

# Von Flugzeugen, Operationen und Gerüsten

Mehr Effizienz in der  
Softwareentwicklung

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**SapientNitro™**

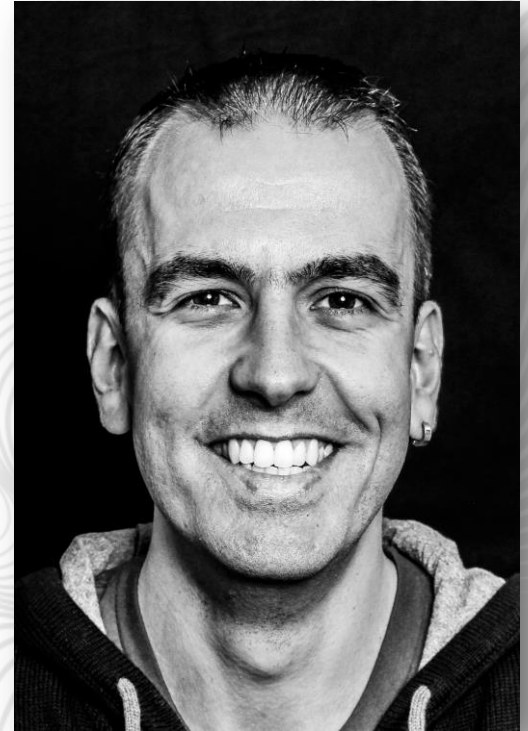


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# Agenda

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1. Bestandsaufnahme
2. Lernen vom: Pilot
3. Lernen vom: Handwerker
4. Lernen vom: Arzt

# BESTANDSAUFNAHME

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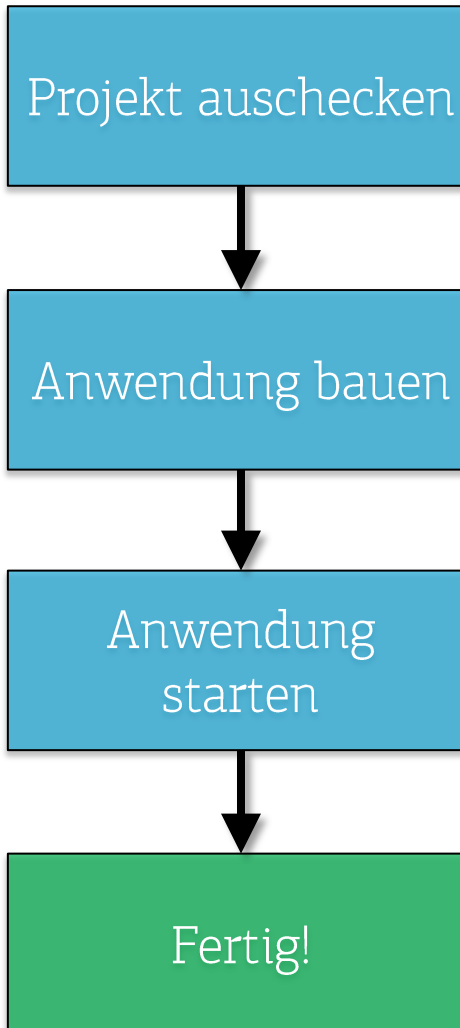
# EIN TYPISCHES ERLEBNIS: DER NEUE KOMMT!

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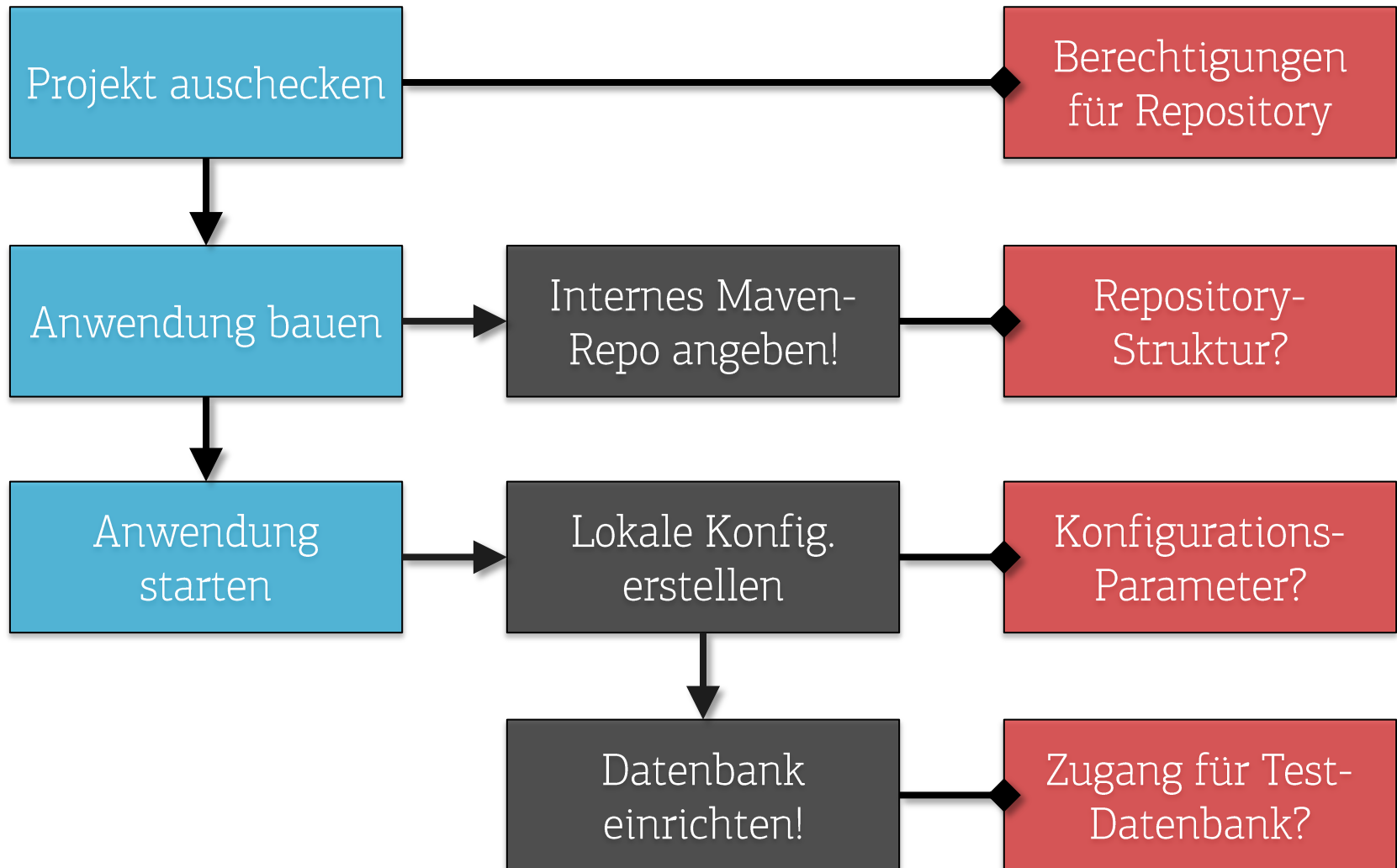
# DER NEUE KOMMT: DIE THEORIE

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# DER NEUE KOMMT: DIE PRAXIS

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# DAS ERGEBNIS: FRUST!

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# WIE MACHEN ES DENN DIE ANDEREN?

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# LERNEN VOM: PILOT

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# STANDARDISIERTE SPRACHE

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*"Flight Attendants: All  
slides in armed  
position and cross-  
check bitte - danke!"*

# CHECKLISTE

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- [ ] Wartungsseite online stellen
- [ ] Anwendungsserver herunterfahren
- [ ] Kontrolle ob Prozess beendet
- [ ] Neues WAR-File einspielen
- [ ] Anwendungsserver hochfahren
- [ ] Testaufruf Startseite
- [ ] Wartungsseite entfernen
- [ ] Update in Serverhandbuch eintragen
- [ ] E-Mail an Projektteam

# KLARE VERANTWORTLICHKEIT

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# DON'T PANIC!



# LERNEN VOM: HANDWERKER

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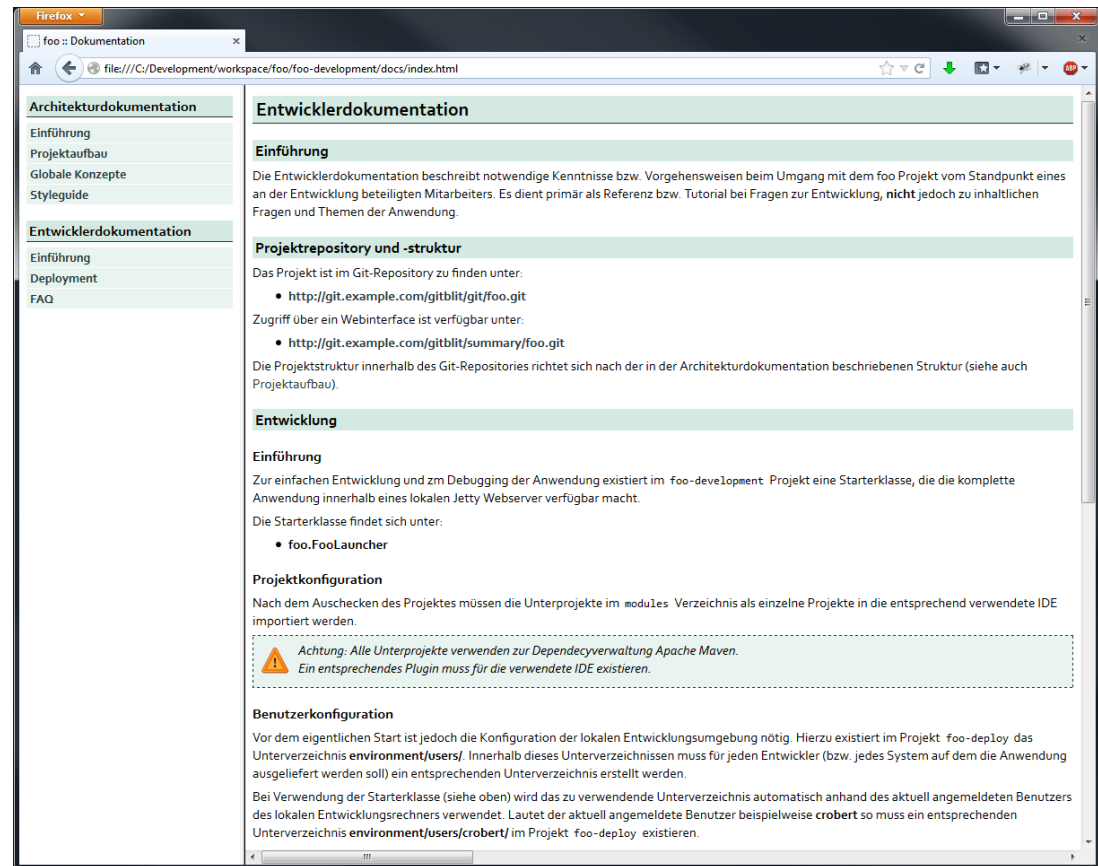
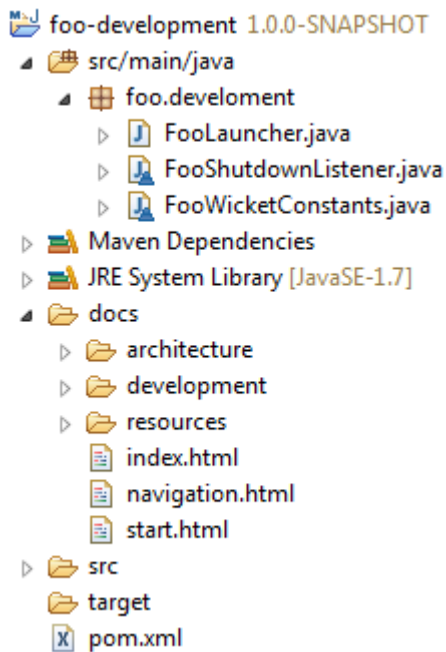
# GERÜST AUF DER BAUSTELLE

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# ENTWICKLUNGSPROJEKT



# EINFACHER ANWENDUNGSSTART

foo-development 1.0.0-SNAPSHOT

- src/main/java
  - foo.development
    - FooLauncher.java
    - FooShutdownListener.java
    - FooWicketConstants.java
- Maven Dependencies
- JRE System Library [JavaSE-1.7]
- docs
  - architecture
  - development
  - resources
    - index.html
    - navigation.html
    - start.html
- src
- target
- pom.xml

```
foo-development > src/main/java > foo.development > FooLauncher >
1 package foo.development;
2
3 import java.io.File;
4
5 import org.apache.logging.log4j.LogManager;
6 import org.apache.logging.log4j.Logger;
7 import org.eclipse.jetty.server.Server;
8 import org.eclipse.jetty.webapp.WebAppContext;
9
10 public class FooLauncher {
11
12     private static final Logger log = LogManager.getLogger(FooLauncher.class);
13
14     public static void main(String[] args) {
15         try {
16
17             FooShutdownListener.shutdownExistingServer();
18
19             String configDirectoryValue = FooLauncher.resolveConfigDirectory();
20             log.trace("Setting foo config directory to: " + configDirectoryValue);
21
22             WebAppContext webAppContext = new WebAppContext();
23             webAppContext.setContextPath("/foo");
24             webAppContext.setResourceBase("../foo-deploy/src/main/webapp/");
25             webAppContext.setInitParameter("foo.config.Directory", new File(configDirectoryValue).getCanonicalPath());
26             webAppContext.setInitParameter("foo.config.IncludeContextPath", "true");
27             webAppContext.setInitParameter("foo.config.Type", "development");
28
29             log.info("Launching embedded Jetty webserver");
30             Server server = new Server(FooWicketConstants.HTTP_PORT);
31             server.setHandler(webAppContext);
32             server.start();
33             log.info("Embedded Jetty webserver launched");
34
35             FooShutdownListener.installForServer(server);
36
37         } catch (Exception e) {
38             System.err.println("Cannot launch foo application");
39             e.printStackTrace(System.err);
40             System.exit(1);
41         }
42     }
43 }
```

# WERKZEUGKASTEN

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# ABHÄNGIGKEITEN PLANEN UND VERWALTEN

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# SOURCECODEVERWALTUNG

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# STANDARDISIERUNG / AUTOMATISIERUNG

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# HÄUFIGE UND REGELMÄSSIGE INTEGRATION

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# SONSTIGE WERKZEUGE

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# DEDIZIERTE ENTWICKLUNGSRESSOURCEN

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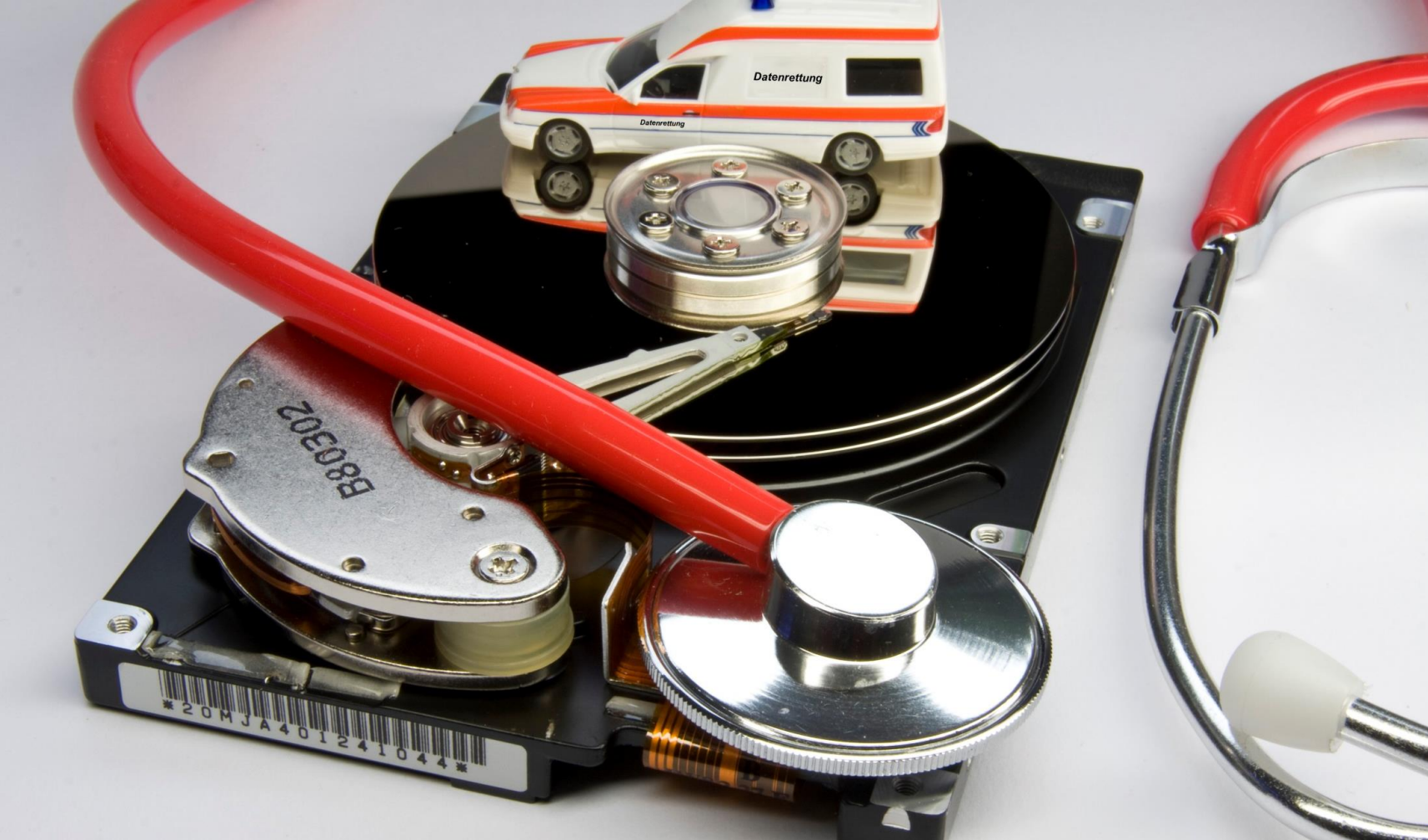
# LOKALE ENTWICKLUNGSRESSOURCEN

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# LERNEN VOM: ARZT

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# BERUF VS. BERUFUNG

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# OPTIMALE VORBEREITUNG

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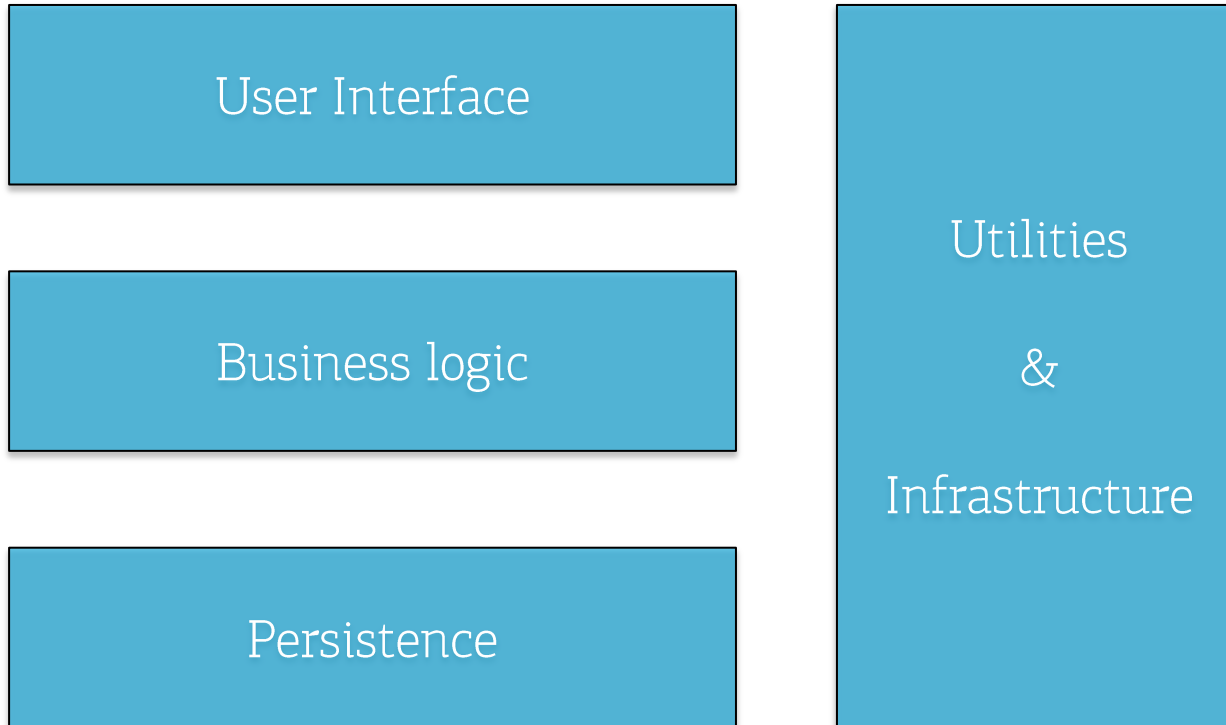
# VORAUSSETZUNG: GUTE ARCHITEKTUR

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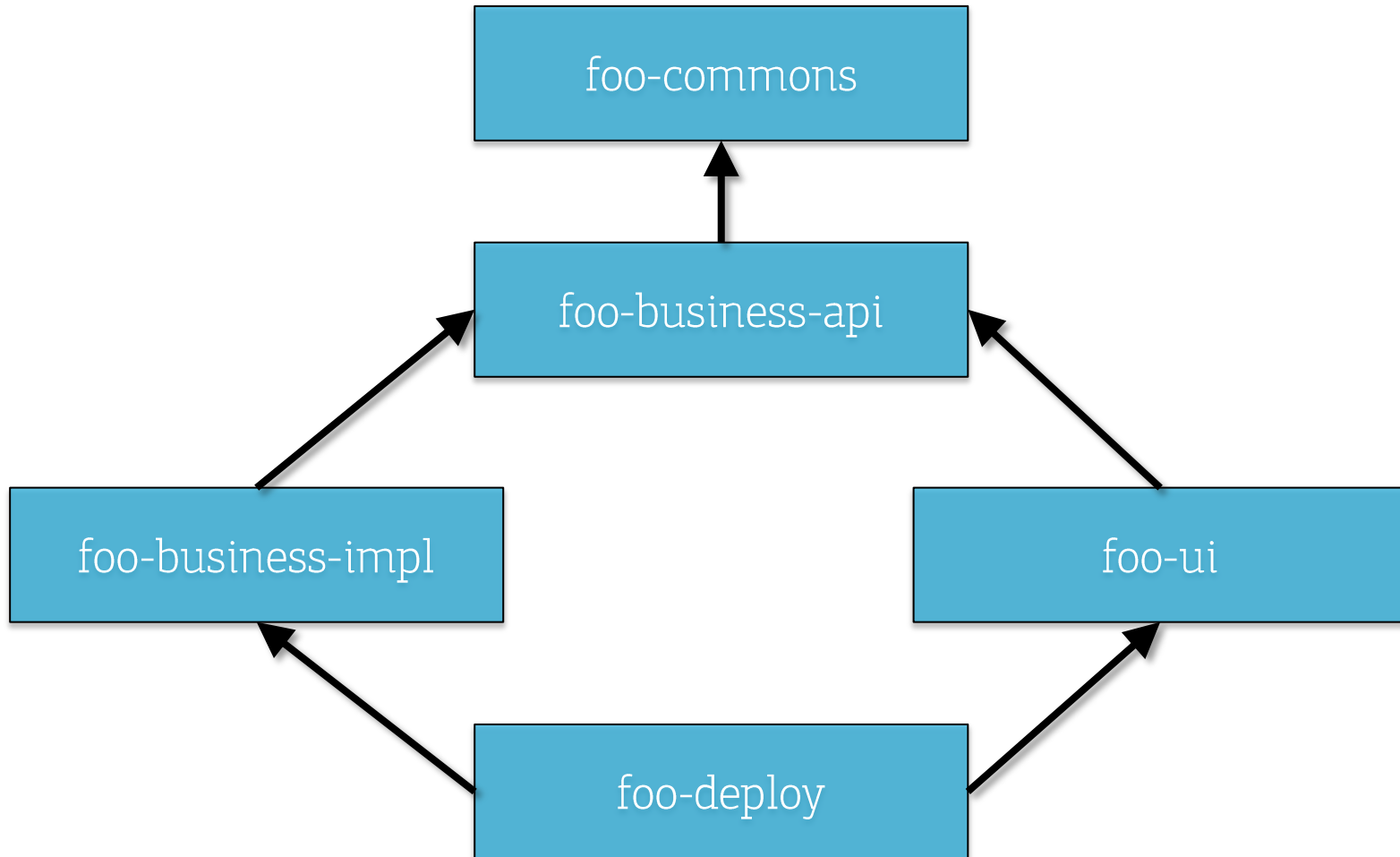
# VORAUSSETZUNG: GUTE ARCHITEKTUR

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# VORAUSSETZUNG: GUTE ARCHITEKTUR

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# AUSSAGEKRÄFTIGE MELDUNGEN

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```
java.lang.NullPointerException
  at de.perdian.test.Test.foo(Test.java:12)
  at de.perdian.test.Test.main(Test.java:44)
```

```
java.lang.IllegalArgumentException:
Parameter 'foo' must not be null!
  at de.perdian.test.Test.foo(Test.java:12)
  at de.perdian.test.Test.main(Test.java:44)
```

# AUSSAGEKRÄFTIGE MELDUNGEN

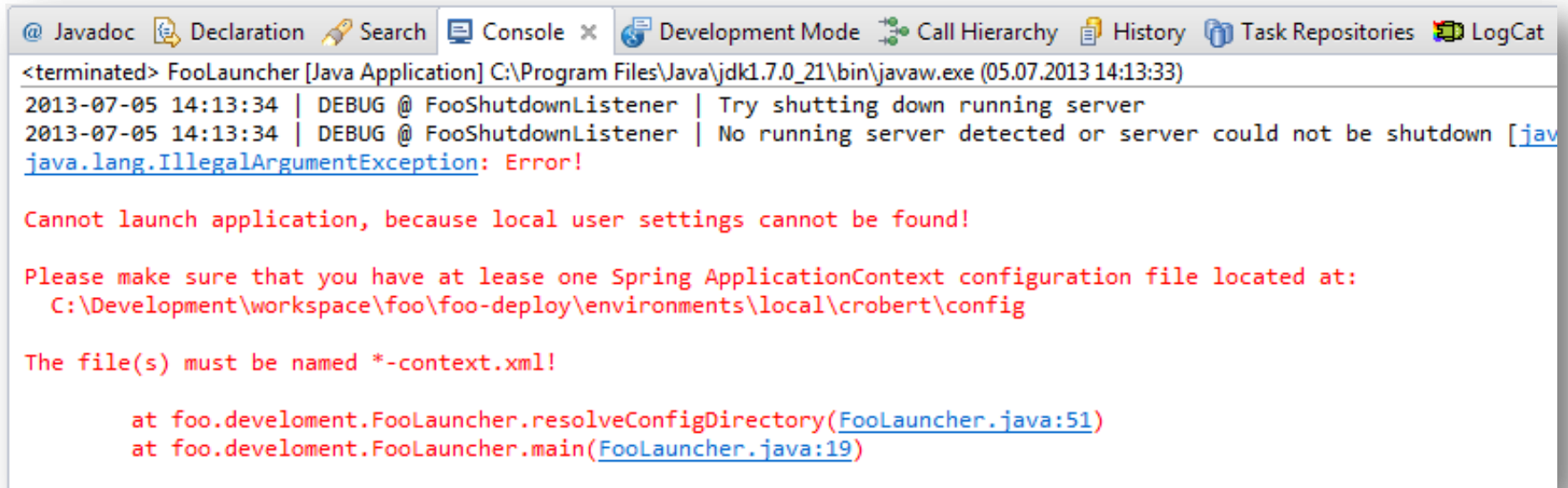
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```
java.lang.IllegalArgumentException:  
Invalid value for x!  
    at de.perdian.test.Test.foo(Test.java:12)  
    at de.perdian.test.Test.main(Test.java:44)
```

```
java.lang.IllegalArgumentException:  
Invalid value for x!  
(Actual: 42, Minimum: 101, Maximum: 999)  
    at de.perdian.test.Test.foo(Test.java:12)  
    at de.perdian.test.Test.main(Test.java:44)
```

# SPRECHENDE ANWENDUNG

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```
@ Javadoc Declaration Search Console x Development Mode Call Hierarchy History Task Repositories LogCat
<terminated> FooLauncher [Java Application] C:\Program Files\Java\jdk1.7.0_21\bin\javaw.exe (05.07.2013 14:13:33)
2013-07-05 14:13:34 | DEBUG @ FooShutdownListener | Try shutting down running server
2013-07-05 14:13:34 | DEBUG @ FooShutdownListener | No running server detected or server could not be shutdown [jav
java.lang.IllegalArgumentException: Error!

Cannot launch application, because local user settings cannot be found!

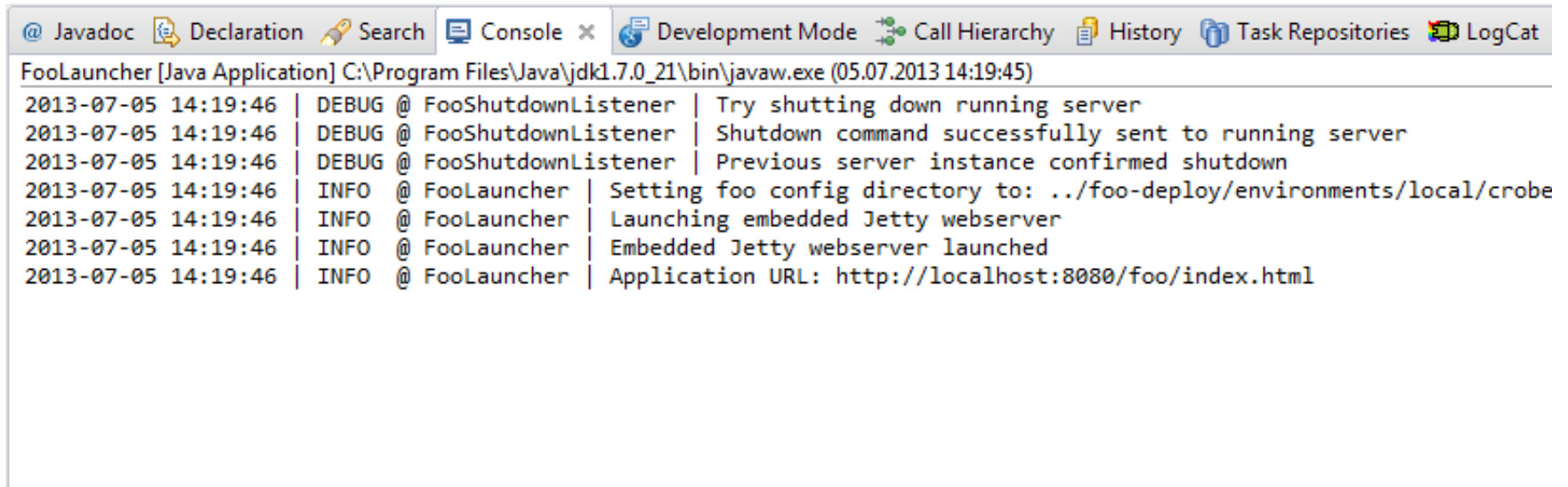
Please make sure that you have at lease one Spring ApplicationContext configuration file located at:
  C:\Development\workspace\foo\foo-deploy\environments\local\crobert\config

The file(s) must be named *-context.xml!

    at foo.development.FooLauncher.resolveConfigDirectory(FooLauncher.java:51)
    at foo.development.FooLauncher.main(FooLauncher.java:19)
```

# SPRECHENDE ANWENDUNG

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The screenshot shows a console window from an IDE. The title bar includes tabs for Javadoc, Declaration, Search, Console, Development Mode, Call Hierarchy, History, Task Repositories, and LogCat. The console output is as follows:

```
FooLauncher [Java Application] C:\Program Files\Java\jdk1.7.0_21\bin\javaw.exe (05.07.2013 14:19:45)
2013-07-05 14:19:46 | DEBUG @ FooShutdownListener | Try shutting down running server
2013-07-05 14:19:46 | DEBUG @ FooShutdownListener | Shutdown command successfully sent to running server
2013-07-05 14:19:46 | DEBUG @ FooShutdownListener | Previous server instance confirmed shutdown
2013-07-05 14:19:46 | INFO @ FooLauncher | Setting foo config directory to: ../foo-deploy/environments/local/crobe
2013-07-05 14:19:46 | INFO @ FooLauncher | Launching embedded Jetty webserver
2013-07-05 14:19:46 | INFO @ FooLauncher | Embedded Jetty webserver launched
2013-07-05 14:19:46 | INFO @ FooLauncher | Application URL: http://localhost:8080/foo/index.html
```

# RUHE UND BESONNENHEIT

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# **Fragen? Offene Punkte?**

**Meet the Speaker  
@speakerlounge**

**1. OG direkt über  
dem Empfang**

# Vielen Dank!

