**SonarQube**

Authenticate with GitHub: Sign in to SonarQube with your GitHubcredentials.Import your GitLab projects: Import your GitHub Projects into SonarQube to easily set up SonarQube projects.  
Set your global settings.Add a personal access token for importing repositories.

Analyze projects with GitHub CI/CD: Integrate analysis into your build pipeline. Starting in Developer Edition, Sonar Scanners running in GitHub CI/CD jobs can automatically detect branches or merge requests being built so you don't need to specifically pass them as parameters to the scanner.

<https://www.swtestacademy.com/sonarqube-tutorial/>

**Static Code Analysis**

**Code Smell:**A hint that something has gone wrong somewhere in your code.

**Technical Debt:**Duplicated code   
No coding standards  
Potential bugs  
Complex code  
**Security hotspot:** Security-sensitive pieces of code that need to be manually reviewed. Upon review, you'll either find that there is no threat or that there is vulnerable code that needs to be fixed.  
**Vulnerability:** A security-related issue that represents a backdoor for attackers.