



# SonarQube SAST Report

generated by Reflect Sonar

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SonarQube Project Name: vulnado

<b>Security</b> <b>0</b> Open Issues	A	<b>Reliability</b> <b>10</b> Open Issues	D	<b>Maintainability</b> <b>54</b> Open Issues	A
<b>Accepted Issues</b> <b>0</b> <small>Valid issues that were not fixed</small>	C	<b>Coverage</b> <b>0.0%</b> <small>on 205 lines to cover</small>	B	<b>Duplications</b> <b>0.0%</b> <small>on 571 lines</small>	D
<b>Security Hotspots</b> <b>18</b> Open Issues					

*This report is generated by ReflectSonar, an open-source tool to add the report generation mechanism to SonarQube Community and Developer Edition. It is not affiliated with SonarSource. The report is generated based on SonarQube instance that its information is provided. All data is fetched from SonarQube API. ReflectSonar just provides a way to generate the report.*

## Security Issues

Total: 0 issues

No issues found in this category. This indicates good code quality in this area.













## Reliability Issues

Total: 10 issues (High: 10)

Severity	File	Rule & Message
H	Comment.java (Line 41)	<b>S2095</b> Use try-with-resources or close this "Statement" in a "finally" clause.
H	Comment.java (Line 58)	<b>S1143</b> Remove this return statement from this finally block.
H	Comment.java (Line 66)	<b>S2095</b> Use try-with-resources or close this "PreparedStatement" in a "finally" clause.
H	Comment.java (Line 72)	<b>S1143</b> Remove this return statement from this finally block.
H	Comment.java (Line 79)	<b>S2095</b> Use try-with-resources or close this "PreparedStatement" in a "finally" clause.
H	Postgres.java (Line 94)	<b>S2095</b> Use try-with-resources or close this "PreparedStatement" in a "finally" clause.
H	Postgres.java (Line 108)	<b>S2095</b> Use try-with-resources or close this "PreparedStatement" in a "finally" clause.
H	Postgres.java (Line 35)	<b>S2095</b> Use try-with-resources or close this "Statement" in a "finally" clause.
H	User.java (Line 44)	<b>S2095</b> Use try-with-resources or close this "Statement" in a "finally" clause.
H	User.java (Line 61)	<b>S1143</b> Remove this return statement from this finally block.

## Maintainability Issues

Total: 54 issues (High: 2, Medium: 16, Low: 36)

Severity	File	Rule & Message
	Comment.java (Line 62)	<b>S3516</b> Refactor this method to not always return the same value.
	VulnadoApplicationTests.java (Line 13)	<b>S1186</b> Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation.
	LinkList.java (Line 28)	<b>S106</b> Replace this use of System.out by a logger.
	Comment.java (Line 38)	<b>S3740</b> Provide the parametrized type for this generic.
	Comment.java (Line 43)	<b>S6905</b> Don't use the query "SELECT *".
	Comment.java (Line 56)	<b>S106</b> Replace this use of System.err by a logger.
	Cowsay.java (Line 6)	<b>S1118</b> Add a private constructor to hide the implicit public one.
	Cowsay.java (Line 10)	<b>S106</b> Replace this use of System.out by a logger.
	LinkList.java (Line 13)	<b>S1118</b> Add a private constructor to hide the implicit public one.
	Postgres.java (Line 33)	<b>S106</b> Replace this use of System.out by a logger.
	Postgres.java (Line 56)	<b>S106</b> Replace this use of System.out by a logger.
	Postgres.java (Line 12)	<b>S1118</b> Add a private constructor to hide the implicit public one.
	Postgres.java (Line 16)	<b>S4925</b> Remove this "Class.forName()", it is useless.
	Postgres.java (Line 26)	<b>S106</b> Replace this use of System.err by a logger.
	Postgres.java (Line 86)	<b>S112</b> Define and throw a dedicated exception instead of using a generic one.
	User.java (Line 45)	<b>S106</b> Replace this use of System.out by a logger.
	User.java (Line 48)	<b>S106</b> Replace this use of System.out by a logger.

<b>M</b>	User.java (Line 59)	<b>S106</b> Replace this use of System.err by a logger.
<b>L</b>	Comment.java (Line 3)	<b>S1128</b> Remove this unused import 'org.apache.catalina.Server'.
<b>L</b>	Comment.java (Line 11)	<b>S1104</b> Make id a static final constant or non-public and provide accessors if needed.
<b>L</b>	Comment.java (Line 11)	<b>S1104</b> Make username a static final constant or non-public and provide accessors if needed.
<b>L</b>	Comment.java (Line 11)	<b>S1104</b> Make body a static final constant or non-public and provide accessors if needed.
<b>L</b>	Comment.java (Line 11)	<b>S1659</b> Declare "username" and all following declarations on a separate line.
<b>L</b>	Comment.java (Line 12)	<b>S1104</b> Make created_on a static final constant or non-public and provide accessors if needed.
<b>L</b>	Comment.java (Line 12)	<b>S116</b> Rename this field "created_on" to match the regular expression '[a-z][a-zA-Z0-9]*\$'.
<b>L</b>	Comment.java (Line 14)	<b>S117</b> Rename this local variable to match the regular expression '[a-z][a-zA-Z0-9]*\$'.
<b>L</b>	Comment.java (Line 26)	<b>S5411</b> Use a primitive boolean expression here.
<b>L</b>	Comment.java (Line 36)	<b>S100</b> Rename this method name to match the regular expression '[a-z][a-zA-Z0-9]*\$'.
<b>L</b>	Comment.java (Line 49)	<b>S117</b> Rename this local variable to match the regular expression '[a-z][a-zA-Z0-9]*\$'.
<b>L</b>	CommentsController.java (Line 17)	<b>S4488</b> Replace "@RequestMapping(method = RequestMethod.GET)" with "@GetMapping"
<b>L</b>	CommentsController.java (Line 24)	<b>S4488</b> Replace "@RequestMapping(method = RequestMethod.POST)" with "@PostMapping"
<b>L</b>	CommentsController.java (Line 30)	<b>S4488</b> Replace "@RequestMapping(method = RequestMethod.DELETE)" with "@DeleteMapping"

<b>L</b>	CommentsController.java (Line 37)	<b>S1104</b> Make username a static final constant or non-public and provide accessors if needed.
<b>L</b>	CommentsController.java (Line 38)	<b>S1104</b> Make body a static final constant or non-public and provide accessors if needed.
<b>L</b>	LoginController.java (Line 7)	<b>S1128</b> Remove this unused import 'org.springframework.stereotype'.
<b>L</b>	LoginController.java (Line 35)	<b>S1104</b> Make token a static final constant or non-public and provide accessors if needed.
<b>L</b>	User.java (Line 7)	<b>S1128</b> Remove this unused import 'io.jsonwebtoken.JwtParser'.
<b>L</b>	User.java (Line 8)	<b>S1128</b> Remove this unused import 'io.jsonwebtoken.SignatureAlgorithm'.
<b>L</b>	User.java (Line 23)	<b>S1488</b> Immediately return this expression instead of assigning it to the temporary variable "jws".
<b>L</b>	CowController.java (Line 6)	<b>S1128</b> Remove this unused import 'java.io.Serializable'.
<b>L</b>	LinkLister.java (Line 15)	<b>S2293</b> Replace the type specification in this constructor call with the diamond operator ("<>").
<b>L</b>	LinksController.java (Line 3)	<b>S1128</b> Remove this unused import 'org.springframework.boot'.
<b>L</b>	LinksController.java (Line 4)	<b>S1128</b> Remove this unused import 'org.springframework.http.HttpStatus'.
<b>L</b>	LinksController.java (Line 8)	<b>S1128</b> Remove this unused import 'java.io.Serializable'.
<b>L</b>	LoginController.java (Line 3)	<b>S1128</b> Remove this unused import 'org.springframework.boot'.
<b>L</b>	LoginController.java (Line 18)	<b>S4488</b> Replace "@RequestMapping(method = RequestMethod.POST)" with "@PostMapping"
<b>L</b>	LoginController.java (Line 30)	<b>S1104</b> Make username a static final constant or non-public and provide accessors if needed.
<b>L</b>	LoginController.java (Line 31)	<b>S1104</b> Make password a static final constant or non-public and provide accessors if needed.

L	Postgres.java (Line 79)	<b>S1643</b> Use a StringBuilder instead.
L	User.java (Line 13)	<b>S1104</b> Make id a static final constant or non-public and provide accessors if needed.
L	User.java (Line 13)	<b>S1104</b> Make username a static final constant or non-public and provide accessors if needed.
L	User.java (Line 13)	<b>S1104</b> Make hashedPassword a static final constant or non-public and provide accessors if needed.
L	User.java (Line 13)	<b>S1659</b> Declare "username" and all following declarations on a separate line.
L	User.java (Line 51)	<b>S117</b> Rename this local variable to match the regular expression '[a-z][a-zA-Z0-9]*\$'.