Softwrae quliaty cna be saperated itno tow categroies, Extrenal quliaty adn Intrenal qulaity.

Extrenal quliaty assrues that the prdouct is what edn user expetc

Intrenal qulaity assrues that the softwrae's strcuture sppuorts the delivrey of the requirmeents

External quality | **Internal** quality

end user | *developer*

sonarlint

sonarcloud

sonarqube

Reliability

🐞 Bugs   2   **B**

1   **B**

Security

🔒 Security Vulnerabilities   0   **A**   0   **A**

🛡 Security Hotspots   39   –   0   –

Maintainability

◯ Technical Debt   6 days   **C**   0   **A**
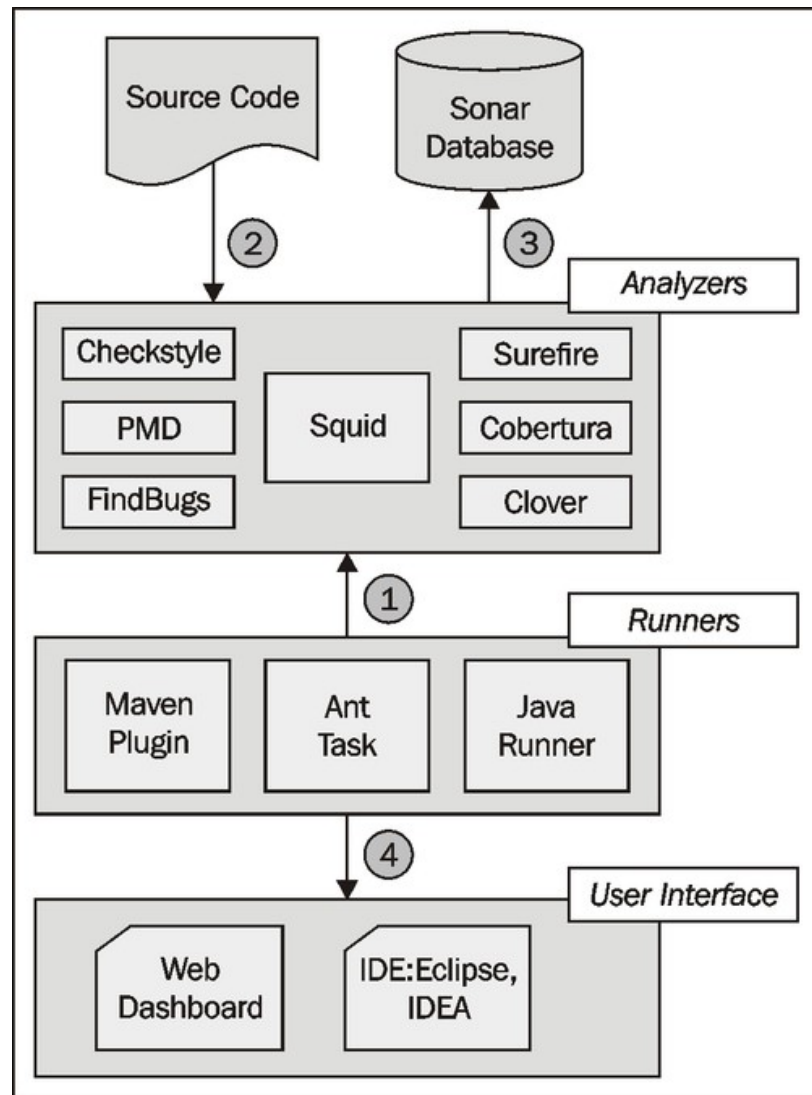
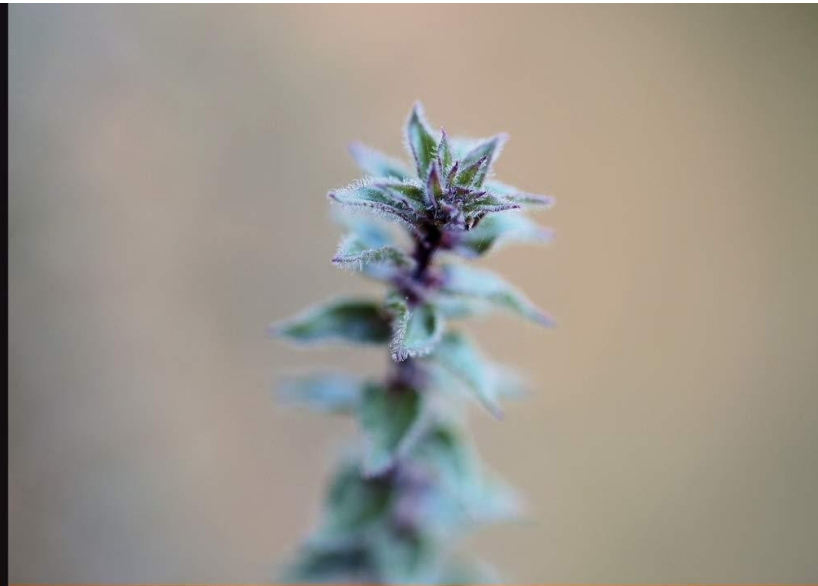☢ Code Smells   319   –   0   –

Features of Sonar

- Overview of all projects

- Coding rules

- Standard software metrics
  - Lines of code
  - Documented API
  - Cyclomatic complexity
  - Test coverage
  - Duplicated code

Features of Sonar

- Unit tests
- Drill down to source code
- Time Machine
- Build-tools ready
- User friendly
- Security measures
- Extensible plugin system

Sonar Code Quality Testing Essentials

Achieve higher levels of Software Quality with Sonar

Charalampos S. Arapidis