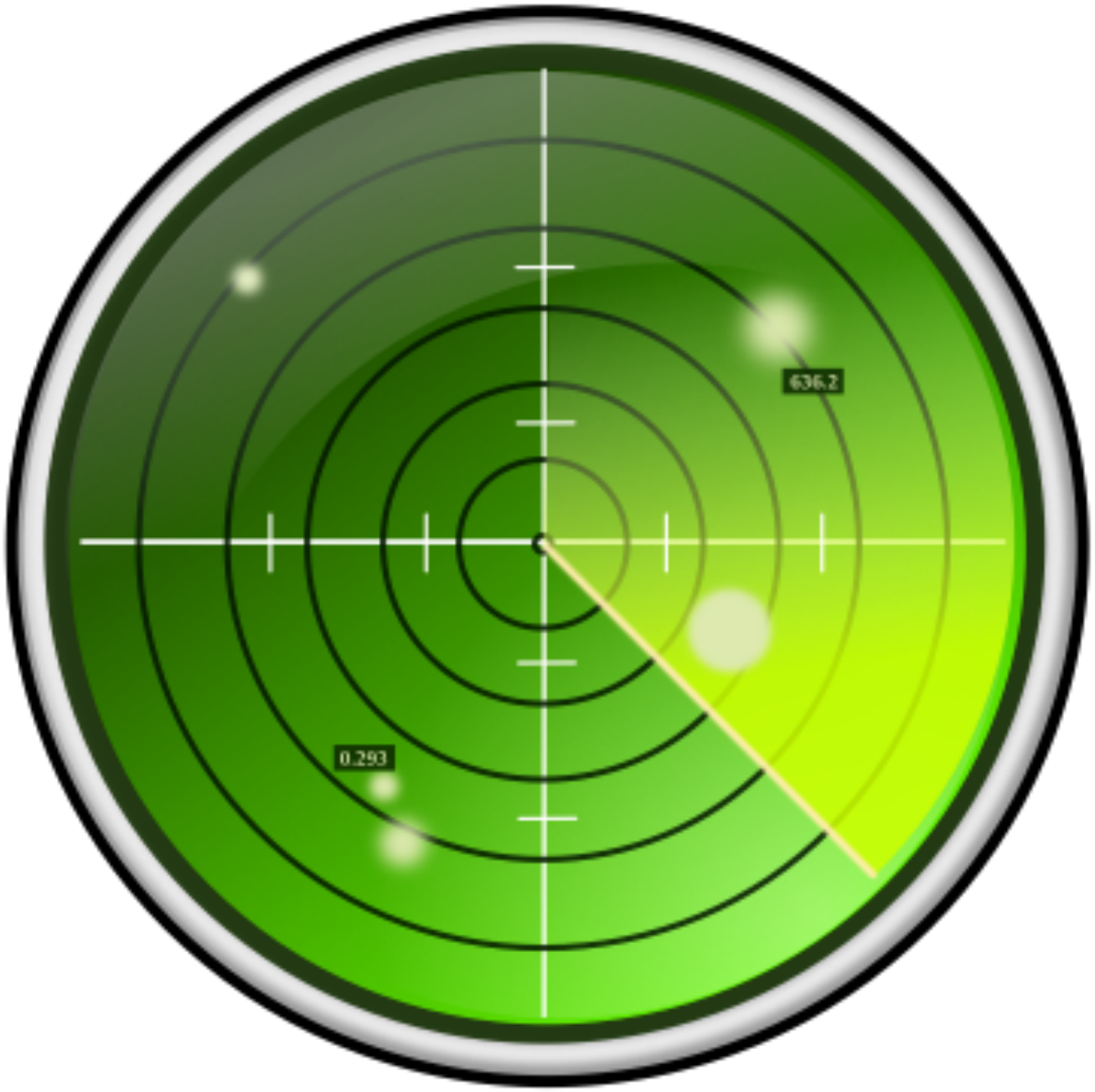

Sonar...

QGL - S13

Philippe Collet

pictures: sxc.hu, pexels, pixabay

POLYTECH NICE SOPHIA | UNIVERSITÉ CÔTE D'AZUR
CC BY NC

Sonar

- Plateforme Web pour gérer la qualité du code
    - Gérée par la société SonarSource depuis 2008

- SonarSource : outil commercial
- SonarQube : version Open-Source by SonarSource

Objectifs

- Fournir une analyse complète de la qualité d'un projet de développement à partir de métriques
- Evaluer la qualité du code
- En connaître l'évolution au cours du développement

Dashboard...

https://sonarcloud.io/dashboard?id=brave_brave-core

Brave Software / brave-core master

January 23, 2021, 1:07 PM Version not provided

Overview Issues Security Hotspots Measures Code Activity

Quality Gate Passed

Reliability Measures

	New code: last 30 days
38 D Bugs	0 A New Bugs

started 10 months ago

Security Measures

		New code: last 30 days	
0 A Vulnerabilities	29 D Security Hotspots	0 A New Vulnerabilities	0 A New Security Hotspots

Maintainability Measures

		New code: last 30 days	
8d A Debt	445 Code Smells	20min A New Debt	4 New Code Smells

Duplications Measures

		New code: last 30 days
1.1% Duplications	43 Duplicated Blocks	0.09% Duplications on 2.1k New Lines

About This Project

No tags

M 57k
Lines of Code

TypeScript	26k
XML	11k
Python	7.4k
JavaScript	6.2k
CSS	2.4k
HTML	2.3k
Swift	699

Project Activity

January 23, 2021, 1:07 PM
not provided

January 23, 2021, 11:35 AM
Project Analyzed

January 22, 2021, 8:20 PM
Project Analyzed

Show More

Quality Gate

(Default) Sonar way

Sizing

https://sonarcloud.io/dashboard?id=brave_brave-core

Brave Software / brave-core master

January 23, 2021, 1:07 PM Version not provided

Overview | Issues | Security Hotspots | Measures | Code | Activity

Quality Gate **Passed**

Reliability Measures

	New code: last 30 days
38 D — Bugs	0 A — New Bugs

started 10 months ago

Security Measures

		New code: last 30 days	
0 A — Vulnerabilities	29 D — Security Hotspots	0 A — New Vulnerabilities	0 A — New Security Hotspots

Maintainability Measures

		New code: last 30 days	
8d A — Debt	445 — Code Smells	20min A — New Debt	4 — New Code Smells

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Project Activity

January 23, 2021, 1:07 PM
not provided

January 23, 2021, 11:35 AM
Project Analyzed

January 22, 2021, 8:20 PM
Project Analyzed

Show More

Quality Gate

(Default) Sonar way

https://sonarcloud.io/dashboard?id=brave_brave-core

Bugs

Brave Software / brave-core | master

January 23, 2021, 1:07 PM Version not provided

Overview | Issues | Security Hotspots | Measures | Code | Activity

Quality Gate **Passed**

Reliability Measures

	New code: last 30 days
38 D Bugs	0 A New Bugs

started 10 months ago

Security Measures

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0 A Vulnerabilities	29 D Security Hotspots	0 A New Vulnerabilities	0 A New Security Hotspots

Maintainability Measures

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Swift	699

Project Activity

January 23, 2021, 1:07 PM
not provided

January 23, 2021, 11:35 AM
Project Analyzed

January 22, 2021, 8:20 PM
Project Analyzed

Show More

Quality Gate

(Default) Sonar way

Bugs

The Apache Software Foundation / Struts 2 master

January 23, 2021, 6:25 PM Version 2.6-SNAPSHOT

Overview Issues Security Hotspots Measures Code Activity

Filters Clear All Filters

Type BUG Clear

- Bug 185
- Vulnerability 117
- Code Smell 6.9k

⌘ + click to add to selection

Severity

- Blocker 7
- Critical 1
- Major 138
- Minor 39
- Info 0

Resolution

Status

Security Category

Creation Date

Language

Rule

Tag

Directory

File

Assignee

↑ ↓ to select issues ← → to navigate 1 / 185 issues 3d 6h effort

core/.../java/com/opensymphony/xwork2/ActionChainResult.java

Change this condition so that it does not always evaluate to "false" Why is this an issue? 6 years ago L264

Bug Major Open Not assigned 15min effort — No tags

core/.../java/com/opensymphony/xwork2/CompositeTextProvider.java

Use another way to initialize this instance. Why is this an issue? 11 years ago L118

Bug Minor Open Not assigned 5min effort — leak

core/.../java/com/opensymphony/xwork2/DefaultActionInvocation.java

Change this condition so that it does not always evaluate to "false" Why is this an issue? 11 years ago L307

Bug Major Open Not assigned 15min effort — No tags

Change this condition so that it does not always evaluate to "true" Why is this an issue? 11 years ago L317

Bug Major Open Not assigned 15min effort — No tags

core/.../xwork2/config/impl/DefaultConfiguration.java

Make this method "synchronized" to match the parent class implementation. Why is this an issue? 11 years ago L530

Bug Major Open Not assigned 20min effort — cert, multi-threading

core/.../xwork2/config/impl/LocatableFactory.java

Use another way to initialize this instance. Why is this an issue? 11 years ago L68

Bug Minor Open Not assigned 5min effort — leak

core/.../xwork2/conversion/impl/XWorkConverter.java

"clazz" is a method parameter, and should not be used for synchronization. Why is this an issue? 3 years ago L432

Bug Major Open Not assigned 15min effort — cert, cwe, multi-threading

core/.../com/opensymphony/xwork2/inject/ContainerBuilder.java

Use another way to initialize this instance. Why is this an issue? 11 years ago L176

Bug Minor Open Not assigned 5min effort — leak

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

https://sonarcloud.io/dashboard?id=jhipster-sample-application

Overview | Issues | Security Hotspots | Measures | Code | Activity

Security issues

Quality Gate — Failed

77.24%	Coverage on New Code is less than 80.0%
3.55%	Duplicated Lines (%) on New Code is greater than 3.0%

Reliability Measures

0 A	Bugs	started last year
0 A	New Bugs	New code: last 30 days

Security Measures

1 E	Vulnerabilities
8 E	Security Hotspots
0 A	New Vulnerabilities
0 A	New Security Hotspots

Maintainability Measures

6d A	Debt
172	Code Smells
0 A	New Debt
0	New Code Smells

Coverage Measures

76.5%	Coverage
1.2k	Unit Tests
77.24%	Coverage on 5.9k New Lines to Cover

Duplications Measures

2.1%	Duplications
104	Duplicated Blocks
3.55%	Duplications on 39k New Lines

About This Project

No tags

M 88k Lines of Code

HTML	31k
Java	29k
TypeScript	24k
XML	4.4k
CSS	98

Project Activity

January 24, 2021, 1:38 PM 1.0

January 24, 2021, 2:42 AM Project Analyzed

January 23, 2021, 10:40 PM Project Analyzed

Show More

Quality Gate

(Default) Sonar way

Quality Profiles

(CSS) Sonar way
(Java) Sonar way
(TypeScript) Sonar way
(HTML) Sonar way
(XML) Sonar way

Project Key

jhipster-sample-application Copy

Organization Key

jhipster Copy

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

https://sonarcloud.io/dashboard?id=jhipster-sample-application

Overview | Issues | Security Hotspots | Measures | Code | Activity

Dette technique

Quality Gate — Failed

77.24%	Coverage on New Code is less than 80.0%
3.55%	Duplicated Lines (%) on New Code is greater than 3.0%

Reliability — Measures

		New code: last 30 days
0 A	Bugs	0 A New Bugs

started last year

Security — Measures

1 E	Vulnerabilities	8 E Security Hotspots	0 A New Vulnerabilities	0 A New Security Hotspots

Maintainability — Measures

6d A	Debt	172 Code Smells	0 A New Debt	0 New Code Smells

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January 24, 2021, 1:38 PM
1.0

January 24, 2021, 2:42 AM
Project Analyzed

January 23, 2021, 10:40 PM
Project Analyzed

Show More

Quality Gate

(Default) Sonar way

Quality Profiles

(CSS) Sonar way
(Java) Sonar way
(TypeScript) Sonar way
(HTML) Sonar way
(XML) Sonar way

Project Key

jhipster-sample-application Copy

Organization Key

jhipster Copy

Dette technique

jhipster / jhipsterSampleApplication generated by jhipster main

January 24, 2021, 1:38 PM Version 1.0

Overview Issues Security Hotspots Measures Code Activity

Project Overview

- Releasability
- Reliability
- Security
- Security Review
- Maintainability TECHNICAL DEBT

Overview

On new code

Code Smells	0
Debt	0
Debt Ratio	0.0%
Rating	A

Overall

Code Smells	172
Debt	6d 2h
Debt Ratio	0.1%
Rating	A
Effort to Reach A	0

- Coverage
- Duplications
- Size
- Complexity
- Issues

jhipsterSampleApplication gene... View as List ↑ ↓ to select files ← → to navigate 1,424 files

Technical Debt: 6d 2h

New code: last 30 days

src/main/java/tech/jhipster/sample/web/rest/errors/EmailAlreadyUsedException.java	5h
src/main/java/tech/jhipster/sample/web/rest/errors/LoginAlreadyUsedException.java	5h
src/main/java/tech/jhipster/sample/web/rest/errors/BadRequestAlertException.java	4h 30min
src/main/java/tech/jhipster/sample/web/rest/errors/InvalidPasswordException.java	4h 30min
src/main/java/tech/jhipster/sample/config/CacheConfiguration.java	1h 45min
src/main/java/tech/jhipster/sample/web/rest/FieldTestEntityResource.java	1h 45min
src/main/java/tech/jhipster/sample/web/rest/FieldTestInfiniteScrollEntityResource.java	1h 43min
src/main/java/tech/jhipster/sample/web/rest/FieldTestPaginationEntityResource.java	1h 43min
src/main/java/tech/jhipster/sample/service/FieldTestMapstructAndServiceClassEntityService.java	1h 40min
src/main/java/tech/jhipster/sample/service/FieldTestServiceClassAndJpaFilteringEntityService.java	1h 40min
src/main/java/tech/jhipster/sample/service/impl/FieldTestServiceImplEntityServiceImpl.java	1h 40min
src/main/java/tech/jhipster/sample/service/dto/TestMapstruct.java	1h 30min
src/main/java/tech/jhipster/sample/service/FieldTestServiceClassAndJpaFilteringEntityQueryService.java	1h 9min
src/main/java/tech/jhipster/sample/service/mapper/UserMapper.java	1h
src/main/java/tech/jhipster/sample/service/dto/FieldTestServiceClassAndJpaFilteringEntityCriteria.java	50min
src/main/java/tech/jhipster/sample/domain/TestInfiniteScrollEntity.java	40min
src/main/java/tech/jhipster/sample/domain/TestPaginationEntity.java	40min
src/main/java/tech/jhipster/sample/domain/TestServiceClassEntity.java	40min
src/main/java/tech/jhipster/sample/domain/TestServiceImplEntity.java	40min

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

https://sonarcloud.io/dashboard?id=jhipster-sample-application

Overview | Issues | Security Hotspots | Measures | Code | Activity

Code smells

Quality Gate Failed

77.24%	Coverage on New Code is less than 80.0%
3.55%	Duplicated Lines (%) on New Code is greater than 3.0%

Reliability Measures

	New code: last 30 days
0 A Bugs (started last year)	0 A New Bugs

Security Measures

		New code: last 30 days	
1 E Vulnerabilities	8 E Security Hotspots	0 A New Vulnerabilities	0 A New Security Hotspots

Maintainability Measures

		New code: last 30 days	
6d A Debt	172 Code Smells	0 A New Debt	0 New Code Smells

Coverage Measures

		New code: last 30 days
76.5% Coverage	1.2k Unit Tests	77.24% Coverage on 5.9k New Lines to Cover

Duplications Measures

		New code: last 30 days
2.1% Duplications	104 Duplicated Blocks	3.55% Duplications on 39k New Lines

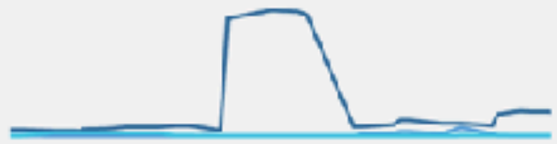
About This Project

No tags

M 88k Lines of Code

HTML	31k
Java	29k
TypeScript	24k
XML	4.4k
CSS	98

Project Activity



January 24, 2021, 1:38 PM
1.0

January 24, 2021, 2:42 AM
Project Analyzed

January 23, 2021, 10:40 PM
Project Analyzed

Show More

Quality Gate
(Default) Sonar way

Quality Profiles
(CSS) Sonar way
(Java) Sonar way
(TypeScript) Sonar way
(HTML) Sonar way
(XML) Sonar way

Project Key
jhipster-sample-application Copy

Organization Key
jhipster Copy

jhipster / jhipsterSampleApplication generated by jhipster mai

Blocker level

January 24, 2021, 1:38 PM Version 1.0

Overview Issues Security Hotspots Measures Code Activity

Filters Clear All Filters

Type CODE SMELL Clear

- Bug 0
- Vulnerability 1
- Code Smell 20

⌘ + click to add to selection

Severity BLOCKER Clear

- Blocker 20
- Minor 74
- Critical 26
- Info 0
- Major 52

⌘ + click to add to selection

- Resolution
- Status
- Security Category
- Creation Date
- Language
- Rule
- Tag
- Directory
- File
- Assignee

↑ ↓ to select issues ← → to navigate 1 / 20 issues 1h 40min effort

Add some tests to this class. Why is this an issue? last month L8
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityCustomIdDTOMapsIdMapperTest.java

Add some tests to this class. Why is this an issue? last month L8
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityCustomIdDTORelMapperTest.java

Add some tests to this class. Why is this an issue? last month L8
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityUuidIdDTOMapperTest.java

Add some tests to this class. Why is this an issue? last month L9
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityUuidIdDTOMapsIdMapperTest.java

Add some tests to this class. Why is this an issue? last month L9
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityUuidIdDTORelMapperTest.java

Add some tests to this class. Why is this an issue? last month L9
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityWithDTOMapperTest.java

Add some tests to this class. Why is this an issue? 3 months ago L8
Code Smell Blocker Open Not assigned 5min effort No tags

src/.../hipster/sample/service/mapper/EntityWithPaginationAndDTOMapperTest.java

Add some tests to this class. Why is this an issue? 3 months ago L8
Code Smell Blocker Open Not assigned 5min effort No tags

Critical level

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

Overview | Issues | Security Hotspots | Measures | Code | Activity

Filters Clear All Filters

Type CODE SMELL Clear

- Bug
- Vulnerability
- Code Smell 26

⌘ + click to add to selection

Severity CRITICAL Clear

- Blocker 60
- Minor 74
- Critical 26
- Info
- Major 52

⌘ + click to add to selection

- Resolution
- Status
- Security Category
- Creation Date
- Language
- Rule
- Tag
- Directory
- File
- Assignee

↑ ↓ to select issues ← → to navigate 1 / 26 issues 2d effort

src/.../tech/jhipster/sample/config/CacheConfiguration.java

Define a constant instead of duplicating this literal ".testManyToOnes" 6 times. Why is this an issue? last month L60
Code Smell Critical Open Not assigned 14min effort No tags

Define a constant instead of duplicating this literal ".testManyToManies" 6 times. Why is this an issue? last month L61
Code Smell Critical Open Not assigned 14min effort No tags

Define a constant instead of duplicating this literal ".userManyToManies" 7 times. Why is this an issue? last month L62
Code Smell Critical Open Not assigned 16min effort No tags

Define a constant instead of duplicating this literal ".manyToOneBacks" 4 times. Why is this an issue? last month L131
Code Smell Critical Open Not assigned 10min effort No tags

Define a constant instead of duplicating this literal ".manyToManyBacks" 4 times. Why is this an issue? last month L132
Code Smell Critical Open Not assigned 10min effort No tags

Define a constant instead of duplicating this literal ".manyToOneMapsIdBacks" 4 times. Why is this an issue? last month L134
Code Smell Critical Open Not assigned 10min effort No tags

Define a constant instead of duplicating this literal ".manyToManyMapsIdBacks" 4 times. Why is this an issue? last month L135
Code Smell Critical Open Not assigned 10min effort No tags

Define a constant instead of duplicating this literal ".manyToManies" 5 times. Why is this an issue? last month L137
Code Smell Critical Open Not assigned 12min effort No tags

Define a constant instead of duplicating this literal ".manyToManyMapsIds" 4 times. Why is this an issue? last month L138
Code Smell Critical Open Not assigned 10min effort No tags

src/.../tech/jhipster/sample/service/BankAccountQueryService.java

Refactor this method to reduce its Cognitive Complexity from 31 to the 15 allowed. Why is this an issue? last year L76
Code Smell Critical Open Not assigned 21min effort No tags

src/.../tech/jhipster/sample/service/FieldTestMapstructAndServiceClassEntityService.java

Refactor this method to reduce its Cognitive Complexity from 110 to the 15 allowed. Why is this an issue? 4 months ago L59
Code Smell Critical Open Not assigned 1h40min effort No tags

Proposition de correction

jhipster / jhipsterSampleApplication generated by jhipster main

Overview Issues Security Hotspots Measures Code Activity

10 / 26 issues

...ter/sample/config/CacheConfiguration.java

Define a constant instead of duplicating this literal ".testManyToOnes" 6 times.
Code Smell +6

Define a constant instead of duplicating this literal ".testManyToManies" 6 times.
Code Smell +6

Define a constant instead of duplicating this literal ".userManyToManies" 7 times.
Code Smell +7

Define a constant instead of duplicating this literal ".manyToOneBacks" 4 times.
Code Smell +4

Define a constant instead of duplicating this literal ".manyToManyBacks" 4 times.
Code Smell +4

Define a constant instead of duplicating this literal ".manyToOneMapsIdBacks" 4 times.
Code Smell +4

Define a constant instead of duplicating this literal ".manyToManyMapsIdBacks" 4 times.
Code Smell +4

Define a constant instead of duplicating this literal ".manyToManies" 5 times.
Code Smell +5

Define a constant instead of

jhipsterSampleApplication generated by jhipster src/main/java/tech/jhipster/sample/service/BankAccountQueryService.java See all issues in this file

```
73 …    /**
74       * Function to convert {@link BankAccountCriteria} to a {@link Specification}
75       * @param criteria The object which holds all the filters, which the entities should match.
76       * @return the matching {@link Specification} of the entity.
77       */
78      protected Specification<BankAccountEntity> createSpecification(BankAccountCriteria criteria) {
```

Refactor this method to reduce its Cognitive Complexity from 31 to the 15 allowed. Why is this an issue? last year ▾ L78
Code Smell Critical Open Not assigned 21min effort No tags

```
79          Specification<BankAccountEntity> specification = Specification.where(null);
80      1   if (criteria != null) {
81      2       if (criteria.getId() != null) {
82              specification = specification.and(buildRangeSpecification(criteria.getId(), BankAccountEntity_.id));
83          }
84      3       if (criteria.getName() != null) {
85              specification = specification.and(buildStringSpecification(criteria.getName(), BankAccountEntity_.nam
86          }
87      4       if (criteria.getGuid() != null) {
88              specification = specification.and(buildSpecification(criteria.getGuid(), BankAccountEntity_.guid));
89          }
90      5       if (criteria.getBankNumber() != null) {
91              specification = specification.and(buildRangeSpecification(criteria.getBankNumber(), BankAccountEntity
92          }
93      6       if (criteria.getAgencyNumber() != null) {
94              specification = specification.and(buildRangeSpecification(criteria.getAgencyNumber(), BankAccountEnti
95          }
96      7       if (criteria.getLastOperationDuration() != null) {
97              specification =
98                  specification.and(
99                      buildRangeSpecification(criteria.getLastOperationDuration(), BankAccountEntity_.lastOperation
100                 );
101         }
102     8       if (criteria.getMeanOperationDuration() != null) {
103             specification =
104                 specification.and(
105                     buildRangeSpecification(criteria.getMeanOperationDuration(), BankAccountEntity_.meanOperation
106                 );
107         }
108     9       if (criteria.getMeanQueueDuration() != null) {
109             specification =
110                 specification.and(buildRangeSpecification(criteria.getMeanQueueDuration(), BankAccountEntity_.mea
111         }
112     10      if (criteria.getBalance() != null) {
```

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

https://sonarcloud.io/dashboard?id=jhipster-sample-application

Overview Issues Security Hotspots Measures Code Activity

Test coverage

Quality Gate Failed

77.24%	Coverage on New Code is less than 80.0%
3.55%	Duplicated Lines (%) on New Code is greater than 3.0%

Reliability Measures

started last year

0 A	Bugs	New code: last 30 days
0 A		New Bugs

Security Measures

1 E	Vulnerabilities	8 E	Security Hotspots	New code: last 30 days
0 A		0 A		New Vulnerabilities / New Security Hotspots

Maintainability Measures

6d A	Debt	172	Code Smells	New code: last 30 days
0 A		0		New Debt / New Code Smells

Coverage Measures

76.5%	Coverage	1.2k	Unit Tests	New code: last 30 days
77.24%				Coverage on 5.9k New Lines to Cover

Duplications Measures

2.1%	Duplications	104	Duplicated Blocks	New code: last 30 days
3.55%				Duplications on 39k New Lines

About This Project

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HTML	31k
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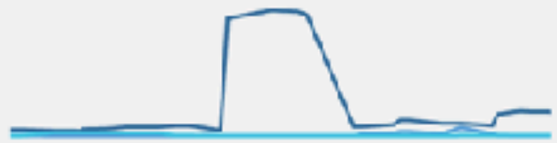
TypeScript	24k
XML	4.4k
CSS	98

Project Activity



January 24, 2021, 1:38 PM
1.0

January 24, 2021, 2:42 AM
Project Analyzed

January 23, 2021, 10:40 PM
Project Analyzed

Show More

Quality Gate

(Default) Sonar way

Quality Profiles

(CSS) Sonar way
(Java) Sonar way
(TypeScript) Sonar way
(HTML) Sonar way
(XML) Sonar way

Project Key

jhipster-sample-application Copy

Organization Key

jhipster Copy

Test coverage

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

Overview Issues Security Hotspots Measures Code Activity

Project Overview

- **Releasability**
- **Reliability**
- **Security**
- **Security Review**
- **Maintainability**
- **Coverage** COVERAGE

Overview

On new code

Coverage	77.2%
Lines to Cover	5,857
Uncovered Lines	804
Line Coverage	86.3%
Conditions to Cover	2,495
Uncovered Conditions	1,097
Condition Coverage	56.0%

Overall

Coverage	76.5%
Lines to Cover	19,807
Uncovered Lines	3,458
Line Coverage	82.5%
Conditions to Cover	5,745
Uncovered Conditions	2,649
Condition Coverage	55.6%

Tests

Unit Tests	1,245
Errors	0
Failures	0
Skipped	0
Success	100%
Duration	29s

jhipsterSampleApplication gene... View as List ↑ ↓ to select files ← → to navigate 745 files

Coverage 76.5%

New code: last 30 days

	Coverage	Uncovered Lines	Uncovered Conditions
src/main/webapp/app/account/account.route.ts	0.0%	2	–
src/main/webapp/app/account/activate/activate.route.ts	0.0%	1	–
src/main/webapp/app/layouts/navbar/active-menu.directive.ts	0.0%	6	–
src/main/webapp/app/app-routing.module.ts	0.0%	1	–
src/main/webapp/app/app.module.ts	0.0%	5	–
src/main/java/tech/jhipster/sample/ApplicationWebXml.java	0.0%	3	–
src/main/webapp/app/core/interceptor/auth-expired.interceptor.ts	0.0%	5	–
src/main/webapp/app/core/interceptor/auth.interceptor.ts	0.0%	6	–
src/main/webapp/app/entities/test-root/bank-account-my-suffix/route/bank-account-my-suffix-routing.module.ts	0.0%	1	–
src/main/webapp/app/admin/configuration/configuration.route.ts	0.0%	1	–
src/main/webapp/app/config/datepicker-adapter.ts	0.0%	4	–
src/main/webapp/app/config/dayjs.ts	0.0%	3	–
src/main/webapp/app/entities/test-root/division/route/division-routing.module.ts	0.0%	1	–
src/main/webapp/app/admin/docs/docs.route.ts	0.0%	1	–
src/main/webapp/app/shared/date/duration.pipe.ts	0.0%	3	–
src/main/webapp/app/entities/entity-custom-id-dto-maps-id/route/entity-custom-id-dto-maps-id-routing.module.ts	0.0%	1	–
src/main/webapp/app/entities/entity-custom-id-dto-rel/route/entity-custom-id-dto-rel-routing.module.ts	0.0%	1	–
src/main/webapp/app/entities/entity-custom-id-dto/route/entity-custom-id-dto-routing.module.ts	0.0%	1	–
src/main/webapp/app/entities/entity-custom-id-maps-id/route/entity-custom-id-maps-id-routing.module.ts	0.0%	1	–
src/main/webapp/app/entities/entity-custom-id-relationship/route/entity-custom-id-relationship-routing.module.ts	0.0%	1	–
src/main/webapp/app/entities/entity-custom-id/route/entity-custom-id-routing.module.ts	0.0%	1	–

jhipster / jhipsterSampleApplication generated by jhipster | main

January 24, 2021, 1:38 PM Version 1.0

https://sonarcloud.io/dashboard?id=jhipster-sample-application

Overview | Issues | Security Hotspots | Measures | Code | Activity

Duplication

Quality Gate — Failed

77.24%	Coverage on New Code is less than 80.0%
3.55%	Duplicated Lines (%) on New Code is greater than 3.0%

Reliability Measures

0 A	Bugs	started last year
0 A	New Bugs	New code: last 30 days

Security Measures

1 E	Vulnerabilities
8 E	Security Hotspots
0 A	New Vulnerabilities
0 A	New Security Hotspots

Maintainability Measures

6d A	Debt
172	Code Smells
0 A	New Debt
0	New Code Smells

Coverage Measures

76.5%	Coverage
1.2k	Unit Tests
77.24%	Coverage on 5.9k New Lines to Cover

Duplications Measures

2.1%	Duplications
104	Duplicated Blocks
3.55%	Duplications on 39k New Lines

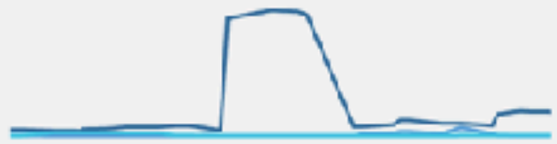
About This Project

No tags

M 88k Lines of Code

HTML	31k
Java	29k
TypeScript	24k
XML	4.4k
CSS	98

Project Activity



January 24, 2021, 1:38 PM
1.0

January 24, 2021, 2:42 AM
Project Analyzed

January 23, 2021, 10:40 PM
Project Analyzed

Show More

Quality Gate

(Default) Sonar way

Quality Profiles

(CSS) Sonar way
(Java) Sonar way
(TypeScript) Sonar way
(HTML) Sonar way
(XML) Sonar way

Project Key

jhipster-sample-application Copy

Organization Key

jhipster Copy

Structure

- un runner, qui lance des analyse et compile les résultats
  - Plugin maven, plugin gradle, etc.
  - Runner stand-alone en Java
    - **Attention, tant que le runner n'est pas de nouveau exécuté, la BD n'est pas mise à jour**
- une base de données, qui stocke les analyses des projets étudiés
- un serveur web pour consulter les données
  - Par défaut : http://localhost:9000

Installations possibles

- Avec Docker (système de containers légers, incontournable actuellement)

```
docker run -d --name sonarqube -p 9000:9000 sonarqube
```

  - (lancement de la dernière image sonarqube = « **latest** » image)
  - Plus d'info : https://hub.docker.com/_/sonarqube/

- Installation stand-alone de SonarQube
  - https://docs.sonarqube.org/latest/setup/get-started-2-minutes/

Configuration Maven avec couverture de tests

Ajout des plugins du scanner Sonar et de Jacoco (calcul de couverture de tests) dans le pom.xml

Maven compiler →

Maven surefire (=test) plugins →

Scanner Sonar →

Plugin Jacoco →

```xml
<plugin>
    <artifactId>maven-compiler-plugin</artifactId>
    <version>3.8.1</version>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-surefire-plugin</artifactId>
    <version>2.22.2</version>
</plugin>
<plugin>
  <groupId>org.sonarsource.scanner.maven</groupId>
  <artifactId>sonar-maven-plugin</artifactId>
  <version>3.7.0.1746</version>
</plugin>
<plugin>
  <groupId>org.jacoco</groupId>
  <artifactId>jacoco-maven-plugin</artifactId>
  <version>0.8.6</version>
</plugin>
```

Configuration Maven avec couverture de tests

Ajout d'un profil pour compiler avec Jacoco dans le pom.xml

Nom du profil

Prepare-agent

= calcul de couverture pendant la compilation et le passage des tests

Prepare-agent

= génération du rapport de couverture Jacoco

```
<profiles>

  <profile>
    <id>coverage</id>
    <build>
      <plugins>
        <plugin>
          <groupId>org.jacoco</groupId>
          <artifactId>jacoco-maven-plugin</artifactId>
          <executions>
            <execution>
              <id>prepare-agent</id>
              <goals>
                <goal>prepare-agent</goal>
              </goals>
            </execution>
            <execution>
              <id>report</id>
              <goals>
                <goal>report</goal>
              </goals>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>
  </profile>

</profiles>
```

Configuration Maven avec couverture de tests

Exécution en même temps (ou séparément) que la compilation et les tests

```
$ mvn clean verify -Pcoverage sonar:sonar
```

Passage des tests et exportation des sorties Jacobo

Exécution du profil

Scanner sonar sur le code et Récupération du rapport de couverture de tests

```
$ mvn clean verify -Pcoverage
```

```
$ mvn sonar:sonar
```

Dans votre projet

Solution préférable pour l'instant :

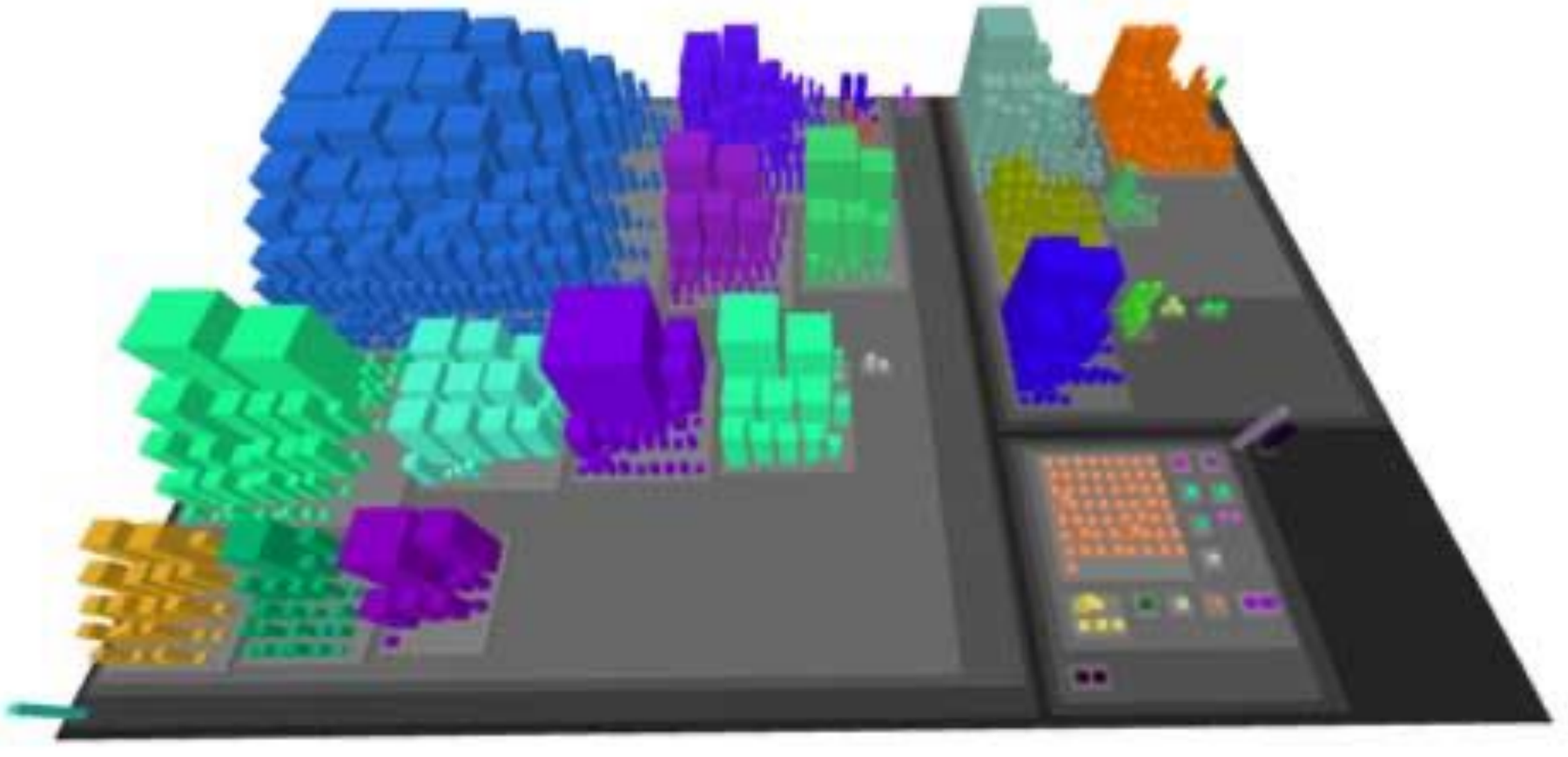
- Faire le setup simple dans le module player
- Exécuter la commande maven/sonar dans le module player

Attention, si vous exécutez la commande sur le projet global, les classes source du projet tooling seront comptés dans le calcul de couverture (et donc le taux de couverture sera faux et plus bas)

Projets exemples et pom.xml de référence

- Projet simple :
  - https://github.com/SonarSource/sonar-scanning-examples/tree/master/sonarqube-scanner-maven/maven-basic
- Projet multi-modules **(pour plus tard peut être)**
  - https://github.com/SonarSource/sonar-scanning-examples/tree/master/sonarqube-scanner-maven/maven-multimodule

Plugin dans Sonar...



- SoftVis3D
  - https://softvis3d.com/#/
- Installation depuis Sonar : 'Administration -> Marketplace'
  - Attention, cela met à jour l'image Docker si vous utilisez celle-ci...

Jacoco, maven et JDK 10+

- L'appel à jacoco directement en ligne de commande ne marche plus en JDK 10+
  - Incompatibilité entre Maven Surefire, le plugin Sonar, le JDK, etc.

- **OBSOLETE :**
  - **mvn org.jacoco:jacoco-maven-plugin:prepare-agent clean package**
  - **mvn sonar:sonar**

Authentification

- **Suivant l'installation, il est parfois nécessaire de fournir l'adresse du serveur et un token de login :**
  - **mvn sonar:sonar -Dsonar.host.url=http://localhost:9000 -Dsonar.login LONG_TOKEN_HERE**

- **Sonar 8.6 (= latest à l'édition de ce cours) force l'authentification par défaut**
  - **https://docs.sonarqube.org/8.6/setup/upgrade-notes/**
  - **Pour faire des essais sur une version localhost :** Manually disable the **Force user authentication** property from **Administration > Configuration > General Settings > Security**.

Docker

- Client Docker
  - http://www.docker.com
  - Sous Linux et Mac, tout va très bien (Docker Desktop sur Mac
- Sous Windows, il vous faut
  - Soit une version Pro avec HyperV activé (Docker Desktop)
    - https://docs.docker.com/docker-for-windows/install/
  - Soit une version Home (Docker Desktop + WSL 2 backend)
    - https://docs.docker.com/docker-for-windows/install-windows-home/

Références et démos

- https://docs.sonarqube.org/latest/analysis/languages/java/
- https://docs.sonarqube.org/latest/analysis/scan/sonarscanner-for-maven/
- https://github.com/SonarSource/sonar-scanning-examples

- https://next.sonarqube.com/sonarqube/projects?sort=-analysis_date
- https://sonarcloud.io/projects et entrez des noms de projet ou baladez vous