Open Source @ Work?
Tom Hombergs

- Father of two
- Software Engineer @ adesso
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- Open Source Contributor
Microservice Communication Patterns

A microservice architecture is all about communication. How should services communicate?

Reflectoring

Structuring and Testing Modules and Layers with Spring Boot

Well-behaved software consists of highly cohesive modules that are loosely coupled to other modules. Each module takes care from user input on the web layer down to writing into and reading from the database. This article presents a way to structure a Spring Boot application in vertical modules and horizontal layers and shows ways to test the verticals and layers with the testing features provided by Spring Boot.

Modularizing a Spring Boot Application

Every software project comes to a point where the code should be broken up into modules. These may be modules within a single code base or modules that each feature modules.

A Fully Automated Open Source Release Chain with Gradle and Travis CI

"Release early, release often". This philosophy should be a goal for every software project. Users can only give quality feedback when they have early access to a software release. And they can only give feedback to new features and fixes if they have access to the latest version. Releasing often is a major pain when the release process is not automated. This article is a guide to a fully automated release chain that is able to publish snapshots and releases from a Github repository using Gradle, Bitray and Travis CI.
use Open Source

contribute to Open Source

contribute while being paid

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@TomHouwhorst
stress level

- Commute to work ↓
- Pressure from stakeholders to finish a story ↓
- A meeting we have no time for ↑
- Another meeting we'd like to skip to finish the story ↓
- Time for OSS activities

8 AM  10 AM  12 PM  2 PM  4 PM
Office Worker at Daytime

OSS Superhero at Nighttime
Why would I sacrifice my free time for open source work?
We like to show off!

The job description I'd like to have on my business card:

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The favorite projects I've worked on:

- adessoAG/wicked-charts
- adessoAG/budgeteer
- code-examples
- docx-stamped
- reflectoring/coderadar

My project has more than 50 stars!

Look at how busy I am!

@TomHombergs
We like to get noticed for the right reasons.
We like to take our time

- Project starts
- Work thrown away because of re-prioritization of requirements
- No say in technology choice
- Code quality suffered because of deadline
- Missed the deadline
- Maintenance

@TomHouwers
We like to take our time

- Project starts
- First user!
- Someone wrote about it!
- Major refactoring
- No one has noticed our project
- 50 stars on GitHub

personal motivation in an open source project

@TomHouwers
We have no capacity for OSS work.

Another meeting we'd like to skip to finish the story.

Time for OSS activities.

Pressure from stakeholders to finish a story.

Commute to work.

A meeting we have no time for.

Commute from work.

Stress level.

8am  10am  12pm  2pm  4pm
I'd like to do Open Source for personal benefits!

WTF2?
Why should my Boss be interested in paying me for Open Source work?
Companies like to show off

We have a lot of cool people

we've been busy!

other people think we're cool, too

this is what we do
Companies want to recruit cool people!
Companies like Synergies

Project 1
- Spring Cloud
- Monitoring
- Angular
- Self-contained systems

Project 2
- Microservices
- JEE
- JSF
- EJB
- Monolith

Project 3
- Spring Cloud
- Angular
- Monitoring

@Tom Howserg
The curse of closed-source

new shared lib started within a project

activity

project is over

a manager remembered the shared lib

it's out-of-date

@Tom Howsergs
The Blessing of Open Source

Personal motivation

= activity

Project starts

First user!

Someone wrote about it!

↑

No one has noticed our project

↑ major refactoring

Go stars on Github
Visibility = Activity
What are my chances of doing open source?
The Cost of a Bug

Cost of Delay

- Dev in Team 2 has created a workaround
- Dev in Team 1 has created a workaround

Everybody just lives with it

@TomHowsergs
The Cost of a Bug

Cost of Delay

Bugfix has been applied by all teams

Bug has been fixed
The Cost of a missing Feature

Cost of Delay

Dev in Team 2 has created a workaround

Everybody just lives with it

Dev in Team 1 has created a workaround

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@TomHousberg
The Cost of a missing Feature

Cost of Delay

- Feature has been implemented
- Blog post about new feature has been published
- Feature has been applied by all teams
- A talk about the new feature at a Meetup
- A new Dev was applied for a gig

@TomHoubersg
Making Cost of Delay visible

Spent 15 minutes due to missing feature X

Spent 15 minutes due to bug Y

@Tom Housbergs
Cross-Cutting Concerns

- Testing
- Monitoring
- Logging
- Security
- Asynchronous Communication
- Synchronous Communication

@Tom Howbergs
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Am I allowed to do Open Source at work?
Urheberrechtsgesetz § 6a b

Wird ein Computeprogramm von einem Arbeitnehmer in Wahrnehmung seiner Aufgaben geschaffen, so ist ausschließlich der Arbeitgeber zur Ausführung aller vermögensrechtlichen Befugnisse an dem Computerprogramm berechtigt.
Arbeitsvertrag

... dem Arbeitgeber wird ein ausschließlicher Arbeitgeberrecht gemäß § 31 Abs. 3 Urheberrechtsgesetz eingräumt.
The Company works for me, who creates a contribution to an OSS project. The company accepts in the name of the company. The contribution is for usage right.
How do I publish my own Open Source Project?
Live Demo:
Publishing a Java Project to Bintray
It's no fun alone!
Fostering a Community

- Talks
- Meetups
- Brown Bag Sessions
- Hobby Project Presentations
- Hackergarten
- Blog Posts
Conclusion

- Watch for Triggers
- Make Cost of Delay visible
- Talk about your Achievements
- Band together with the like-minded
- Have Fun doing OSS!
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Questions?