

Laporan Pengerjaan Praktikum Teknik Pemrograman Pertemuan 10

Oleh:

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PROSES PENGECEKAN

Persiapan Pengecekan


1. Download Sonar Qube dan sonar scanner
2. Buat sonar-project.properties sebagai konfigurasi
3. Cek program
4. Refactoring program
5. Clean

Before refactoring

Software Quality	
Security	0
Reliability	0
Maintainability	58
Severity	
Blocker	0
High	0
Medium	58
Low	0
Info	0
Clean Code Attribute	
Consistency	0

After Refactoring

Security	0
Reliability	0
Maintainability	4
<hr/>	
▼ Severity ?	
⊖ Blocker	0
⬢ High	0
⬆ Medium	4
▼ Low	0
ⓘ Info	0
<hr/>	

SonarQube™ technology is powered by [SonarSource SA](#) 

Jenis Kesalahan yang dibenarkan:

1. System.out.printf ➔ logger
2. Uncovered code
3. Duplikasi code

Capture:

%n should be used in place of \n to produce the platform-specific line separator. [↗](#)

Format strings should be used correctly [java:S3457](#) [↗](#)

Line affected: L47 • Effort: 1min • Introduced: 10 minutes ago

☐ Open ☐ Not assigned ☐ cert ☐ ... ☐ +

Where is the issue? Why is this an issue? **How can I fix it?** Activity More info

```

slf4jLog.debug("The number: ", 1); // Noncompliant - String contains no format specifiers.

logger.log(level, "Can't load library \"{0}\"!", "foo"); // Noncompliant - the single quote ' must be escaped
}

```

Software qualities impacted

Maintainability

Clean code attribute

Intentionality | Not logical

Invoke method(s) only conditionally. [↗](#)

"Preconditions" and logging arguments should not require evaluation [java:S2629](#) [↗](#)

Line affected: L47 • Effort: 5min • Introduced: 11 minutes ago

☐ Open ☐ Not assigned ☐ performance ☐ +

Where is the issue? Why is this an issue? Activity

```

48         logger.info(String.format("Available books: %d", bookCounts[0]));
49
50         logger.info(String.format("Borrowed books: %d", bookCounts[1]));

```

Invoke method(s) only conditionally.

Invoke method(s) only conditionally.

Software qualities impacted

Maintainability

Clean code attribute

Intentionality | Not efficient

```

package com;

public class Main {
    public static void main(String[] args) {
        System.out.println("Selamat Datang di Sistem Perpustakaan");
        System.out.println("-----");

        // Membuat dan memulai sistem perpustakaan
        LibrarySystem librarySystem = new LibrarySystem();
        librarySystem.start();
    }
}

```

New Code

Uncovered code

LESSON LEARN

- ❖ Pada praktikkum kali ini saya mempelajari serta merasakan bagaimana sulit dan rumitnya membuat suatu code agar clean code
- ❖ Penggunaan sonar qube sebagai media pembantu untuk mengecek clean code, apakah sudah pasti benar? Atau memang ada yang perlu dipelajari agar saya benar benar memahaminya
- ❖ Walau masih belum banyak yang saya pahami semoga saya berkesempatan untuk memahaminya

Link github: <https://github.com/Rasyiq603011/clean-code>