain functionality for 8-10 business aggregates
 - CRUD of timeline
 - event-notifications

MAIN FOCUS

- Object calisthenics
- Coupling/cohesion
- Connascences
- Test
- Onion architecture

Object Calisthenics rules

- Only one level of indentation per method
- Don't use the ELSE keyword
- Wrap primitives and strings
- First class collections (wrap all collections)
- Only one col per line ~~wrap every 40-50 chars~~ ~~wrap every 40-50 chars~~ ~~wrap every 40-50 chars~~
- No abstraction
- Keep all entities small
(10 lines per package, 50 lines per class, 50 lines per method, 2 arguments per method)
- No classes with more than two instance variables
- No public getters/setters/properties

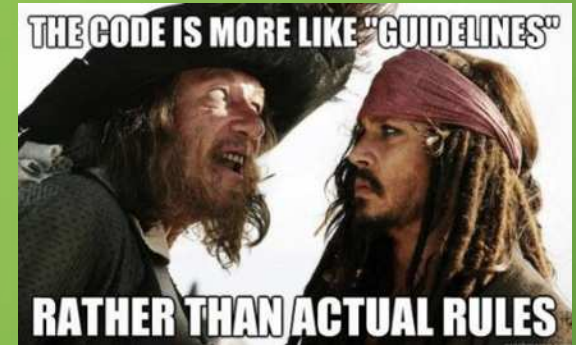


THE DIFFICULT ONES



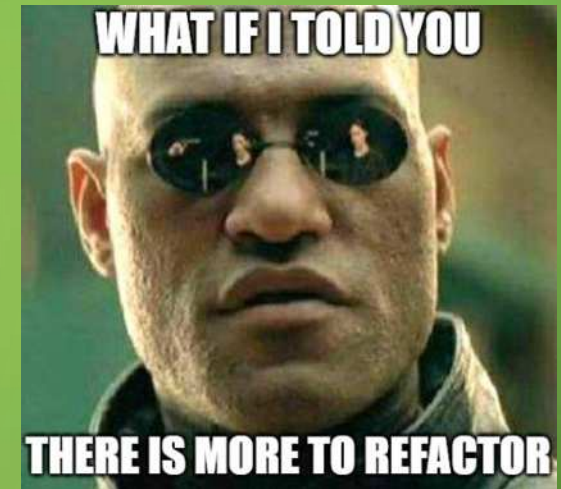
- Cohesion: timeline-functionality is not closed for all its operations
- Execution order - not enforced on timeline-builder
- Timing – related to JPA/JEE Transactions

THE PIRATE CODEX ONES



- Many dependencies – in a few classes
- Sometimes more than two (business) parameters

THE PROBABLY NOT PERCEIVED



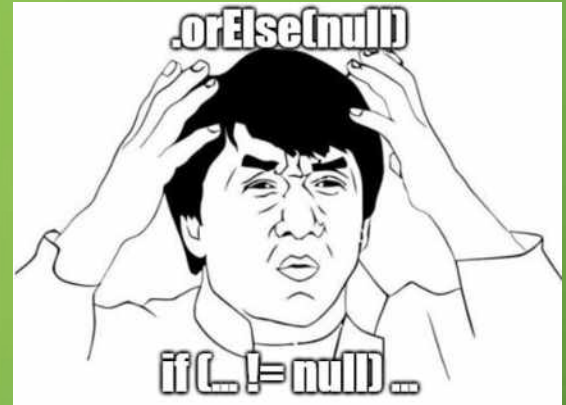
- Many params → some cross cutting issues are scattered overall
- Avoidable coupling → use composition
- Setters...

THE GOOD ONES

- Test Mocks/Fakes are used correctly
- Wrapping primitives: custom types everywhere
- Naming: sometimes long, but good
- Connascences of Meaning/Value
- And many others



BUT ALSO SOME WTFS...



- Using optionals sometimes: wtf?
- Unnecessary using / over-complicating of functional interfaces

CONCLUSIONS

- Object calisthenics → fulfilled, with few exceptions
- Coupling/cohesion → potential of improvement
- Connascence → 8 of 10 OK
- Test → only some naming issues
- Onion architecture → fulfilled



MY TAKEAWAYS – FOR ALL OF US



- Built in java features (optionals, streams): more practice needed
- Beyond lombok → Builder(-api)s help accomplish cohesion
- Big packages with loose coupled classes → some code-reorg needed
- Onion: struggle with extra DTOs between proxy and domain

MY TAKEAWAYS – THE NOT SO OBVIOUS

- simplest rules → complex ones
- Onion: often looks like a pass-through → deceptive!
- TDD vs. BDD
- Beyond BDD/acceptance Tests: do the tests give me high confidence?

My second attempt at making a salad... I don't know what I'm doing wrong



THE MANDATORY SLIDE – WITH BAD COHESION

Credits

- 9 (10) weeks with Marco & Alex
- `git...../partner-partner.git`
- [bdd-vs-tdd](#)

Thanx for your attention!

