## Beobachtest du noch oder verbesserst du schon?

Dr. Nils Göde

Dr. Dennis Pagano



# CQSE GmbH

### **Forschung**

- 13 Promotionen in Software Engineering
- Eigene Forschung
- Enger Kontakt zu Universitäten, Gl

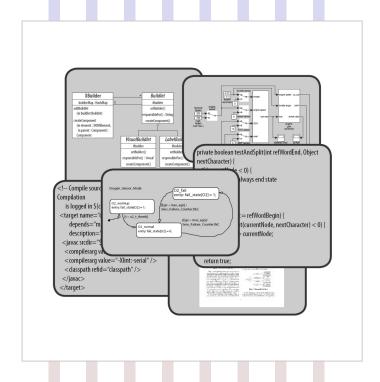
### **Praxis**

- Software Audits
- Kontinuierliche Qualitäts- und Testkontrolle
- Teamscale



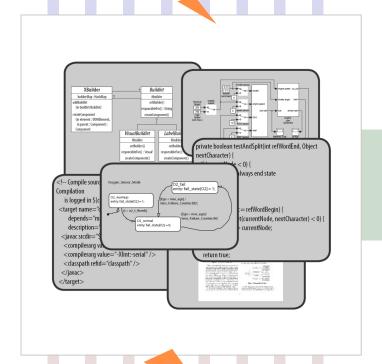
# Software-Qualität

### Anforderungen: Geschäftsprozesse, Funktionen, ...



Technologie: Hardware, OS, Sprachen, Datenbanken, ...

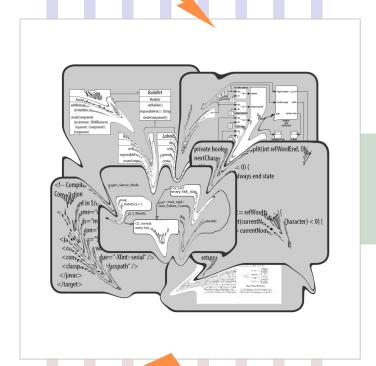
### Anforderungen: Geschäftsprozesse, Funktionen, ...



## **Software-Wartung**

Technologie: Hardware, OS, Sprachen, Datenbanken, ...

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## **Software-Wartung**

Technologie: Hardware, OS, Sprachen, Datenbanken, ...

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```
2586:
                                                    }
                                                    if ( .length == 2) {
2587:
2588:
2589:
                                                       2590:
2591:
                                                       for (int k = 0;
2592:
                                                           k < .length;
2593:
                                                           k++) {
2594:
2595:
2596:
                                                                  Continue of the second
2597:
2598:
                                                           Lander Tapen, Addition
2599:
2600:
2601:
                                                    } else {
2602:
                                                       logger.fatal(
2603:
                                                              "There can only be either "
                                                              + "one or two .");
2604:
2605:
2606:
2607:
2608:
                                          }
2609:
                                      }
2610:
                                   } else {
2611:
                                      logger.fatal("Invalid constant: "
                                                 2612:
2613:
2614:
                                }
2615:
2616:
                         }
                     } else {
2617:
                         logger.fatal("Invalid constant: " + );
2618:
2619:
                  }
2620:
2621:
2622:
              return
2623:
           }
```

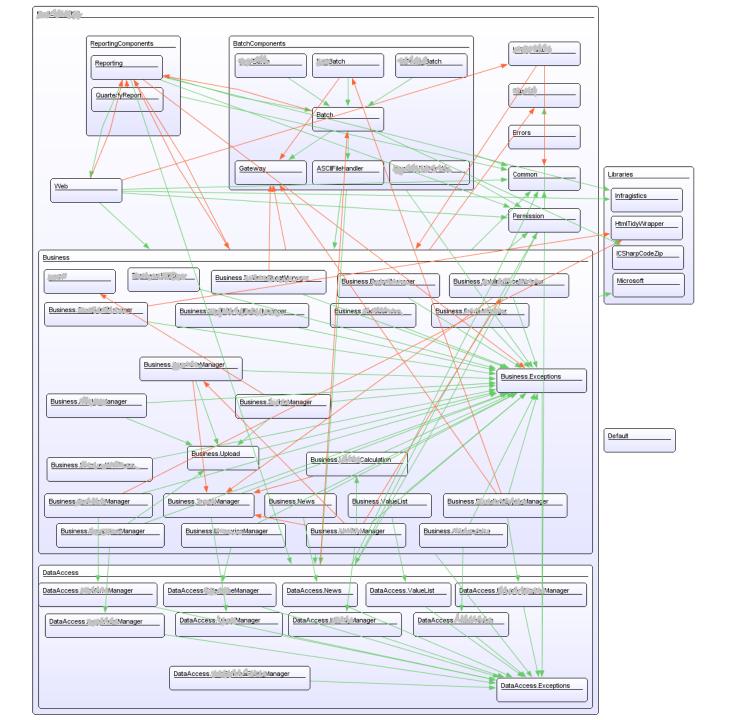
. . .

```
/* Process the input string received prior to the
   newline. */
    do
        /* Pass the string to FreeRTOS+CLI. */
        xMoreDataToFollow = FreeRTOS_CLIProcessCommand( cInputString, cOm
        /* Send the output generated by the command's
        implementation. */
        sendto(xSocket, cOutputString, strlen(cOutputString), 0, (St
    } while( xMoreDataToFollow != pdFALSE ); /* Until the command does no
    /* All the strings generated by the command processing
    have been sent. Clear the input string ready to receive
    the next command. */
    cInputIndex = 0;
    memset( cInputString, 0x00, cmdMAX_INPUT_SIZE );
    /* Transmit a spacer, just to make the command console
    easier to read. */
   sendto( xSocket, "\r\n", strlen( "\r\n" ), 0, ( SOCKADDR * ) &xClie
else
    if( cInChar == '\r' )
        /* Ignore the character. Newlines are used to
        detect the end of the input string. */
    else if( cInChar == '\b' )
        /* Backspace was pressed. Erase the last character
        in the string - if any. */
       if( cInputIndex > 0 )
            cInputIndex--;
            cInputString[ cInputIndex ] = '\0';
    }
    else
```

```
/* Process the input string received prior to the
    newline. */
    do
        /* Pass the string to FreeRTOS+CLI. */
        xMoreDataToFollow = FreeRTOS_CLIProcessCommand( cInputString,
        /* Send the output generated by the command's
        implementation. */
        sendto( xSocket, cOutputString, strlen( cOutputString ), 0, 1
    } while( xMoreDataToFollow != pdFALSE ); /* Until the command does
    /* All the strings generated by the command processing
    have been sent. Clear the input string ready to receive
    the next command. */
    cInputIndex = 0;
    memset( cInputString, 0x00, cmdMAX_INPUT_SIZE );
    /* Transmit a spacer, just to make the command console
    easier to read. */
   sendto( xSocket, "\r\n", strlen( "\r\n"), 0, ( SOCKADDR * ) &xCl
else
    if( cInChar == '\r' )
        /* Ignore the character. Newlines are used to
        detect the end of the input string. */
    else if( ( cInChar == '\b' ) || ( cInChar == cmdASCII DEL ) )
        /* Backspace was pressed. Erase the last character
        in the string - if any. */
        if( cInputIndex > 0 )
            cInputIndex--;
            cInputString[ cInputIndex ] = '\0';
    }
    else
```

. . .

```
621
622
     public boolean beautiful ()
623
     {
624
        return Boolean.TRUE.equals(
625
     }
626
627
     / * *
628
629
630
631
                     \ III: Nur mit äußerster Vorsicht benutzen, da dieses Attribut nicht selten via
632
                          JavaScript gesetzt wird und dies nicht immer korrekt !!!
633
                          ' arbeitet zuverlässiger
634
635
              71 AT
636
                       (06/2010): so nicht mehr richtig, weil die inzwischen ebenfalls
637
                           eine hat.
            | | | | | | | /
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            |-\IIIIII/-|
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640
             `----*/
641
642
643
     public int ()
644
645
        return :
646
```



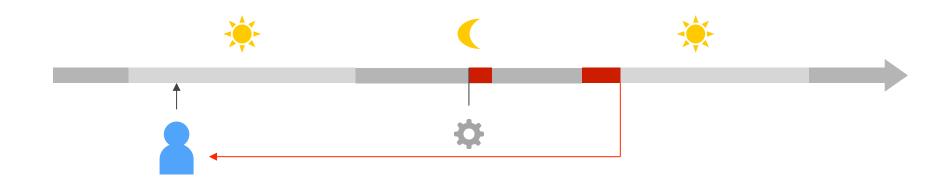
### Sicherheitslücke "goto fail": Was Apple-Nutzer jetzt tun müssen

```
if ((err = ReadyHash(&SSLHashSHA1, &hashCtx)) != 0)
     goto fail;
 if ((err = SSLHashSHA1.update(&hashCtx, &clientRandom)) != 0)
     goto fail;
 if ((err = SSLHashSHA1.update(&hashCtx, &serverRandom)) != 0)
     goto fail;
 if ((err = SSLHashSHA1.update(&hashCtx, &signedParams)) != 0)
     goto fail;
     goto fail;
 if ((err - sslHashSHA1.final(&hashCtx, &hashOut)) != 0)
     goto fail:
         = sslRawVerify(ctx,
Fotos
                    ctx->peerPubKey,
                    dataToSign,
                                                               /* plaintext */
                                                                           SPIEGEL ONLINE
```

iPhones sind gefährdet, iPads und Mac-Rechner ebenfalls: Der Großteil der Apple-Geräte hat eine gravierende Sicherheitslücke. Für iPhone und iPad gibt es schon Updates, Mac-Nutzer müssen warten und höllisch aufpassen.



Nutzer von Apple-Geräten sind in großer Gefahr: In den Betriebssystemen des Konzerns für Tablets und Smartphones (iOS) sowie Mac-Rechner (OSX) klafft eine gravierende Sicherheitslücke.



# Wie kann man kontinuierliche Qualitätsverbesserung sinnvoll durchführen?

activiti ^

Project: Activiti Branch: master

**↑** Timetravel: ② Findings at most recent revision

### 17712 findings in activiti **►** (3 blacklisted)

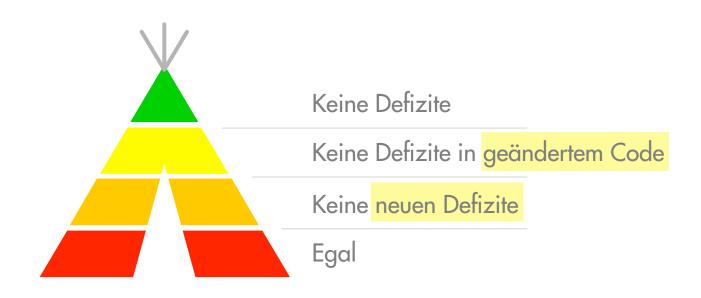
### Add findings to task

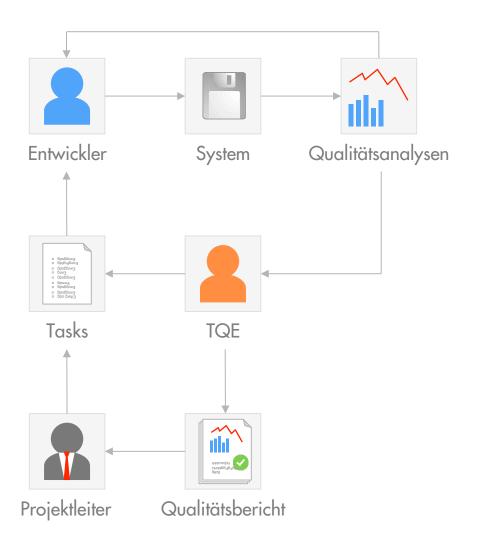
Message	Location	Finding Group	Introduction date
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:256	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:187	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:175	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:74	Documentation / Comment completeness	Jan 26 2016 20:34
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Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:162	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:146	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:150	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:98	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:272	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:223	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:78	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:219	Documentation / Comment completeness	Jan 26 2016 20:34
Clone with 2 instances of length 12	modules/activiti-engine//impl/RepositoryServiceImpl.java:146-169	Code Duplication / Cloning	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:171	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:90	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:264	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:211	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:231	Documentation / Comment completeness	Jan 26 2016 20:34
Clone with 2 instances of length 12	modules/activiti-engine//impl/RepositoryServiceImpl.java:171-193	Code Duplication / Cloning	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:121	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:82	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:260	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:215	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:183	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:154	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:252	Documentation / Comment completeness	Jan 26 2016 20:34





### Qualitätsziele





### **Schnelles Feedback**

Unmittelbare Reaktion auf Qualitätsdefizite

### Konkrete Verbesserungen

**Definition von Tasks** 

### **Hohe Transparenz**

»Features vs. Qualität«-Entscheidungen





Steidl et. al: Continuous Software Quality Control in Practice,
IEEE International Conference on Software Maintenance and Evolution (ICSME'14), 2014

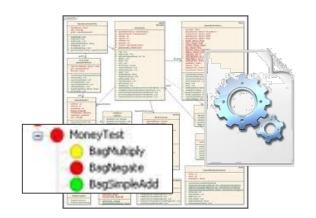
# Wie können Werkzeuge kontinuierliche Qualitätsverbesserung unterstützen?



Unterscheidung zwischen alten und neuen Problemen

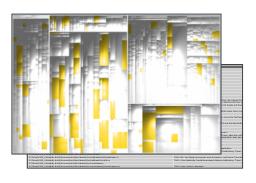


Schnelles, persönliches Feedback

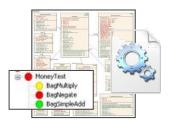






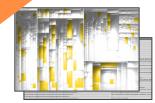


### Baseline





## Basel 3 Dael 3ard



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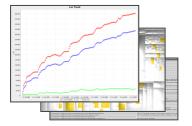


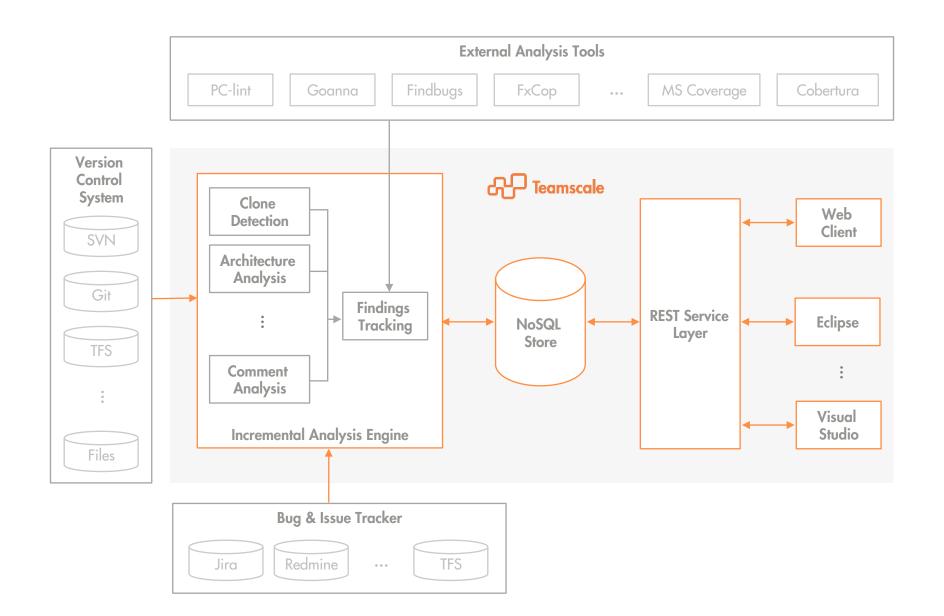


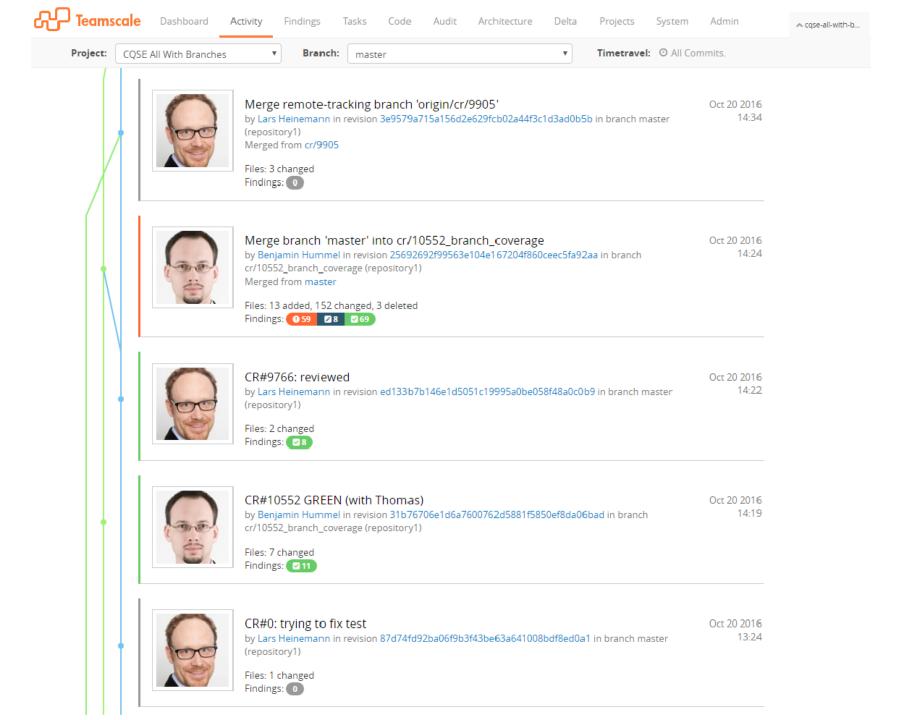




# Dashboard inkl Delta







```
BusinessRuleTaskXMLConverter.java

    ■ DefinitionsParser.java 
    □
          model.setTargetNamespace(xtr.getAttributeValue(null, TARGET NAMESPACE ATTRIBUTE));
          for (int i = 0; i < xtr.getNamespaceCount(); i++) {</pre>
            String prefix = xtr.getNamespacePrefix(i);
            if (StringUtils.isNotEmpty(prefix)) {
              model.addNamespace(prefix, xtr.getNamespaceURI(i));
                                                                                                           for (int i = 0; i < xtr.getAttributeCount(); i++) {</pre>
            ExtensionAttribute extensionAttribute = new ExtensionAttribute();
            extensionAttribute.setName(xtr.getAttributeLocalName(i));
            extensionAttribute.setValue(xtr.getAttributeValue(i));
            if (StringUtils.isNotEmpty(xtr.getAttributeNamespace(i))) {
              extensionAttribute.setNamespace(xtr.getAttributeNamespace(i));
            if (StringUtils.isNotEmpty(xtr.getAttributePrefix(i))) {
              extensionAttribute.setNamespacePrefix(xtr.getAttributePrefix(i));
            if (!BpmnXMLUtil.isBlacklisted(extensionAttribute, defaultAttributes)) {
              model.addDefinitionsAttribute(extensionAttribute);
      Clone with 2 instances of length 10
🛃 Problems 🏿 Javadoc 🗟 Declaration 🧬 Findings 🛭 📑 Orphans View 🔲 Properties
4 items
 Description
                                                          Group
                                                                        Category
                                                                                      Resource
                                                                                                    Location
    Clone with 2 instances of length 10
                                                                                      DefinitionsPa... 47-60
                                                          Code Duplica... Cloning
    Interface comment missing
                                                          Documentati...
                                                                       Comment co... DefinitionsPa... 29
    Interface comment missing
                                                          Documentati...
                                                                       Comment co... DefinitionsPa... 38
    Name violates naming convention: defaultAttributes. Should be Naming
                                                                        Java naming ... DefinitionsPa... 31
```



# Was kann man konkret tun?

# Mit geerbten Problemen pragmatisch umgehen







fixed: latest change is no longer lost when assigning entry to a keyword group while it is being edited

May 26 2005 15:58

by jzieren in revision e0ca9a51b50c8b01f579f4eef79028bff6c34028 (git)

0 1 alerts:

Message Context

Found potential inconsistent clone change in RightClickMenu.java [Broken clone] [Old clone finding] [Code change]

removed findings:

Message	Location	Finding Group
Clone with 2 instances of length 10	src/java/net/sf//RightClickMenu.java:366-380	Code Duplication / Cloning
Clone with 2 instances of length 10	src/java/net/sf//RightClickMenu.java:340-354	Code Duplication / Cloning

```
/// <param name="authority">Die Zuweisung die deaktiviert werden soll</param
void IAuthorityListManager.DeactivateAuthority(DecMemoIdentifier decMemoId,
  this.delegateManager.DeactivateAuthority(decMemoId, authorityList as AuthorityCompany)
/// <summary>
/// Führt die Laufliste fort (geht zur nächsten Zuweisung über wenn die aktuelle Z
/// </summary>
/// <param name="decMemoId">Identifikator der Entscheidungsvorlage</param
/// <param name="authorityList">Die Laufliste die fortgeführt werden soll</para
/// <returns>Die nach dem Fortführen aktive Zuweisung der Laufliste</returns>
IAuthorityAssignment IAuthorityListManager.Proceed(DecMemoIdentifier decMer
  if (!this.CheckCurrentUserMayProceed(authorityList as AuthorityList))
     throw new AuthorityListException(Error_27.CurrentUserMayNotProceedAut)
  if (authorityList.State == AuthorityListState.InProgress)
    DTOComplex decMemoData = this.GetDecMemo(decMemoId, Currency.Neul
     ((IDecMemoState)this), SubmitDecMemo(decMemoId, decMemoData);
     IAuthorityAssignment newActiveAssignment = this.delegateManager.Proced
     return newActiveAssignment;
  else
     return this, delegate Manager, Proceed (dec Memo Id, authority List as Authority)
```

```
void IAuthorityListManager.DeactivateAuthority(DecMemoIdentifier decMe
  this.delegateManager.DeactivateAuthority(decMemoId, authorityList as
/// <summary>
/// Führt die Laufliste fort (geht zur nächsten Zuweisung über wenn die ak
/// </summary>
/// <param name="decMemoId">Identifikator der Entscheidungsvorlage <</pre>
/// <param name="authorityList">Die Laufliste die fortgeführt werden soll
/// <returns>Die nach dem Fortführen aktive Zuweisung der Laufliste</re
IAuthorityAssignment IAuthorityListManager.Proceed(DecMemoIdentifier)
  if (!this.CheckCurrentUserMayProceed(authorityList as AuthorityList))
    throw new AuthorityListException(Error_27.CurrentUserMayNotProce
  if (authorityList.State == AuthorityListState.InProgress)
    DTOComplex decMemoData = ((ICedentDecMemoStore)this).GetCed
    ((IDecMemoState)this).SubmitDecMemo(decMemoId, decMemoData);
    IAuthorityAssignment newActiveAssignment = this.delegateManager
    base.CommitTransaction():
    return newActiveAssignment;
  else
    return this, delegateManager, Proceed (decMemoId, authorityList as A
```

# Sinn und Wirksamkeit von Änderungen überprüfen





```
58
         public void testFetchTaskWithSpecificVariable() {
 59
 60
             // Create test data
             for (int i=0; i<5; i++) {
 61
 62
                 Task task = taskService.newTask();
 63
                 task.setName(i + "");
 64
                 taskService.saveTask(task);
 65
 66
                 taskService.setVariable(task.getId(), "myVar", Long.valueOf(task.getId()) * 2);
 67
                 taskService.setVariable(task.getId(), "myVar2", "SomeOtherValue");
 68
 69
 70
             // Fetch data with custom query
 71
             CustomSqlExecution<MyTestMapper, List<Map<String, Object>>> customSqlExecution =
 72
                     new AbstractCustomSqlExecution<MyTestMapper, List<Map<String, Object>>>(MyTestMapper.cl
 73
 74
                 public List<Map<String, Object>> execute(MyTestMapper customMapper) {
 75
                     return customMapper.selectTaskWithSpecificVariable("myVar");
 76
 77
 78
             };
 79
 80
 81
             List<Map<String, Object>> results = managementService.executeCustomSql(customSqlExecution);
 82
             assertEquals(5, results.size());
 83
             for (int i=0; i<5; i++) {
 84
                 Map<String, Object> result = results.get(i);
 85
                 Long id = Long.valueOf((String) getResultObject("TASKID", result));
 86
                 Long variableValue = null;
 87
                 Object variableObjectValue = getResultObject("VARIABLEVALUE", result);
 88
                 if (variableObjectValue instanceof BigDecimal) { // in oracle it's BigDecimal
 89
                   variableValue = ((BigDecimal)variableObjectValue).longValue();
 90
                 } else {
 91
                    variableValue = (Long) variableObjectValue;
 92
 93
                 assertEquals(id * 2, variableValue.longValue());
 94
 95
 96
             // Cleanup
 97
             for (Task task : taskService.createTaskQuery().list()) {
 98
                 taskService.deleteTask(task.getId());
 99
                 historyService.deleteHistoricTaskInstance(task.getId());
100
101
102
103
104
         protected Object getResultObject(String key, Map<String, Object> result) {
```

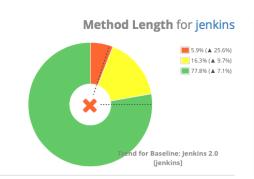
```
57
         public void testFetchTaskWithSpecificVariable() {
 58
 59
             // Create test data
 60
             for (int i=0; i<5; i++) {
61
                 Task task = taskService.newTask();
 62
                 task.setName(i + "");
 63
                 taskService.saveTask(task):
 64
 65
                 taskService.setVariable(task.getId(), "myVar", Long.valueOf(task.getId()) * 2);
 66
                 taskService.setVariable(task.getId(), "myVar2", "SomeOtherValue");
67
 68
69
             // Fetch data with custom query
 70
             CustomSqlExecution<MyTestMapper, List<Map<String, Object>>> customSqlExecution =
71
                     new AbstractCustomSqlExecution<MyTestMapper, List<Map<String, Object>>>(MyTestMapper.cl
72
73
                 public List<Map<String, Object>> execute(MyTestMapper customMapper) {
74
                     return customMapper.selectTaskWithSpecificVariable("myVar");
75
                 }
 76
77
             };
 78
 79
             // Verify
             List<Map<String, Object>> results = managementService.executeCustomSql(customSqlExecution);
81
             assertEquals(5, results.size());
 82
             for (int i=0; i<5; i++) {
83
               Map<String, Object> result = results.get(i);
 84
               Long id = Long.valueOf((String) getResultObject("TASKID", result));
 85
               Long variableValue = ((Number) getResultObject("VARIABLEVALUE", result)).longValue();
               assertEquals(id * 2, variableValue.longValue());
 88
 89
             // Cleanup
             for (Task task : taskService.createTaskQuery().list()) {
91
                 taskService.deleteTask(task.getId());
92
                 historyService.deleteHistoricTaskInstance(task.getId());
93
             }
94
95
96
97
         protected Object getResultObject(String key, Map<String, Object> result) {
98
             Object resultObject = result.get(key);
99
             if (resultObject == null) { // postgresql requires lower case
100
                 resultObject = result.get(key.toLowerCase());
101
102
             return resultObject;
103
```

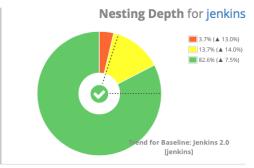


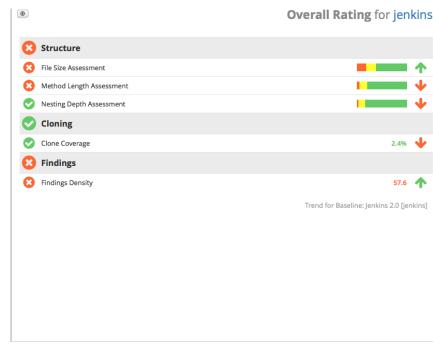
### Baseline-Delta für Jenkins 2.0

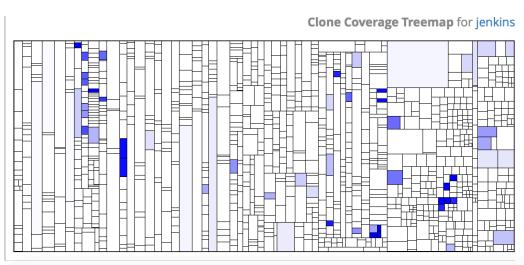














# Probleme schrittweise ausbauen



Project: Activiti Branch: master

**↑** Timetravel: ② Findings at most recent revision

activiti ∧

### 17712 findings in activiti **►** (3 blacklisted)

### Add findings to task

Message	Location	Finding Group	Introduction date
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:256	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:187	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:175	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:74	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:86	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:162	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:146	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:150	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:98	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:272	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:223	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:78	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:219	Documentation / Comment completeness	Jan 26 2016 20:34
Clone with 2 instances of length 12	modules/activiti-engine//impl/RepositoryServiceImpl.java:146-169	Code Duplication / Cloning	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:171	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:90	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:264	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:211	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:231	Documentation / Comment completeness	Jan 26 2016 20:34
Clone with 2 instances of length 12	modules/activiti-engine//impl/RepositoryServiceImpl.java:171-193	Code Duplication / Cloning	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:121	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:82	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:260	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:215	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:183	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:154	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine//impl/RepositoryServiceImpl.java:252	Documentation / Comment completeness	lan 26 2016 20:34

Project: Activiti Branch: master

† Timetravel: ② Findings at most recent revision

activiti 🔨

### 11 findings in activiti since Baseline Release 2.2 (0 blacklisted)

### Add findings to task

Message	Location	Finding Group	Introduction date
Interface comment missing	modules/activiti-engine//impl/TaskQueryImpl.java:455	Documentation / Comment completeness	Feb 01 2017 16:01
Violation of nesting depth threshold of 3.0: 4.0	modules/activiti-engine//task/TaskQueryTest.java:705	Structure / Nesting Depth	Feb 02 2017 16:39
Interface comment missing	modules/activiti-engine//task/TaskQueryTest.java:685	Documentation / Comment completeness	Feb 02 2017 16:39
Interface comment missing	modules/activiti-engine//entity/AttachmentEntityManager.java:44	Documentation / Comment completeness	Jan 04 2017 14:43
Violation of method length threshold (source lines of	modules/activiti-engine//entity/HistoricProcessInstanceEntityManager.java:54-96	Structure / Method Length	Jan 04 2017 14:43
Interface comment missing	modules/activiti-engine//event/AttachmentEventsTest.java:193	Documentation / Comment completeness	Jan 04 2017 14:43
Method throws generic exception of type 'Exception'	modules/activiti-engine//event/AttachmentEventsTest.java:250-273	Code Anomalies / Bad practice	Jan 04 2017 14:43
Method throws generic exception of type 'Exception'	modules/activiti-engine//event/AttachmentEventsTest.java:193-213	Code Anomalies / Bad practice	Jan 04 2017 14:43
Interface comment missing	modules/activiti-engine//event/AttachmentEventsTest.java:250	Documentation / Comment completeness	Jan 04 2017 14:43
Clone with 2 instances of length 11	modules/activiti-engine//event/AttachmentEventsTest.java:199-211	Code Duplication / Cloning	Jan 04 2017 14:43
Clone with 2 instances of length 11	modules/activiti-engine//event/AttachmentEventsTest.java:259-271	Code Duplication / Cloning	Jan 04 2017 14:43



Fixes https://github.com/Activiti/Activiti/issues/1019: taskCandidate cause Referential integrity constraint violation for task with skipExpression by Isabella Wright in revision 15ab72410f151970ef264b0275232b19d6739a2e in branch master (GitHub)

Files: 2 changed Findings: 01 25

Small tweaks to https://github.com/Activiti/Activiti/pull/979: - add 'database' prefix to be consistent with other properties - Created abstract superclas 'AbstractEscapeClauseTestCase', which uses a specific activiti.cfg.xml file, instead of having the default one have the escapeClause setting (only these test should test it) by Isabella Wright in revision d1beda2e181fd1e77499674f320bafaadb73288c in branch master (GitHub)

Files: 14 added, 2 changed, 13 deleted Findings: 08 22 21

- 8 **neue** Defizite
- 2 Defizite in **geändertem** Code
- 1 Defizit aufgeräumt

# Grundsätzlich ja eine schöne Idee, aber...

... bei uns ist das schwierig, weil wir sehr hohen Featureund Zeitdruck haben. ... die Qualitätsprobleme interessieren ja eh niemanden.

... wir haben irgendwo schon so ein statisches Analysewerkzeug. ... wir machen manchmal schon so "Aufräumaktionen".

... unsere Domäne ist deutlich komplexer als andere.

... wir kennen die Probleme ja. ... wir ändern den Code ohnehin nie wieder.

... der Code funktioniert doch.

### Kontakt





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