Laporan Pengerjaan Praktikum Teknik Pemrogaman Pertemuan 10

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PROSES PENGECEKAN

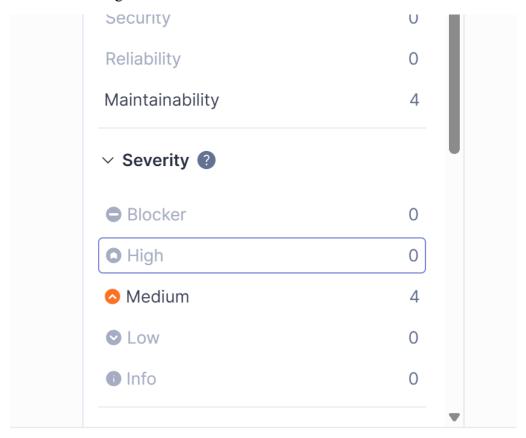
Persiapan Pengecekan

- 1. Download Sonar Qube dan sonar scanner
- 2. Buatkan 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
1 Info	0
∨ Clean Code Attribute ②	
Consistency	0

After Refactoring



SonarQube[™] technology is powered by <u>SonarSource SA</u>

Jenis Kesalahan yang dibenarkan:

- 1. System.out.printf → logger
- 2. Uncovered code
- 3. Duplikasi code

Capture:

Software qualities impacted %n should be used in place of \n to produce the platform-specific line separator. $\stackrel{ ext{ ext{c}}}{}$ Maintainability 🔕 Format strings should be used correctly java:S3457 [7] Clean code attribute Line affected: L47 • Effort: 1min • Introduced: 10 minutes ago Intentionality | Not logical ○ Open ∨ Not assigned ∨ cert ... + Activity How can I fix it? Where is the issue? Why is this an issue? More info ${\tt slf4jLog.debug("The\ number:\ ",\ 1);\ //\ Noncompliant\ -\ String\ contains\ no\ format\ specifiers.}$ $logger.log(level, "Can't load library \"{0}\"!", "foo"); // Noncompliant - the single quote ' must be escaped$ Software qualities impacted Invoke method(s) only conditionally. \subseteq Maintainability 🔕 "Preconditions" and logging arguments should not require evaluation java:S2629 Clean code attribute Line affected: L47 • Effort: 5min • Introduced: 11 minutes ago Intentionality | Not efficient ○ Open ∨ Not assigned ~ performance + Where is the issue? Why is this an issue? Activity logger.info(String.format("Available books: %d", bookCounts[0])); Invoke method(s) only conditionally. logger.info(String.format("Borrowed books: %d", bookCounts[1])); 49 Invoke method(s) only conditionally. 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 Uncovered code LibrarySystem librarySystem = new LibrarySystem(); librarySystem.start();

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