Who needs tests anyway?

And: lets do scrum

some time ago…

> be me, fresh out of university

> starting at a big company as software developer

> never heard of TDD or SOLID

> Agile/Scrum? Is that some kind of Pokemon?

> pic unrelated
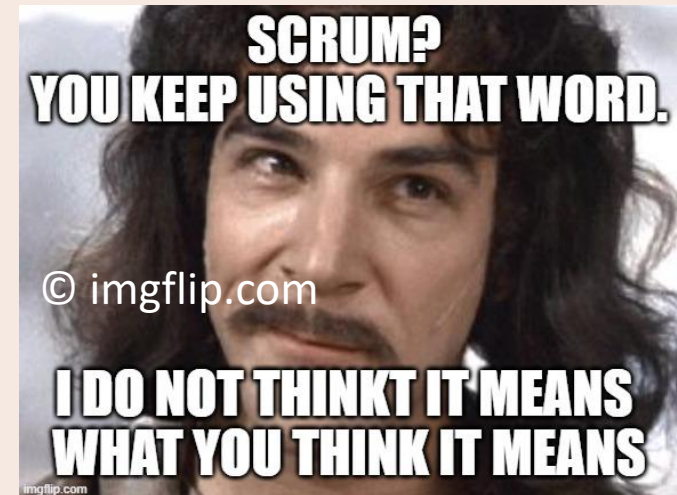
the team

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> team consists mostly of middle-aged men with technical background

> me, supposed to bring a breath of fresh air

> team recently started to use "scrum"

> scrum board contains rather long-time goals

> sprints – more like guidelines

SCRUM? YOU KEEP USING THAT WORD.
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I DO NOT THINKT IT MEANS WHAT YOU THINK IT MEANS
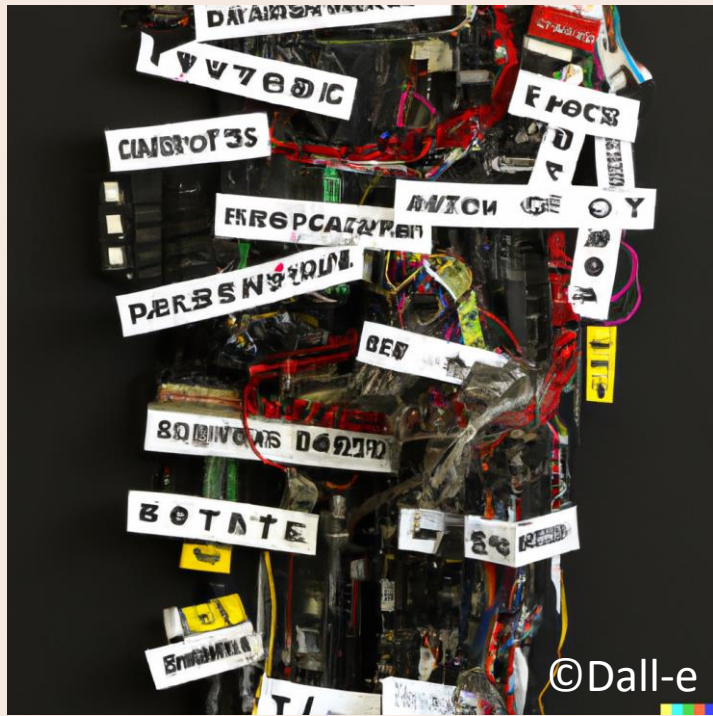
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the company

> rigid hierarchies and processes

> nothing screams agile

(in fairness, I did not know agile either)

> no written requirements (yet)
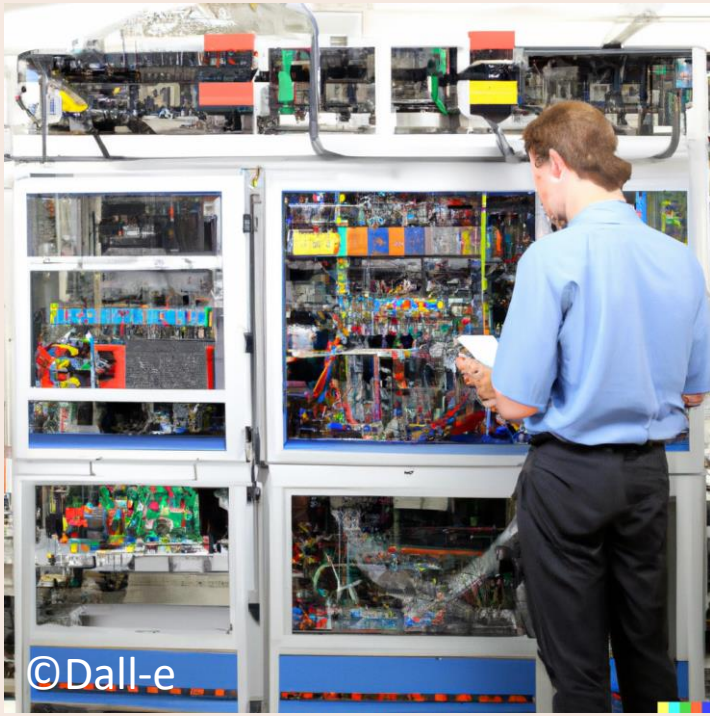
> bulky development environment with many custom tools

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the code base

> rigid hierarchies and processes

> big codebase, complex modules,

> safety and reliability critical system
=> trimmed down C

> no unit tests -> only integration tests on hardware

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the test procedure

> code build: 30 to 45 min

> flash software onto hardware

> manually setting input signals via calibration software

> measure and analyze output signals afterwards

> some time later:

Mom, can we have **UNIT TESTS**?

No. There is **UNIT TESTS** At Home

At home... **DIGITIZED INTEGRATION TESTS**

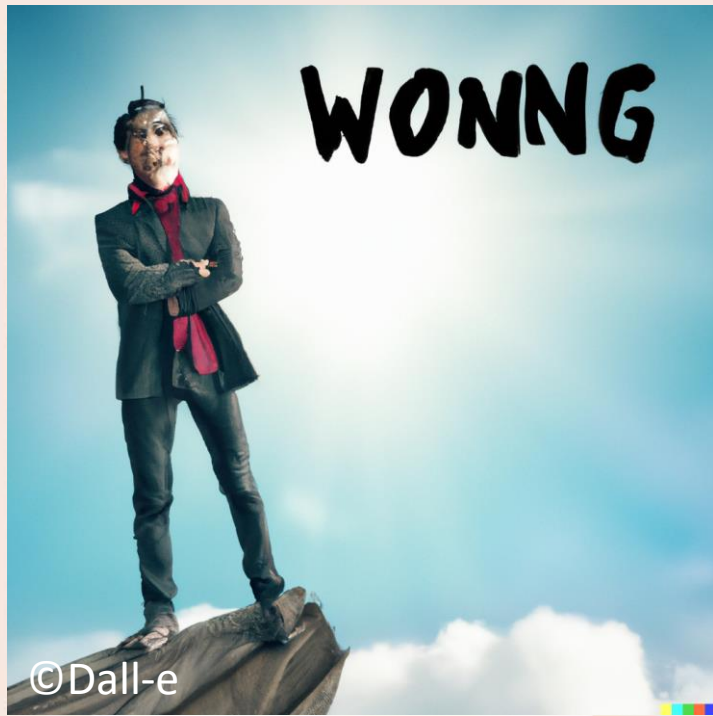imgflip.com

my task

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> combine multiple (big) functions into one

... based on a small sketch of a former developer

> refactor code and simplify configuration

> write requirements (derived from existing code)

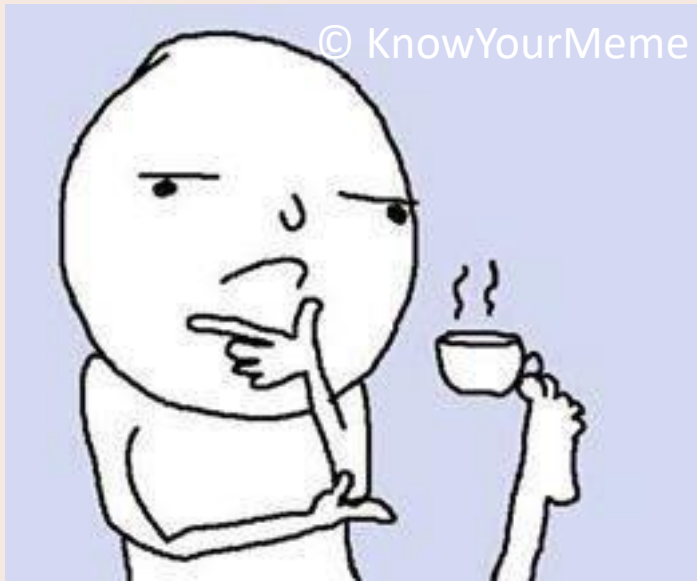> write tests for requirements

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SO …

> inexperienced developer

> complex codebase

> virtually no test suite
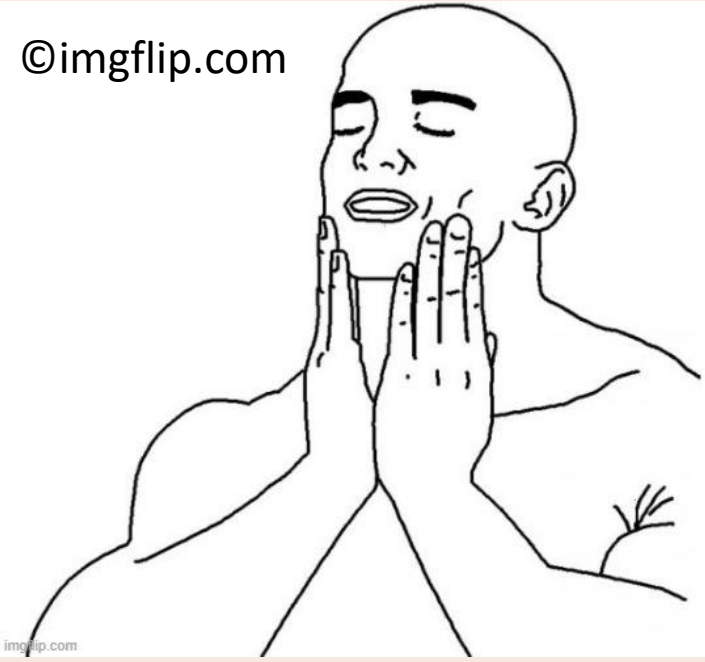
> no technical knowledge

> whatCanPossiblyGoWrong.jpeg

my journey

> try to understand existing features

> countless meetings

> write code, run build, test on hardware, waste time - repeat

> verify code not easy

> no strict deadline, no coding guideline, no requirements, no test strategy - mayhem

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the outcome

> "sprint" / "story" took ~1 year

> requirements and (acceptance) tests

> tests verified implementation

> I had a good time with my team-mates

> the code worked great, customers were very happy

feelsGood.png

conclusion

> agile practices were not required

... but certainly, would have helped

> developing without proper test-suite is hard

> having dailys and a story-board does not mean you are doing Scrum. It needs some effort and will.

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thank you for your attention

> questions?.bmp

> (my business card here).jpg