

SonarQube SAST Report

generated by Reflect Sonar

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SonarQube Project Name: vulnado

Security Open Issues	А	Reliability 10 Open Issues	D	Maintainability 54 Open Issues	А
Accepted Issues O Valid issues that were not fixed	С	Coverage 0.0% on 205 lines to cover	В	Duplications 0.0% on 571 lines	D
Security Hotspots 18 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 Path	Rule & Message
Н	src/main/java/com/scalesec/vulnado Comment.java (Line 41)	S2095 Use try-with-resources or close this "Statement" in a "finally" clause.
3 3 4 >>> 4 4 4	blematic Code: 8: List <comment> comments 9: try { 0: Connection cxn = Pos 1: stmt = cxn.createSta 2: 3: String query = "sele 4: ResultSet rs = stmt.</comment>	<pre>tgres.connection(); tement(); ct * from comments;";</pre>
H	src/main/java/com/scalesec/vulnado Comment.java (Line 58)	S1143 Remove this return statement from this finally block.
5 5 5 >>> 5 5	7: } finally {	<pre>.getClass().getName()+": "+e.getMessage());</pre>
Н	src/main/java/com/scalesec/vulnado Comment.java (Line 66)	S2095 Use try-with-resources or close this "PreparedStatement" in a "finally" clause.
66 66 >>> 66	5: Connection con = Pos	<pre>tatement = con.prepareStatement(sql); (1, id); nt.executeUpdate();</pre>
Н	src/main/java/com/scalesec/vulnado Comment.java (Line 72)	S1143 Remove this return statement from this finally block.





src/main/java/com/scalesec/vulnado Comment.java (Line 79)

S2095

Use try-with-resources or close this "PreparedStatement" in a "finally" clause.

■ Problematic Code:

```
76: private Boolean commit() throws SQLException {
77: String sql = "INSERT INTO comments (id, username, body, created_on) VALUES
(?,?,?,?)";
78: Connection con = Postgres.connection();
>>> 79: PreparedStatement pStatement = con.prepareStatement(sql);
80: pStatement.setString(1, this.id);
81: pStatement.setString(2, this.username);
82: pStatement.setString(3, this.body);
```



src/main/java/com/scalesec/vulnado Postgres.java (Line 94)

S2095

Use try-with-resources or close this "PreparedStatement" in a "finally" clause.

■ Problematic Code:

```
91: String sql = "INSERT INTO users (user_id, username, password, created_on) VALUES

(?, ?, ?, current_timestamp)";

92: PreparedStatement pStatement = null;

93: try {

>>> 94: pStatement = connection().prepareStatement(sql);

95: pStatement.setString(1, UUID.randomUUID().toString());

96: pStatement.setString(2, username);

97: pStatement.setString(3, md5(password));
```



src/main/java/com/scalesec/vulnado Postgres.java

S2095

Use try-with-resources or close this "PreparedStatement" in a "finally" clause.

■ Problematic Code:

(Line 108)

```
105: String sql = "INSERT INTO comments (id, username, body, created_on) VALUES (?, ?, ?, current_timestamp)";
106: PreparedStatement pStatement = null;
107: try {

>>> 108: pStatement = connection().prepareStatement(sql);
109: pStatement.setString(1, UUID.randomUUID().toString());
110: pStatement.setString(2, username);
111: pStatement.setString(3, body);
```



src/main/java/com/scalesec/vulnado Postgres.java (Line 35)

S2095

Use try-with-resources or close this "Statement" in a "finally" clause.



```
■ Problematic Code:
```

```
32: try {
33: System.out.println("Setting up Database...");
34: Connection c = connection();
>>> 35: Statement stmt = c.createStatement();
36:
37: // Create Schema
38: stmt.executeUpdate("CREATE TABLE IF NOT EXISTS users(user_id VARCHAR (36))
PRIMARY KEY, username VARCHAR (50) UNIQUE NOT NULL, password VARCHAR (50) NOT NULL, created_on
TIMESTAMP NOT NULL, last_login TIMESTAMP)");
```



src/main/java/com/scalesec/vulnado User.java (Line 44)

S2095

Use try-with-resources or close this "Statement" in a "finally" clause.

■ Problematic Code:



src/main/java/com/scalesec/vulnado User.java (Line 61)

S1143

Remove this return statement from this finally block.

■ Problematic Code:

```
58: e.printStackTrace();
59: System.err.println(e.getClass().getName()+": "+e.getMessage());
60: } finally {
>>> 61: return user;
62: }
63: }
64: }
```



Maintainability Issues

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

Severity	File Path	Rule & Message				
Н	src/main/java/com/scalesec/vulnado Comment.java (Line 62)	S3516 Refactor this method to not always return the same value.				
- Droot	■ Problemskin Godo.					

Problematic Code:

```
59: }
61:
62:
    public static Boolean delete(String id) {
     try {
64:
         String sql = "DELETE FROM comments where id = ?";
65:
         Connection con = Postgres.connection();
```



src/test/java/com/scalesec/vulnado VulnadoApplicationTests.java (Line 13)

S1186

Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation.

■ Problematic Code:

```
10: public class VulnadoApplicationTests {
 11:
 12:
        @Test
      public void contextLoads() {
13:
 14:
 15:
 16: }
```



src/main/java/com/scalesec/vulnado LinkLister.java (Line 28)

S106

Replace this use of System.out by a logger.

■ Problematic Code:

```
25: try {
            URL aUrl= new URL(url);
             String host = aUrl.getHost();
            System.out.println(host);
              if (host.startsWith("172.") || host.startsWith("192.168") ||
host.startsWith("10.")){
    30:
              throw new BadRequest("Use of Private IP");
              } else {
```



src/main/java/com/scalesec/vulnado Comment.java (Line 38)

S3740

Provide the parametrized type for this generic.



```
35:
36: public static List<Comment> fetch_all() {
37: Statement stmt = null;
>>> 38: List<Comment> comments = new ArrayList();
39: try {
40: Connection cxn = Postgres.connection();
41: stmt = cxn.createStatement();
```



src/main/java/com/scalesec/vulnado Comment.java (Line 43)

S6905

Don't use the query "SELECT *".

■ Problematic Code:

```
40: Connection cxn = Postgres.connection();
41: stmt = cxn.createStatement();
42:
>>> 43: String query = "select * from comments;";
44: ResultSet rs = stmt.executeQuery(query);
45: while (rs.next()) {
46: String id = rs.getString("id");
```



src/main/java/com/scalesec/vulnado Comment.java

S106

Replace this use of System.err by a logger.

■ Problematic Code:

(Line 56)



src/main/java/com/scalesec/vulnado Cowsay.java (Line 6)

S1118

Add a private constructor to hide the implicit public one.

■ Problematic Code:

```
3: import java.io.BufferedReader;
4: import java.io.InputStreamReader;
5:
>>> 6: public class Cowsay {
7:  public static String run(String input) {
8:    ProcessBuilder processBuilder = new ProcessBuilder();
9:    String cmd = "/usr/games/cowsay '" + input + "'";
```



src/main/java/com/scalesec/vulnado Cowsay.java (Line 10)

S106

Replace this use of System.out by a logger.



```
■ Problematic Code:
```

```
7: public static String run(String input) {
8:    ProcessBuilder processBuilder = new ProcessBuilder();
9:    String cmd = "/usr/games/cowsay '" + input + "'";
>>> 10:    System.out.println(cmd);
11:    processBuilder.command("bash", "-c", cmd);
12:
13:    StringBuilder output = new StringBuilder();
```



src/main/java/com/scalesec/vulnado LinkLister.java (Line 13)

S1118

Add a private constructor to hide the implicit public one.

■ Problematic Code:

```
10: import java.net.*;
11:
12:
>>> 13: public class LinkLister {
   14:   public static List<String> getLinks(String url) throws IOException {
   15:     List<String> result = new ArrayList<String>();
   16:     Document doc = Jsoup.connect(url).get();
```



src/main/java/com/scalesec/vulnado Postgres.java (Line 33)

S106

Replace this use of System.out by a logger.

■ Problematic Code:



src/main/java/com/scalesec/vulnado Postgres.java (Line 56)

S106

Replace this use of System.out by a logger.

■ Problematic Code:



src/main/java/com/scalesec/vulnado Postgres.java (Line 12)

S1118

Add a private constructor to hide the implicit public one.



```
■ Problematic Code:
```

```
9: import java.sql.Statement;
10: import java.util.UUID;
11:
>>> 12: public class Postgres {
13:
14: public static Connection connection() {
15: try {
```



src/main/java/com/scalesec/vulnado Postgres.java (Line 16)

S4925

Remove this "Class.forName()", it is useless.

■ Problematic Code:

```
13:
14: public static Connection connection() {
15: try {
>>> 16: Class.forName("org.postgresql.Driver");
17: String url = new StringBuilder()
18: .append("jdbc:postgresql://")
19: .append(System.getenv("PGHOST"))
```



src/main/java/com/scalesec/vulnado Postgres.java (Line 26)

S106

Replace this use of System.err by a logger.

■ Problematic Code:



src/main/java/com/scalesec/vulnado Postgres.java (Line 86)

S112

Define and throw a dedicated exception instead of using a generic one.

■ Problematic Code:

```
83:
84:  // For specifying wrong message digest algorithms
85:  catch (NoSuchAlgorithmException e) {
>>> 86:  throw new RuntimeException(e);
87:  }
88:  }
89:
```



src/main/java/com/scalesec/vulnado User.java (Line 45)

S106

Replace this use of System.out by a logger.



```
42: try {
43:    Connection cxn = Postgres.connection();
44:    stmt = cxn.createStatement();
>>> 45:    System.out.println("Opened database successfully");
46:
47:    String query = "select * from users where username = '" + un + "' limit 1";
48:    System.out.println(query);
```



src/main/java/com/scalesec/vulnado User.java (Line 48)

S106

Replace this use of System.out by a logger.

■ Problematic Code:

```
45: System.out.println("Opened database successfully");
46:
47: String query = "select * from users where username = '" + un + "' limit 1";
>>> 48: System.out.println(query);
49: ResultSet rs = stmt.executeQuery(query);
50: if (rs.next()) {
51: String user_id = rs.getString("user_id");
```



src/main/java/com/scalesec/vulnado User.java (Line 59)

S106

Replace this use of System.err by a logger.

■ Problematic Code:

```
56: cxn.close();
57: } catch (Exception e) {
58: e.printStackTrace();
>>> 59: System.err.println(e.getClass().getName()+": "+e.getMessage());
60: } finally {
61: return user;
62: }
```



src/main/java/com/scalesec/vulnado Comment.java (Line 3)

S1128

Remove this unused import 'org.apache.catalina.Server'.

■ Problematic Code:

```
1: package com.scalesec.vulnado;
2:
>>> 3: import org.apache.catalina.Server;
4: import java.sql.*;
5: import java.util.Date;
6: import java.util.List;
```



src/main/java/com/scalesec/vulnado Comment.java (Line 11)

S1104

Make id a static final constant or non-public and provide accessors if needed.



```
8: import java.util.UUID;
9:
10: public class Comment {
>>> 11: public String id, username, body;
12: public Timestamp created_on;
13:
14: public Comment(String id, String username, String body, Timestamp created_on) {
```



src/main/java/com/scalesec/vulnado Comment.java (Line 11)

S1104

Make username a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
8: import java.util.UUID;
9:
10: public class Comment {
>>> 11:    public String id, username, body;
12:    public Timestamp created_on;
13:
14:    public Comment(String id, String username, String body, Timestamp created_on) {
```



src/main/java/com/scalesec/vulnado Comment.java (Line 11)

S1104

Make body a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
8: import java.util.UUID;
9:
10: public class Comment {
>>> 11: public String id, username, body;
12: public Timestamp created_on;
13:
14: public Comment(String id, String username, String body, Timestamp created_on) {
```



src/main/java/com/scalesec/vulnado Comment.java (Line 11)

S1659

Declare "username" and all following declarations on a separate line.

■ Problematic Code:

```
8: import java.util.UUID;
9:
10: public class Comment {
>>> 11: public String id, username, body;
12: public Timestamp created_on;
13:
14: public Comment(String id, String username, String body, Timestamp created_on) {
```



src/main/java/com/scalesec/vulnado Comment.java (Line 12)

S1104

Make created_on a static final constant or non-public and provide accessors if needed.



```
9:
10: public class Comment {
11: public String id, username, body;
12: public Timestamp created_on;
13:
14: public Comment(String id, String username, String body, Timestamp created_on) {
15:
       this.id = id;
```



src/main/java/com/scalesec/vulnado Comment.java (Line 12)

S116

Rename this field "created on" to match the regular expression '^[a-z][a-zA-Z0-9]*\$'.

■ Problematic Code:

```
9:
10: public class Comment {
11: public String id, username, body;
12: public Timestamp created_on;
14:
    public Comment(String id, String username, String body, Timestamp created_on) {
       this.id = id;
15:
```



src/main/java/com/scalesec/vulnado Comment.java (Line 14)

S117

Rename this local variable to match the regular expression '^[a-z][a-zA-Z0-9]*\$'.

■ Problematic Code:

```
11: public String id, username, body;
    public Timestamp created_on;
13:
14: public Comment(String id, String username, String body, Timestamp created_on) {
      this.id = id;
16:
      this.username = username;
17:
        this.body = body;
```



src/main/java/com/scalesec/vulnado Comment.java (Line 26)

S5411

Use a primitive boolean expression here.

■ Problematic Code:

```
Timestamp timestamp = new Timestamp(time);
    24:
            Comment comment = new Comment(UUID.randomUUID().toString(), username, body,
timestamp);
    25:
           try {
             if (comment.commit()) {
    26:
    27:
               return comment;
    28:
              } else {
                throw new BadRequest("Unable to save comment");
```



src/main/java/com/scalesec/vulnado Comment.java (Line 36)

S100

Rename this method name to match the regular expression '^[a-z][a-zA-Z0-9]*\$'.



```
33:  }
34:  }
35:
>>> 36:  public static List<Comment> fetch_all() {
37:    Statement stmt = null;
38:    List<Comment> comments = new ArrayList();
39:    try {
```



src/main/java/com/scalesec/vulnado Comment.java (Line 49)

S117

Rename this local variable to match the regular expression '^[a-z][a-zA-Z0-9]*\$'.

■ Problematic Code:

```
46: String id = rs.getString("id");
47: String username = rs.getString("username");
48: String body = rs.getString("body");

>>> 49: Timestamp created_on = rs.getTimestamp("created_on");
50: Comment c = new Comment(id, username, body, created_on);
51: comments.add(c);
52: }
```



src/main/java/com/scalesec/vulnado CommentsController.java (Line 17)

S4488

Replace "@RequestMapping(method = RequestMethod.GET)" with "@GetMapping"

■ Problematic Code:

```
14: private String secret;
15:
16: @CrossOrigin(origins = "*")
>>> 17: @RequestMapping(value = "/comments", method = RequestMethod.GET, produces = "application/json")
18: List<Comment> comments(@RequestHeader(value="x-auth-token") String token) {
19: User.assertAuth(secret, token);
20: return Comment.fetch_all();
```



src/main/java/com/scalesec/vulnado CommentsController.java (Line 24)

S4488

Replace "@RequestMapping(method = RequestMethod.POST)" with "@PostMapping"

■ Problematic Code:

```
21: }
22:
23: @CrossOrigin(origins = "*")
>>> 24: @RequestMapping(value = "/comments", method = RequestMethod.POST, produces =
"application/json", consumes = "application/json")
25: Comment createComment(@RequestHeader(value="x-auth-token") String token, @RequestBody
CommentRequest input) {
26: return Comment.create(input.username, input.body);
27: }
```



src/main/java/com/scalesec/vulnado CommentsController.java (Line 30)

S4488

Replace "@RequestMapping(method = RequestMethod.DELETE)" with "@DeleteMapping"



```
27: }
28:
29: @CrossOrigin(origins = "*")
>>> 30: @RequestMapping(value = "/comments/{id}", method = RequestMethod.DELETE, produces = "application/json")
31: Boolean deleteComment(@RequestHeader(value="x-auth-token") String token,
@PathVariable("id") String id) {
32: return Comment.delete(id);
33: }
```



src/main/java/com/scalesec/vulnado CommentsController.java (Line 37)

S1104

Make username a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
34: }
35:
36: class CommentRequest implements Serializable {
>>> 37:    public String username;
38:    public String body;
39: }
40:
```



src/main/java/com/scalesec/vulnado CommentsController.java (Line 38)

S1104

Make body a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
35:
36: class CommentRequest implements Serializable {
37:    public String username;
>>> 38:    public String body;
39: }
40:
41: @ResponseStatus(HttpStatus.BAD_REQUEST)
```



src/main/java/com/scalesec/vulnado LoginController.java (Line 7)

S1128

Remove this unused import 'org.springframework.stereotype'.

■ Problematic Code:

```
4: import org.springframework.http.HttpStatus;
5: import org.springframework.web.bind.annotation.*;
6: import org.springframework.boot.autoconfigure.*;
>>> 7: import org.springframework.stereotype.*;
8: import org.springframework.beans.factory.annotation.*;
9: import java.io.Serializable;
10:
```



src/main/java/com/scalesec/vulnado LoginController.java (Line 35)

S1104

Make token a static final constant or non-public and provide accessors if needed.



```
■ Problematic Code:
```

```
32: }
33:
34: class LoginResponse implements Serializable {
>>> 35: public String token;
36: public LoginResponse(String msg) { this.token = msg; }
37: }
38:
```



src/main/java/com/scalesec/vulnado User.java (Line 7)

S1128

Remove this unused import 'io.jsonwebtoken.JwtParser'.

■ Problematic Code:

```
4: import java.sql.Statement;
5: import java.sql.ResultSet;
6: import io.jsonwebtoken.Jwts;
>>> 7: import io.jsonwebtoken.JwtParser;
8: import io.jsonwebtoken.SignatureAlgorithm;
9: import io.jsonwebtoken.security.Keys;
10: import javax.crypto.SecretKey;
```



src/main/java/com/scalesec/vulnado User.java (Line 8)

S1128

Remove this unused import 'io.jsonwebtoken.SignatureAlgorithm'.

■ Problematic Code:

```
5: import java.sql.ResultSet;
6: import io.jsonwebtoken.Jwts;
7: import io.jsonwebtoken.JwtParser;
>>> 8: import io.jsonwebtoken.SignatureAlgorithm;
9: import io.jsonwebtoken.security.Keys;
10: import javax.crypto.SecretKey;
11:
```



src/main/java/com/scalesec/vulnado User.java (Line 23)

S1488

Immediately return this expression instead of assigning it to the temporary variable "jws".

■ Problematic Code:

```
20:
21: public String token(String secret) {
22:    SecretKey key = Keys.hmacShaKeyFor(secret.getBytes());
>>> 23:    String jws = Jwts.builder().setSubject(this.username).signWith(key).compact();
24:    return jws;
25:  }
26:
```



src/main/java/com/scalesec/vulnado CowController.java (Line 6)

S1128

Remove this unused import 'java.io.Serializable'.



```
3: import org.springframework.web.bind.annotation.*;
4: import org.springframework.boot.autoconfigure.*;
5:
6: import java.io.Serializable;
7:
8: @RestController
9: @EnableAutoConfiguration
```



src/main/java/com/scalesec/vulnado LinkLister.java (Line 15)

S2293

Replace the type specification in this constructor call with the diamond operator ("<>").

■ Problematic Code:

```
12:
13: public class LinkLister {
14: public static List<String> getLinks(String url) throws IOException {
>>> 15: List<String> result = new ArrayList<String>();
16: Document doc = Jsoup.connect(url).get();
17: Elements links = doc.select("a");
18: for (Element link : links) {
```



src/main/java/com/scalesec/vulnado LinksController.java (Line 3)

S1128

Remove this unused import 'org.springframework.boot'.

■ Problematic Code:

```
1: package com.scalesec.vulnado;
2:
>>> 3: import org.springframework.boot.*;
4: import org.springframework.http.HttpStatus;
5: import org.springframework.web.bind.annotation.*;
6: import org.springframework.boot.autoconfigure.*;
```



src/main/java/com/scalesec/vulnado LinksController.java (Line 4)

S1128

Remove this unused import 'org.springframework.http.HttpStatus'.

■ Problematic Code:

```
1: package com.scalesec.vulnado;
2:
3: import org.springframework.boot.*;
>>> 4: import org.springframework.http.HttpStatus;
5: import org.springframework.web.bind.annotation.*;
6: import org.springframework.boot.autoconfigure.*;
7: import java.util.List;
```



src/main/java/com/scalesec/vulnado LinksController.java (Line 8)

S1128

Remove this unused import 'java.io.Serializable'.



```
5: import org.springframework.web.bind.annotation.*;
6: import org.springframework.boot.autoconfigure.*;
7: import java.util.List;
8: import java.io.Serializable;
9: import java.io.IOException;
10:
11:
```



src/main/java/com/scalesec/vulnado LoginController.java (Line 3)

S1128

Remove this unused import 'org.springframework.boot'.

■ Problematic Code:

```
1: package com.scalesec.vulnado;
2:
>>> 3: import org.springframework.boot.*;
4: import org.springframework.http.HttpStatus;
5: import org.springframework.web.bind.annotation.*;
6: import org.springframework.boot.autoconfigure.*;
```



src/main/java/com/scalesec/vulnado LoginController.java (Line 18)

S4488

Replace "@RequestMapping(method = RequestMethod.POST)" with "@PostMapping"

■ Problematic Code:

```
15: private String secret;
16:
17: @CrossOrigin(origins = "*")
>>> 18: @RequestMapping(value = "/login", method = RequestMethod.POST, produces =
"application/json", consumes = "application/json")
19: LoginResponse login(@RequestBody LoginRequest input) {
20: User user = User.fetch(input.username);
21: if (Postgres.md5(input.password).equals(user.hashedPassword)) {
```



src/main/java/com/scalesec/vulnado LoginController.java (Line 30)

S1104

Make username a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
27: }
28:
29: class LoginRequest implements Serializable {
>>> 30:    public String username;
31:    public String password;
32: }
33:
```



src/main/java/com/scalesec/vulnado LoginController.java (Line 31)

S1104

Make password a static final constant or non-public and provide accessors if needed.



```
28:
29: class LoginRequest implements Serializable {
30: public String username;
>>> 31: public String password;
32: }
33:
34: class LoginResponse implements Serializable {
```



src/main/java/com/scalesec/vulnado Postgres.java (Line 79)

S1643

Use a StringBuilder instead.

■ Problematic Code:



src/main/java/com/scalesec/vulnado User.java (Line 13)

S1104

Make id a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
10: import javax.crypto.SecretKey;
11:
12: public class User {
>>> 13:    public String id, username, hashedPassword;
14:
15:    public User(String id, String username, String hashedPassword) {
16:        this.id = id;
```



src/main/java/com/scalesec/vulnado User.java (Line 13)

S1104

Make username a static final constant or non-public and provide accessors if needed.

■ Problematic Code:

```
10: import javax.crypto.SecretKey;
11:
12: public class User {
>>> 13: public String id, username, hashedPassword;
14:
15: public User(String id, String username, String hashedPassword) {
16: this.id = id;
```



src/main/java/com/scalesec/vulnado User.java (Line 13)

S1104

Make hashedPassword a static final constant or non-public and provide accessors if needed.



```
10: import javax.crypto.SecretKey;
    12: public class User {
>>> 13: public String id, username, hashedPassword;
    15: public User(String id, String username, String hashedPassword) {
    16:
          this.id = id;
```



src/main/java/com/scalesec/vulnado User.java (Line 13)

S1659

Declare "username" and all following declarations on a separate

■ Problematic Code:

```
10: import javax.crypto.SecretKey;
    12: public class User {
>>> 13: public String id, username, hashedPassword;
    15: public User(String id, String username, String hashedPassword) {
           this.id = id;
    16:
```



src/main/java/com/scalesec/vulnado User.java (Line 51)

S117

Rename this local variable to match the regular expression '^[a-z][a-zA-Z0-9]*\$'.

■ Problematic Code:

```
48: System.out.println(query);
            ResultSet rs = stmt.executeQuery(query);
    50:
            if (rs.next()) {
>>> 51:
             String user_id = rs.getString("user_id");
              String username = rs.getString("username");
    53:
             String password = rs.getString("password");
    54:
               user = new User(user_id, username, password);
```