


SAST & SCA Report

Repository: pnkjshahare/AICodeReview
Pull Request: #42
Generated: 2025-12-09 11:13 UTC

□ SCA - Dependency Vulnerabilities

No dependency files found. SCA scan skipped.

□ SAST - Code Vulnerabilities



December 9th 2025, 11:13:23 am (UTC+00:00)
Source: C:\Users\panka\AppData\Local\Temp\sast_a5eaf372-5eaf-4883-8abd-3dec2311bc1e

Snyk Code Report

H

0 high issues

M

0 medium issues

L

7 low issues

SCAN COVERAGE

.cpp files: 1 .java files: 2

L

Use of Hardcoded Credentials

Fix Analysis

SNYK-CODE

CWE-798

NoHardcodedCredentials/test

Do not hardcode credentials in code.

Found in: **SecurityTest.java (line : 11)**

↓

Data Flow

11:47

private static final String DB USERNAME = "admin";

SOURCE

SINK

0

L

Use of Hardcoded Credentials

Fix Analysis

SNYK-CODE

CWE-798

NoHardcodedCredentials/test

Do not hardcode credentials in code.

Found in: **SecurityTest.java (line : 17)**

↓ Data Flow

17:17

```
"jdbc:mysql://localhost:3306/test", DB USERNAME, DB PASSWORD);
```

SOURCE SINK 0

L Use of Hardcoded Passwords

Fix Analysis

SNYK-CODE | CWE-798,CWE-259 | HardcodedPassword/test

Do not hardcode passwords in code. Found hardcoded password used in here.

Found in: **SecurityTest.java (line : 12)**

↓ Data Flow

SecurityTest.java

12:47

```
private static final String DB PASSWORD = "123456"; // insecure hardcoded password
```

SOURCE SINK 0

L Hardcoded Secret

Fix Analysis

SNYK-CODE | CWE-547 | HardcodedSecret/test

Hardcoded value string is used as a cipher key. Generate the value with a cryptographically strong random number generator such as `java.security.SecureRandom` instead.

Found in: **SecurityTest.java (line : 45)**

↓ Data Flow

44:22

```
String key = "1234567812345678"; // hardcoded key
```

SOURCE 0

45:38

```
SecretKeySpec skeySpec = new SecretKeySpec( key.getBytes(), "AES");
```

L Use of Cipher Without Integrity Protection

Fix Analysis

SNYK-CODE | CWE-327 | InsecureCipherNoIntegrity/test

The ECB mode used in `javax.crypto.Cipher.getInstance` does not provide integrity. Considered using Galois/Counter Mode.

Found in: **SecurityTest.java (line : 47)**

↓ Data Flow

```
47:44  
Cipher cipher = Cipher.getInstance("AES");  
SOURCE 0  
  
47:25  
Cipher cipher = Cipher.getInstance("AES");  
SINK 1
```

L Use of Insecure Default AES Cipher

Fix Analysis

SNYK-CODE | CWE-327 | InsecureDefaultAesCipher/test

Default AES/ECB algorithm (AES) used in `javax.crypto.Cipher.getInstance` may be insecure, because equal messages get encrypted to equal data. Consider using Galois/Counter Mode (algorithm AES/GCM/NoPadding).

Found in: **SecurityTest.java (line : 47)**

↓ Data Flow

```
47:44  
Cipher cipher = Cipher.getInstance("AES");  
SOURCE 0  
  
47:25  
Cipher cipher = Cipher.getInstance("AES");  
SINK 1
```



Use of Password Hash With Insufficient Computational Effort

Fix Analysis

SNYK-CODE | CWE-916 | InsecureHash/test

The MD5 hash (used in `java.security.MessageDigest.getInstance`) is insecure. Consider changing it to a secure hash algorithm

Found in: **SecurityTest.java** (line : 38)



Data Flow

38:54

```
MessageDigest md = MessageDigest.getInstance("MD5"); // weak hash
```

SOURCE 0



38:28

```
MessageDigest md = MessageDigest.getInstance("MD5"); // weak hash
```

SINK 1

