

The 7 sins of workflow and rules in Java

Bernd Rücker | <u>bernd.ruecker@camunda.com</u> | @berndruecker



The 7 sins of workflow and rules in Java

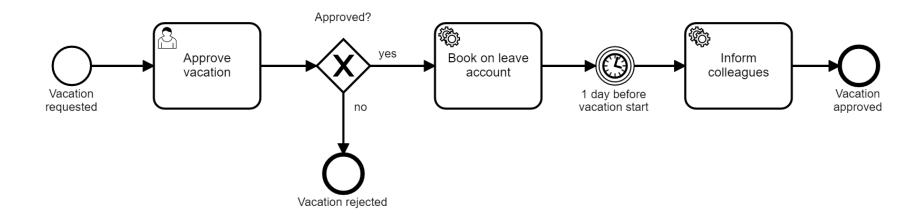
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What is workflow?

*aka known as business process management



Example



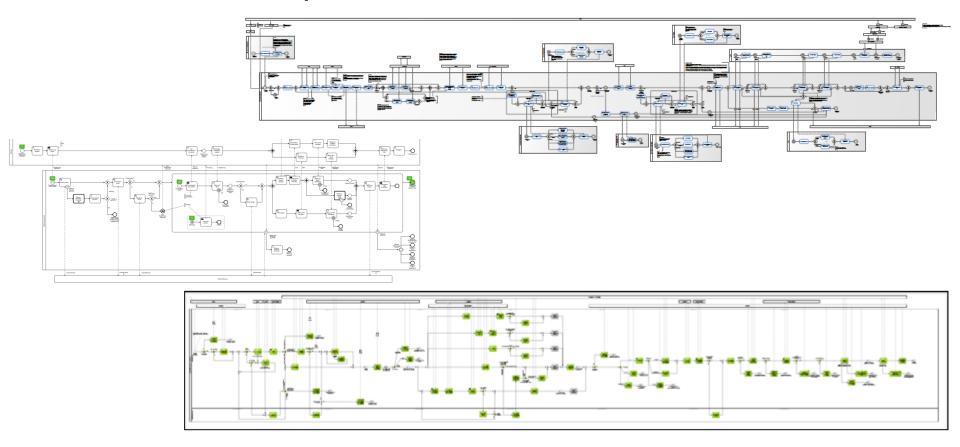
- * Modeled in BPMN
- = ISO Standard for modeling **and** execution





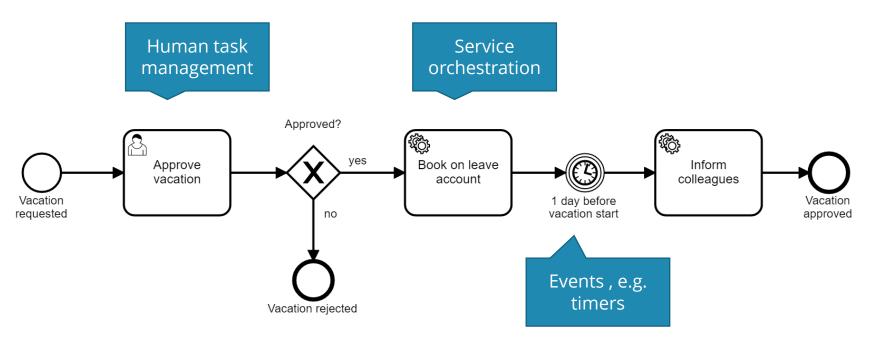


More realistic examples





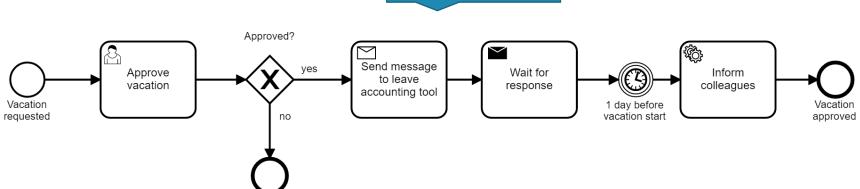
Challenges





Challenges

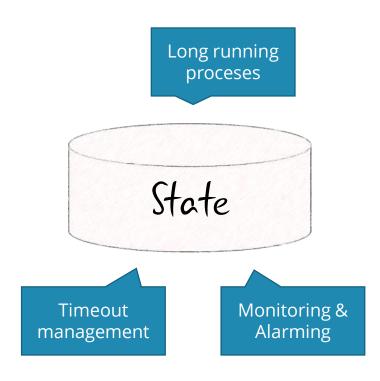
Asynchronous communication



Vacation rejected



What you need

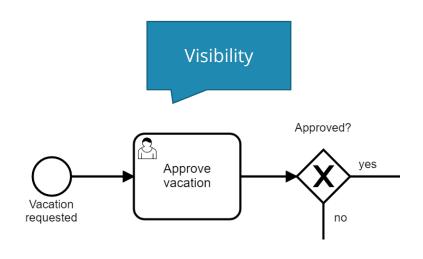




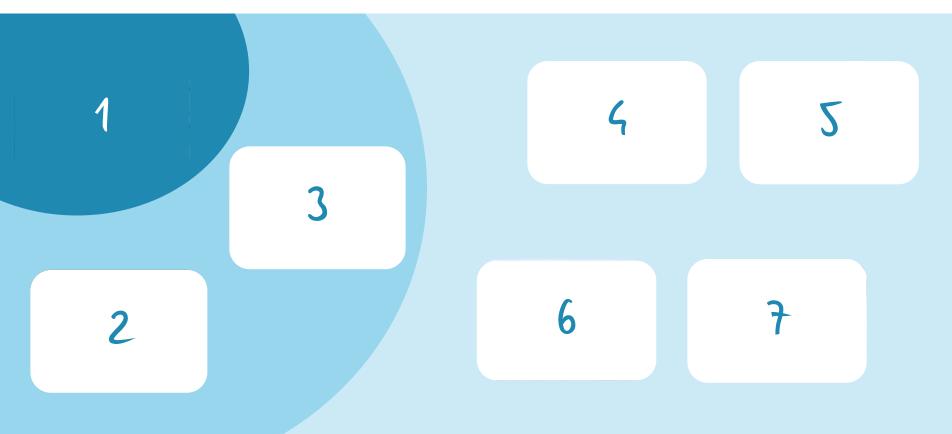
What you need

Long running proceses State Monitoring & Timeout Alarming management

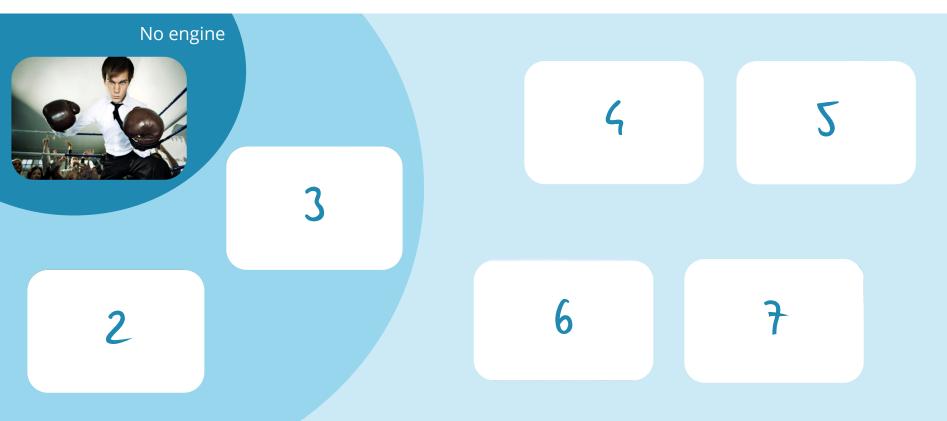
What you want



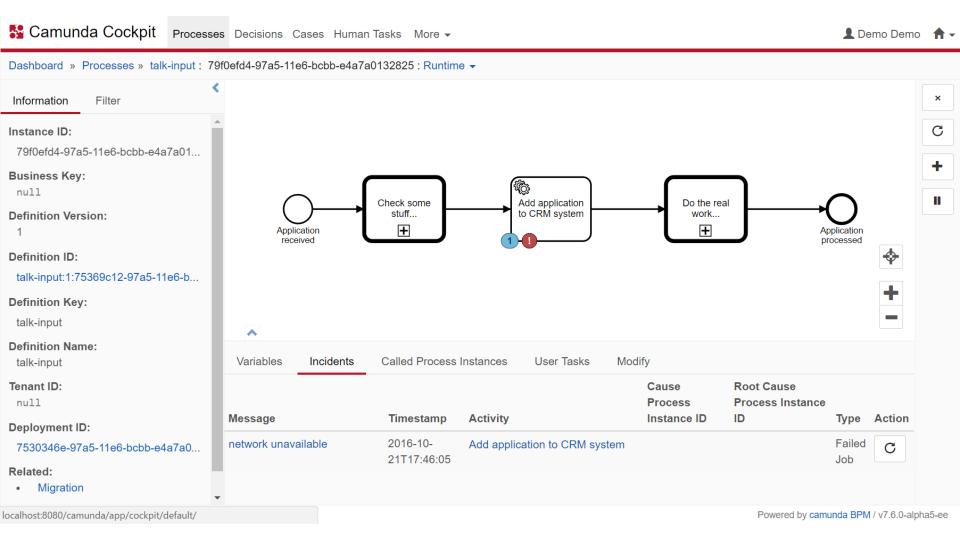


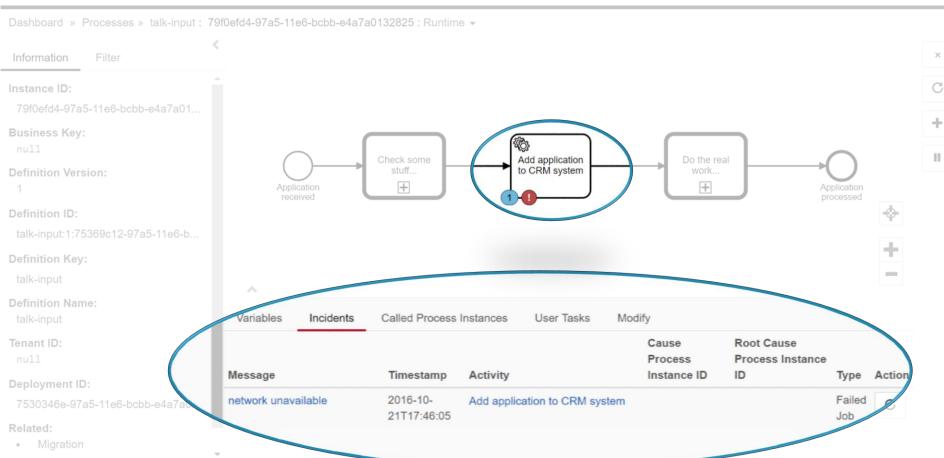




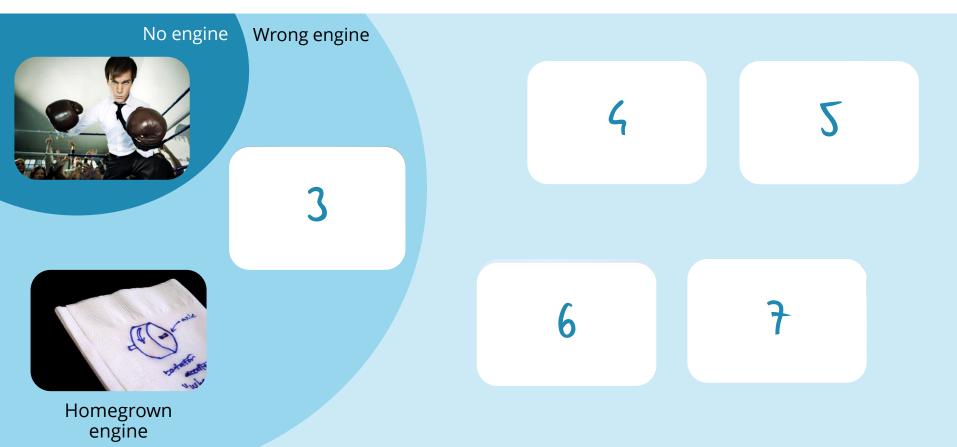






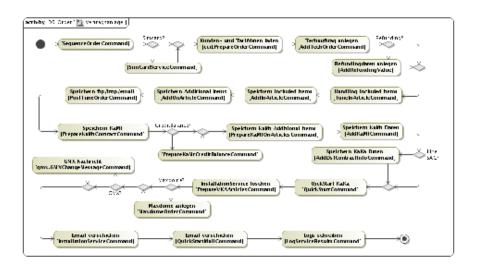








Typical outcomes

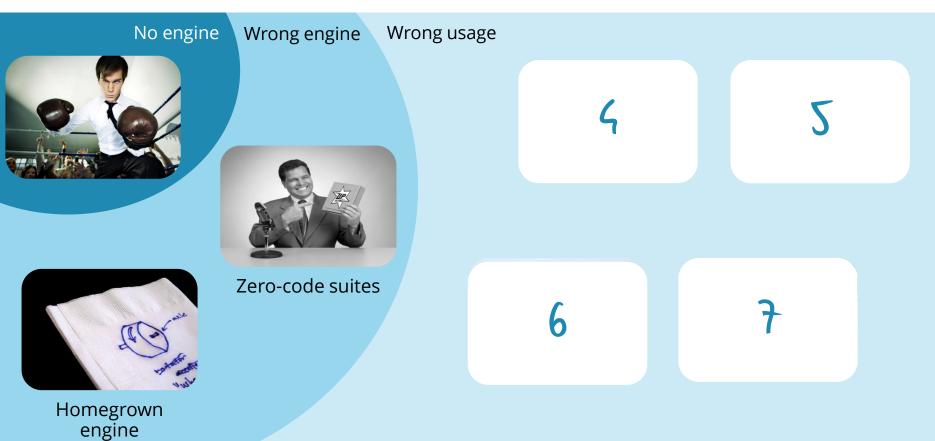


Own DSL, parsing, graphical representation, modeler, persistence, escalation, version management, tooling, ...



Whole teams maintaining something that always lacks behind

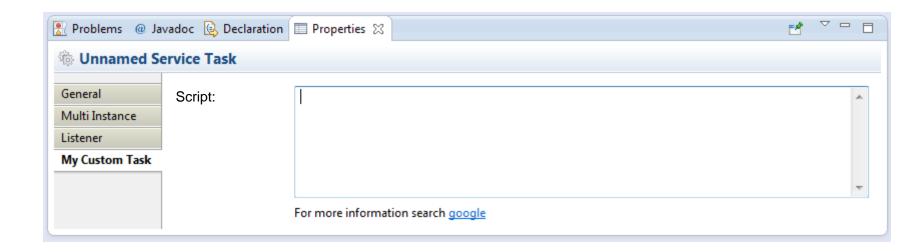






Death by properties panel

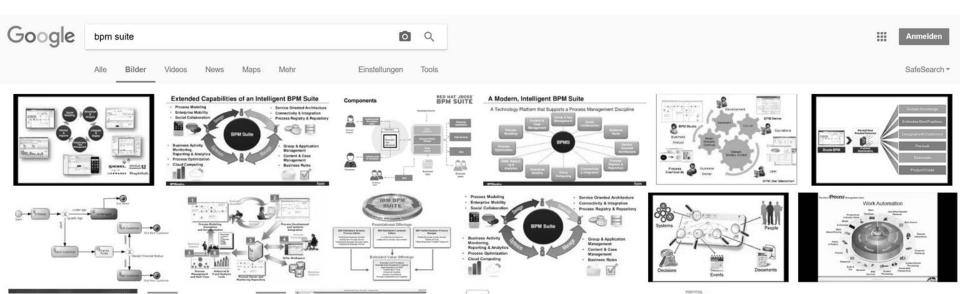
Please enter your complex code here. (Without IDE support of course!)





BPM Suites

By the way, we introduce an own development approach, IDE, version control, user management, reporting, ...





Zero code & developers

We have a lot of problems!

It totally sucks!
I hate BPM!





Bernd Rücker

Co-founder camunda > 10+ years workflow Technology evangelist

@berndruecker bernd.ruecker@camunda.com







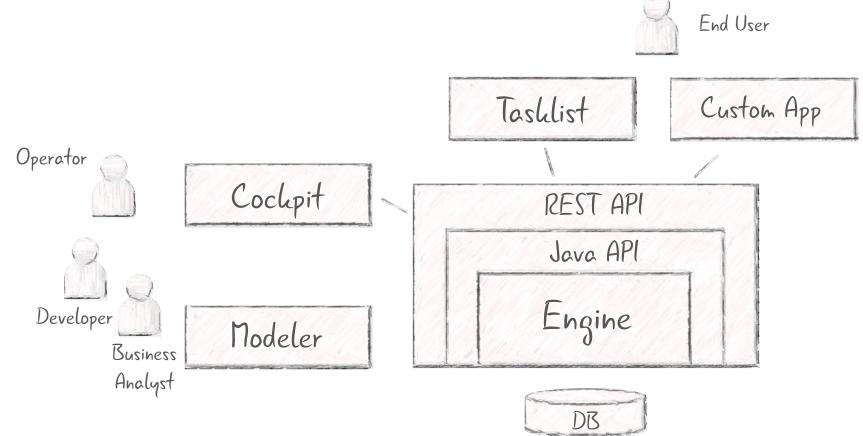
Camunda

Open Source BPM vendor Berlin + San Francisco > 60 employees - growing No venture capitel

www.camunda.org



Architecture





Developer friendly

```
ProcessEngine processEngine = ProcessEngineConfiguration
    .createStandaLoneProcessEngineConfiguration()
    .setJdbcUrl("jdbc:h2:mem:camunda")
    .buildProcessEngine();

processEngine.getRepositoryService()
    .createDeployment()
    .addClasspathResource("vacation-request.bpmn")
    .deploy();

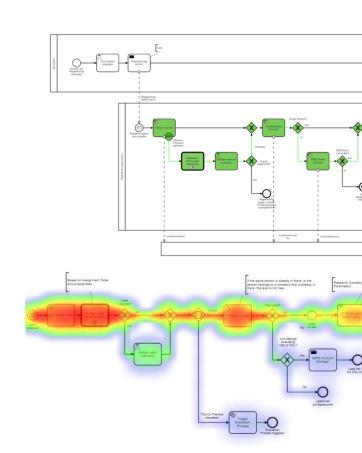
ProcessInstance processInstance = processEngine.getRuntimeService()
    .startProcessInstanceByKey("VacationRequestProcess", variableMap);
```

Live Demo



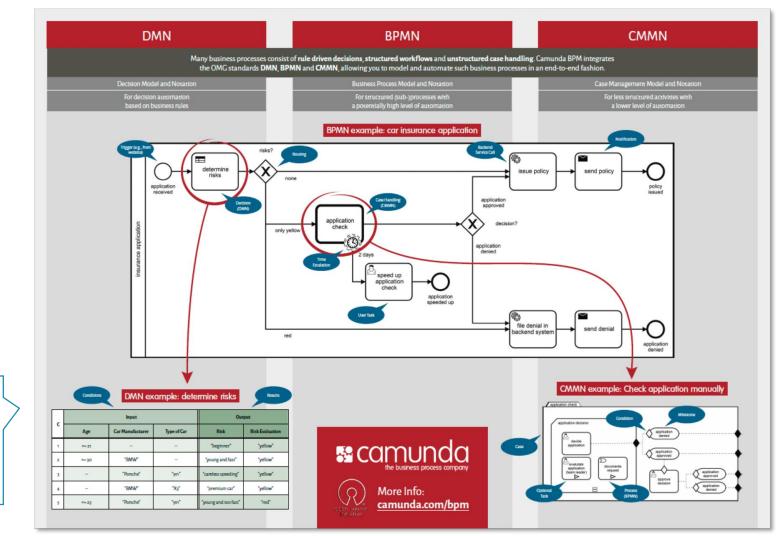
What we couldn't look at

- Automated Testing
- Embedded Engine (Spring, Spring Boot, Junit, ...)
- Container Integration (Tomcat, WildFly, JBoss, WAS, ...)
- Tooling (Webapplications, Modeler, ...)
- Connectivity (REST, SOAP, Messaging, ...)
- Scalability, Clustering & Performance
- Next generation: Microservices, Event Driven Architecture, Serverless, Cloud, ...
- Polyglott





Trio of standards



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• Insurance: Insurance Policy Issue, Claim Settlement, ...

• Telco: OSS, BSS, ...

• Media: Digital Content Delivery, ...

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AT&T













Visit us at our booth



We can also discuss the 7 sins in detail!

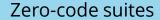
No engine

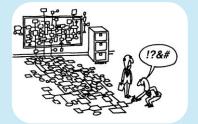
Wrong engine

Wrong usage









Granularity bloopers



Over engineering



Homegrown engine



BPM monolith



Stakeholders habitat violation

