

Beobachtest du noch oder verbesserst du schon?

Dr. Nils Göde

Dr. Dennis Pagano

Forschung

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



Praxis

- Software Audits
- Kontinuierliche Qualitäts- und Testkontrolle
- Teamscale



Software-Qualität

Anforderungen: Geschäftsprozesse, Funktionen, ...

The collage contains several technical elements:

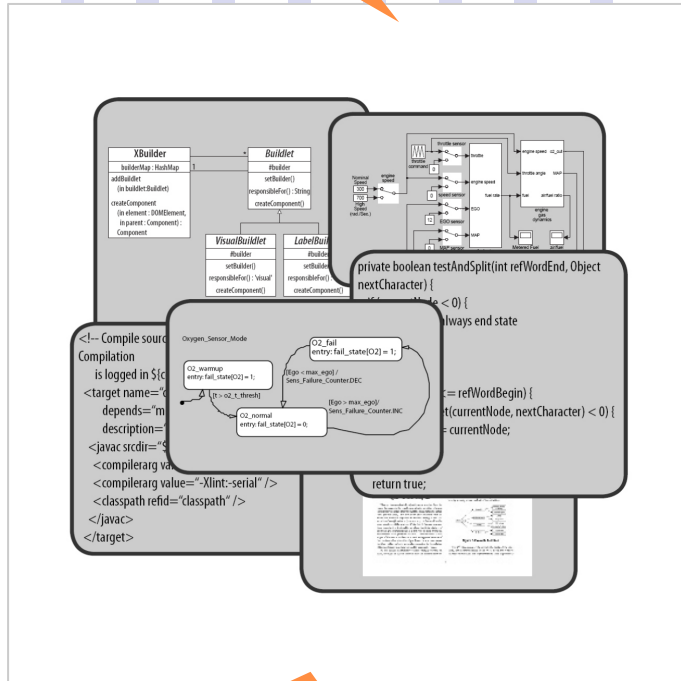
- Class Hierarchy:** A diagram showing classes `XBuilder`, `Builder`, `VisualBuilder`, and `LabelBuilder` with their methods and relationships.
- State Machine:** A state transition diagram for an `Oxygen_Sensor_Mode` with states `O2_normal` and `O2_fail`, and transitions based on sensor readings.
- Code Snippets:**
 - XML target definition for compilation:

```
<!-- Compile source  
Compilation  
is logged in $c  
<target name="c"  
depends="m"  
description="c"  
<javac srcdir="S"  
<compilerarg value="-Xlint:serial" />  
<classpath refid="classpath" />  
</javac>  
</target>
```
 - Java code for `testAndSplit`:

```
private boolean testAndSplit(int refWordEnd, Object  
nextCharacter) {  
...  
return true;  
}
```

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

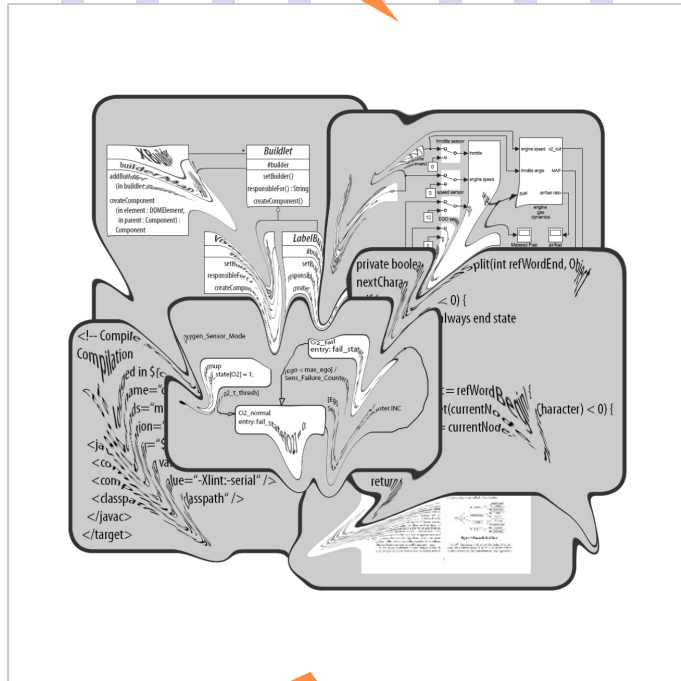
Anforderungen: Geschäftsprozesse, Funktionen, ...



Software-Wartung

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

Anforderungen: Geschäftsprozesse, Funktionen, ...



Software-Wartung

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
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```
2586:     }
2587:     if (arr.length == 2) {
2588:
2589:         // If the returned array is empty
2590:         // we returned from check of arrTypes
2591:         for (int k = 0;
2592:             k < arr.length;
2593:             k++) {
2594:
2595:             // arrTypes, arrTypes + arrTypes, arrTypes
2596:             // arrTypes, arrTypes
2597:             // arrTypes, arrTypes
2598:             // arrTypes, arrTypes
2599:             // arrTypes
2600:         }
2601:     } else {
2602:         logger.fatal(
2603:             "There can only be either "
2604:             + "one or two arrTypes.");
2605:     }
2606: }
2607: }
2608: }
2609: }
2610: } else {
2611:     logger.fatal("Invalid constant: "
2612:                 + "arrTypes, arrTypes");
2613: }
2614: }
2615: }
2616: }
2617: } else {
2618:     logger.fatal("Invalid constant: " + "arrTypes, arrTypes");
2619: }
2620: }
2621: }
2622: return arrTypes;
2623: }
```

...

```
/* Process the input string received prior to the
newline. */
do
{
    /* Pass the string to FreeRTOS+CLI. */
    xMoreDataToFollow = FreeRTOS_CLIProcessCommand( cInputString, cO

    /* Send the output generated by the command's
implementation. */
    sendto( xSocket, cOutputString, strlen( cOutputString ), 0, ( S

} while( xMoreDataToFollow != pdFALSE ); /* Until the command does n

/* 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,

} while( xMoreDataToFollow != pdFALSE ); /* Until the command doe

/* 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 isMatch() ()
623 {
624     return Boolean.TRUE.equals(isMatch()());
625 }
```

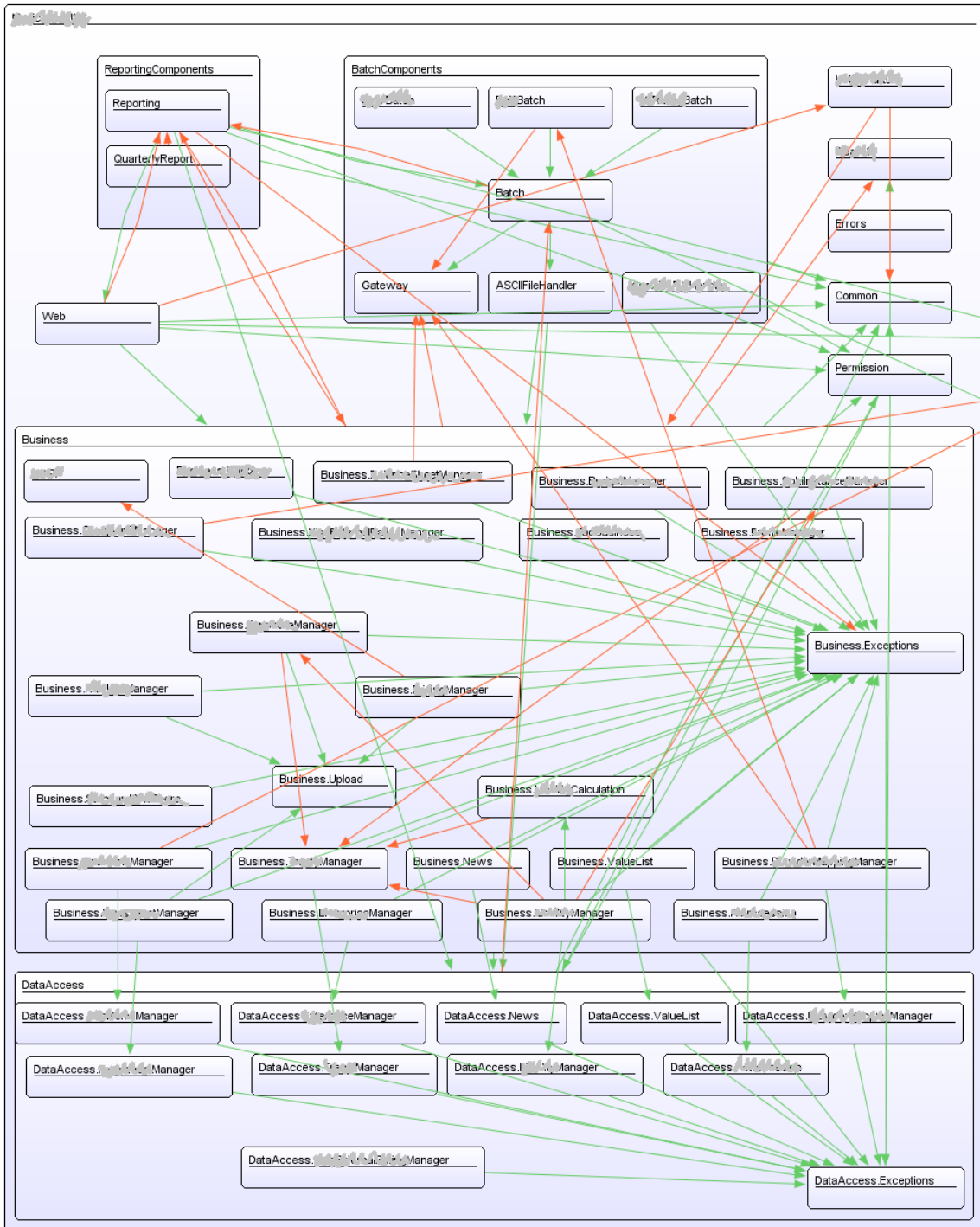
```
626
627 /**
628  *
629  *
```



~~isMatch()~~: Nur mit äußerster Vorsicht benutzen, da dieses Attribut nicht selten via JavaScript gesetzt wird und dies nicht immer korrekt !!!
'~~isMatch()~~' arbeitet zuverlässiger

~~isMatch()~~ (06/2010): so nicht mehr richtig, weil die ~~isMatch()~~ inzwischen ebenfalls eine ~~isMatch()~~ hat.

```
640
641
642
643 public int getMatchCount() ()
644 {
645     return getMatchCount();
646 }
```



Libraries

- Infragistics
- HtmlTidyWrapper
- ICSharpCodeZip
- Microsoft

Default

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;
```

Fotos

```
err = sslRawVerify(ctx,
                  ctx->peerPubKey,
                  dataToSign,
```

```
/* plaintext */
```

SPIEGEL ONLINE

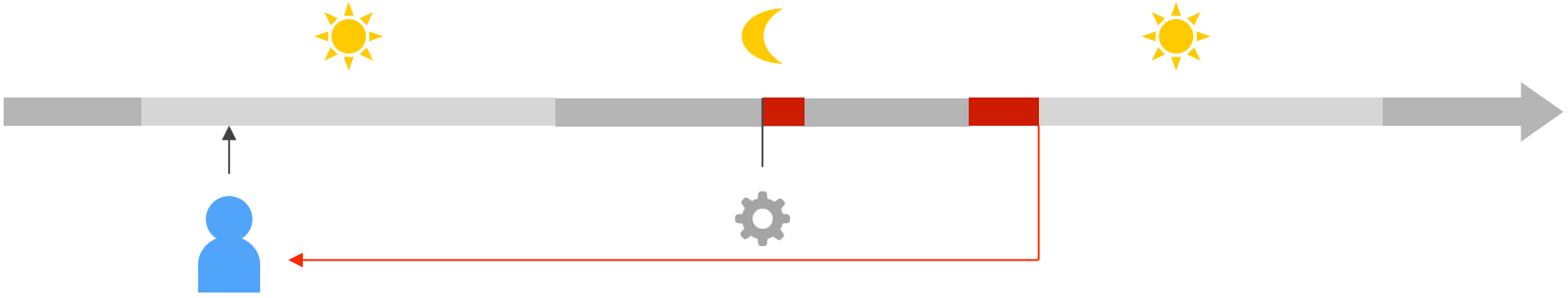
iPhones sind gefährdet, iPads und Mac-Rechner ebenfalls: Der Großteil der Apple-Geräte hat eine gravierende Sicherheitslücke. Für iPhone und iPad gibt es schon Updates, Mac-Nutzer müssen warten und höllisch aufpassen.

Montag, 24.02.2014 - 11:53 Uhr

Drucken | Versenden | Merken

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.

Hier die Antworten auf die wichtigsten Fragen zum Apple-Lock:



**Wie kann man kontinuierliche
Qualitätsverbesserung sinnvoll
durchführen?**

Project: Activiti Branch: master Timetravel: Findings at most recent revision

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

[Add findings to task](#)

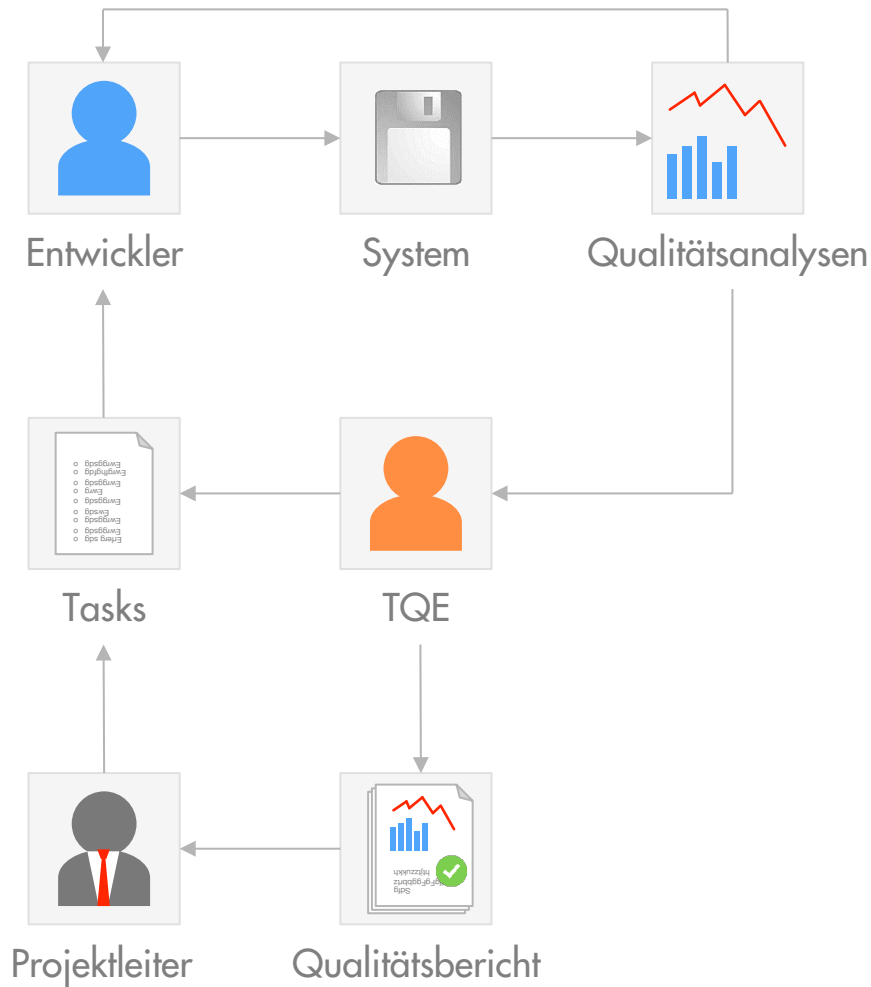
Message	Location	Finding Group	Introduction date
Interface comment missing	modules/activiti-engine/.../impl/RepositoryServiceImpl.java:256	Documentation / Comment completeness	Jan 26 2016 20:34
Interface comment missing	modules/activiti-engine/.../impl/RepositoryServiceImpl.java:187	Documentation / Comment 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
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	Jan 26 2016 20:34





Qualitätsziele





Schnelles Feedback

Unmittelbare Reaktion auf Qualitätsdefizite

Konkrete Verbesserungen

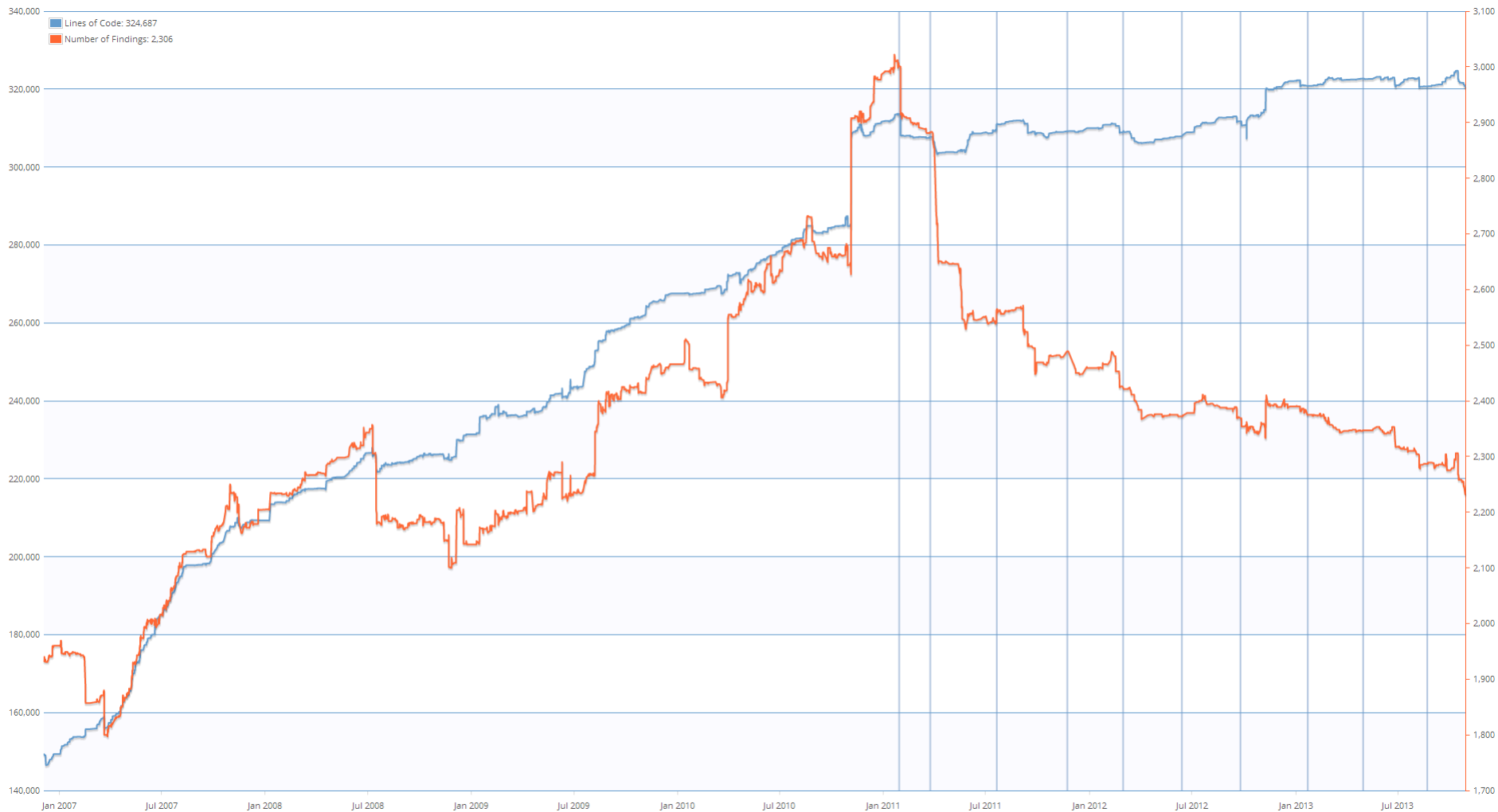
Definition von Tasks

Hohe Transparenz

»Features vs. Qualität«-Entscheidungen

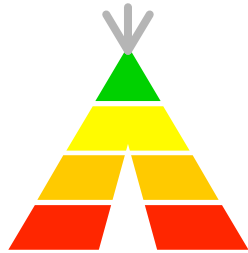


WARNING
BRIGHT LIGHT
- Do not stare into light beam
- Do not view at close range
Failure to do so will cause
permanent eye damage

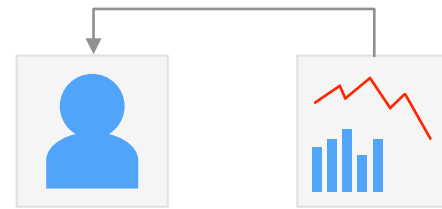


Steidl et. al: Continuous Software Quality Control in Practice,
 IEEE International Conference on Software Maintenance and Evolution (ICSME'14), 2014

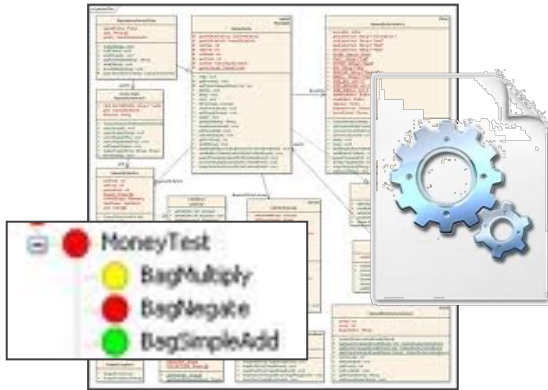
**Wie können Werkzeuge
kontinuierliche
Qualitätsverbesserung
unterstützen?**



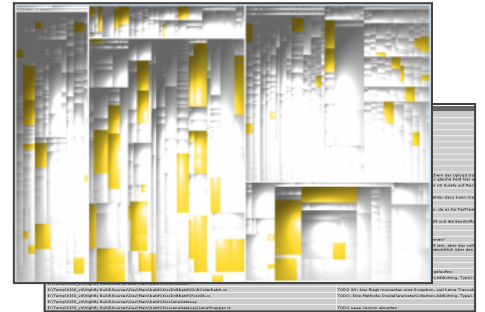
Unterscheidung
zwischen alten und
neuen Problemen



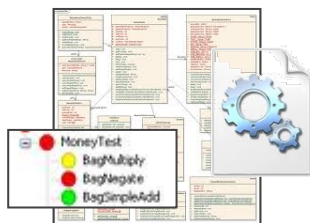
Schnelles,
persönliches
Feedback



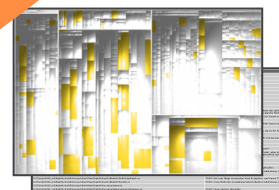
conQAT



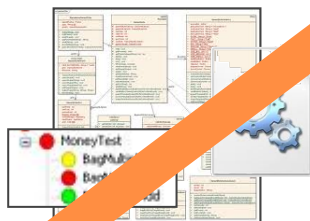
Baseline



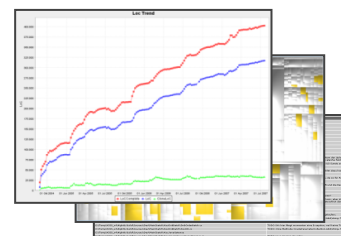
Baseline
Dashboard



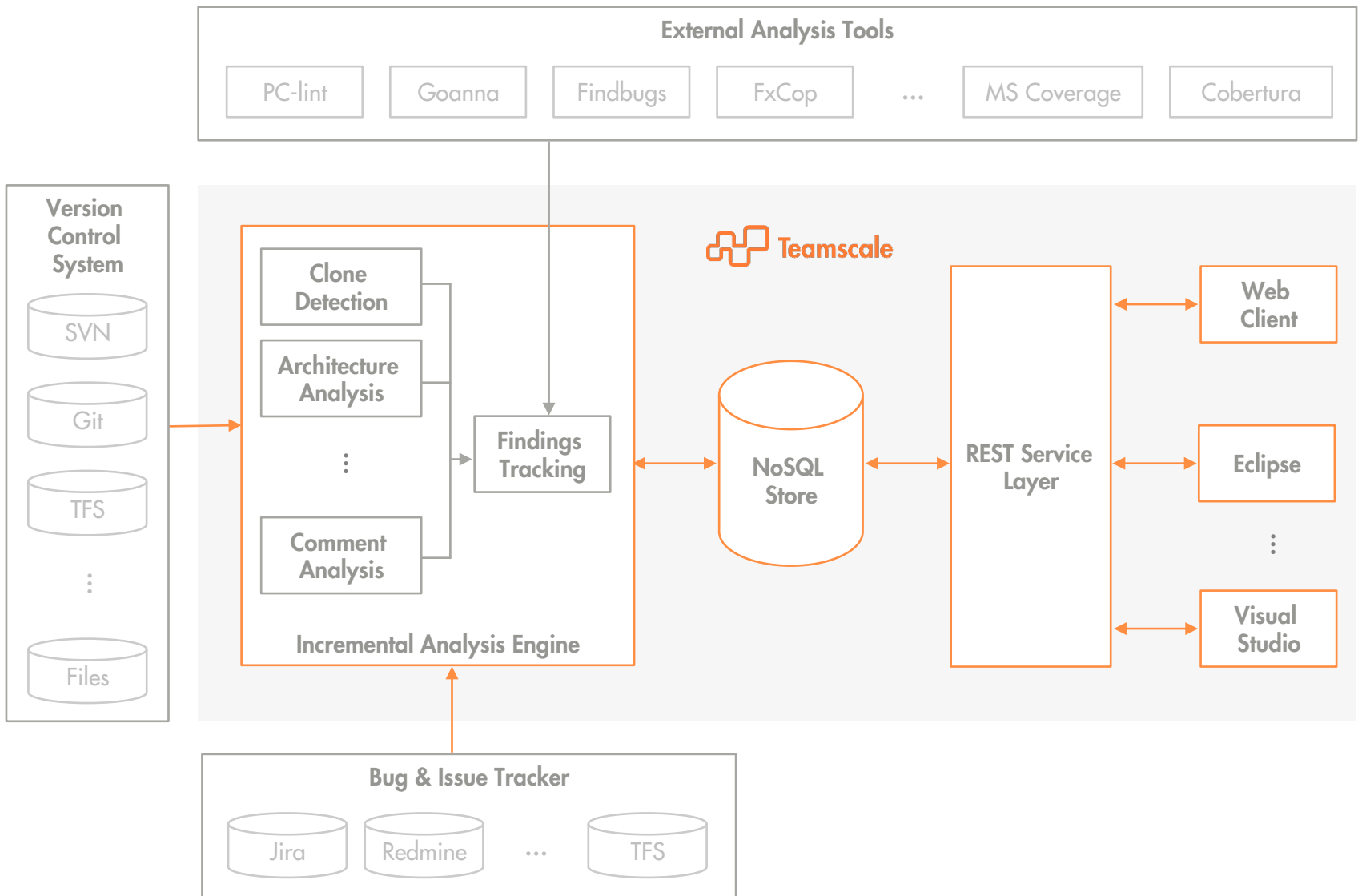
Latest Version



Dashboard
inkl Delta



conDA



Project: cqse All With Branches

Branch: master

Timetravel: All Commits.



Merge remote-tracking branch 'origin/cr/9905'

Oct 20 2016

by [Lars Heinemann](#) in revision [3e9579a715a156d2e629fcb02a44f3c1d3ad0b5b](#) in branch master

14:34

(repository1)

Merged from [cr/9905](#)

Files: 3 changed

Findings: 0



Merge branch 'master' into cr/10552_branch_coverage

Oct 20 2016

by [Benjamin Hummel](#) in revision [25692692f99563e104e167204f860ceec5fa92aa](#) in branch

14:24

cr/10552_branch_coverage (repository1)

Merged from [master](#)

Files: 13 added, 152 changed, 3 deleted

Findings: 59 8 69



CR#9766: reviewed

Oct 20 2016

by [Lars Heinemann](#) in revision [ed133b7b146e1d5051c19995a0be058f48a0c0b9](#) in branch master

14:22

(repository1)

Files: 2 changed

Findings: 8



CR#10552 GREEN (with Thomas)

Oct 20 2016

by [Benjamin Hummel](#) in revision [31b76706e1d6a7600762d5881f5850ef8da06bad](#) in branch

14:19

cr/10552_branch_coverage (repository1)

Files: 7 changed

Findings: 11



CR#0: trying to fix test

Oct 20 2016

by [Lars Heinemann](#) in revision [87d74fd92ba06f9b3f43be63a641008bdf8ed0a1](#) in branch master

13:24

(repository1)

Files: 1 changed

Findings: 0

BusinessRuleTaskXMLConverter.java DefinitionsParser.java

```

model.setTargetNamespace(xtr.getAttributeValue(null, TARGET_NAMESPACE_ATTRIBUTE));
for (int i = 0; i < xtr.getNamespaceCount(); i++) {
    String prefix = xtr.getNamespacePrefix(i);
    if (StringUtils.isNotEmpty(prefix)) {
        model.addNamespace(prefix, xtr.getNamespaceURI(i));
    }
}

for (int i = 0; i < xtr.getAttributeCount(); i++) {
    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	Code Duplica...	Cloning	DefinitionsPa...	47-60
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

by jzieren in revision [e0ca9a51b50c8b01f579f4eef79028bff6c34028](#) (git)

May 26 2005
15:58

1 alerts:

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

2 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 Autho
}

/// <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 decMemo
{
    if (!this.CheckCurrentUserMayProceed(authorityList as AuthorityList))
    {
        throw new AuthorityListException(Error_27, CurrentUserMayNotProceedAut
    }
    if (authorityList.State == AuthorityListState.InProgress)
    {
        DTOComplex decMemoData = this.GetDecMemo(decMemoId, Currency.Neu
        ((IDecMemoState)this).SubmitDecMemo(decMemoId, decMemoData);
        IAuthorityAssignment newActiveAssignment = this.delegateManager.Procee
        return newActiveAssignment;
    }
    else
    {
        return this.delegateManager.Proceed(decMemoId, authorityList as Authorit
    }
}
...

```

```

void IAuthorityListManager.DeactivateAuthority(DecMemoIdentifier decMemo
{
    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<
/// <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
61     for (int i=0; i<5; i++) {
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.class) {
73
74         public List<Map<String, Object>> execute(MyTestMapper customMapper) {
75             return customMapper.selectTaskWithSpecificVariable("myVar");
76         }
77     };
78
79     // Verify
80     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 = null;
86         Object variableObjectValue = getResultObject("VARIABLEVALUE", result);
87         if (variableObjectValue instanceof BigDecimal) { // in oracle it's BigDecimal
88             variableValue = ((BigDecimal)variableObjectValue).longValue();
89         } else {
90             variableValue = (Long) variableObjectValue;
91         }
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.class) {
72
73         public List<Map<String, Object>> execute(MyTestMapper customMapper) {
74             return customMapper.selectTaskWithSpecificVariable("myVar");
75         }
76     };
77
78     // Verify
79     List<Map<String, Object>> results = managementService.executeCustomSql(customSqlExecution);
80     assertEquals(5, results.size());
81     for (int i=0; i<5; i++) {
82         Map<String, Object> result = results.get(i);
83         Long id = Long.valueOf((String) getResultObject("TASKID", result));
84         Long variableValue = ((Number) getResultObject("VARIABLEVALUE", result)).longValue();
85         assertEquals(id * 2, variableValue.longValue());
86     }
87
88     // Cleanup
89     for (Task task : taskService.createTaskQuery().list()) {
90         taskService.deleteTask(task.getId());
91         historyService.deleteHistoricTaskInstance(task.getId());
92     }
93
94 }
95
96 protected Object getResultObject(String key, Map<String, Object> result) {
97     Object resultObject = result.get(key);
98     if (resultObject == null) { // postgresql requires lower case
99         resultObject = result.get(key.toLowerCase());
100     }
101     return resultObject;
102 }
103 }
```

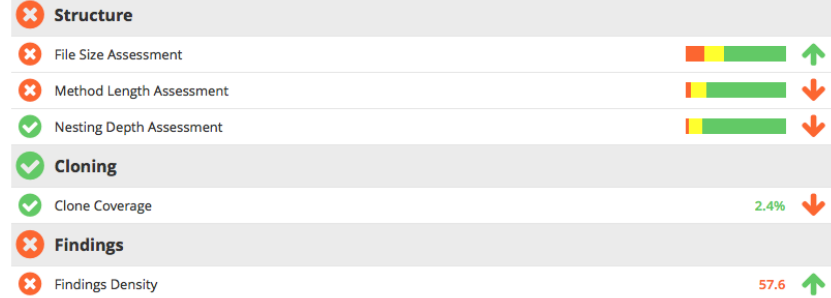
Clone Coverage for jenkins

2.4%
+0.24%

Lines of Code for jenkins

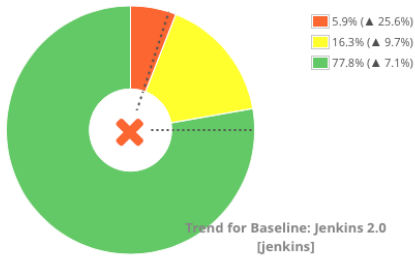
190.3k
+13.5k

Overall Rating for jenkins

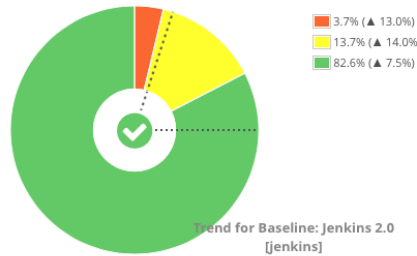


Trend for Baseline: Jenkins 2.0 [jenkins]

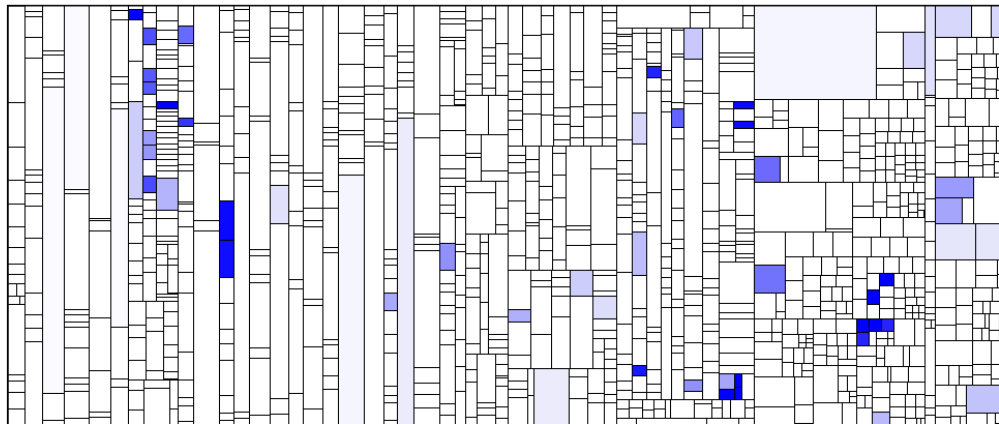
Method Length for jenkins



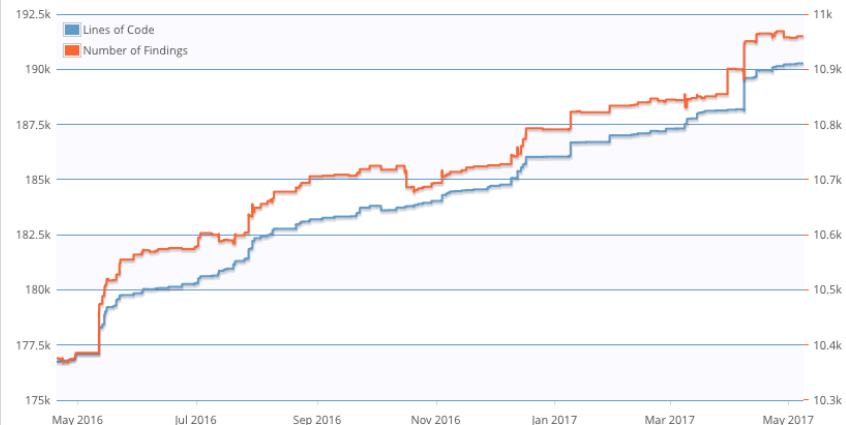
Nesting Depth for jenkins



Clone Coverage Treemap for jenkins



System Size and Findings Trend for jenkins



Probleme schrittweise ausbauen



Project: Activiti Branch: master Timetravel: 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
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	Jan 26 2016 20:34

Project: Activiti Branch: Timetravel: Findings at most recent revision

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

Project: Activiti Branch: master Timetravel: All Commits



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) Sep 13 2016 17:29

Files: 2 changed
Findings: 0 1 5



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) Sep 09 2016 16:39

Files: 14 added, 2 changed, 13 deleted
Findings: 0 8 2 1



- 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 Feature-
und 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 ändern den Code
ohnehin nie wieder.

... wir kennen die
Probleme ja.

... der Code
funktioniert doch.



Kontakt



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