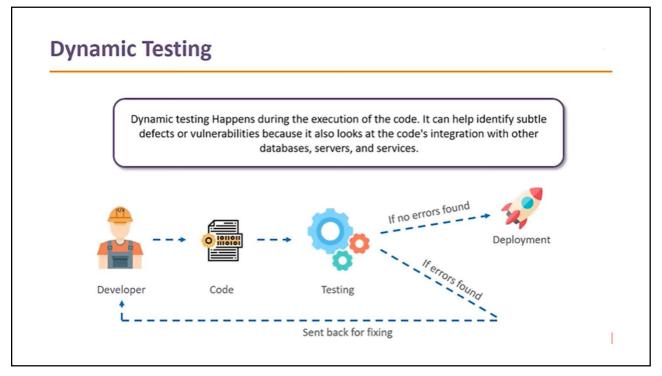
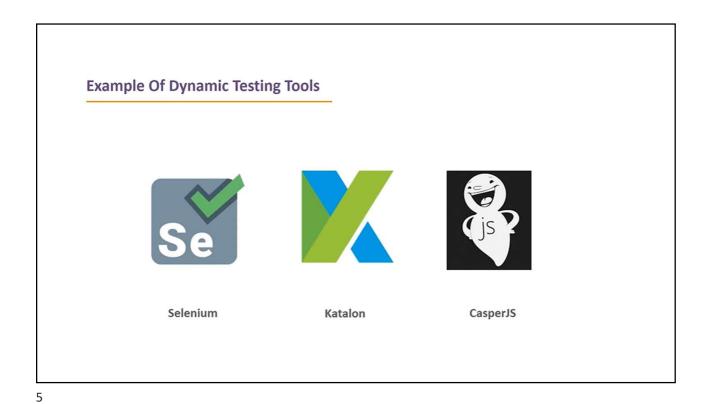


Testing levels:
Unit Testing
Integration Testing
System Testing
Acceptance Testing

3

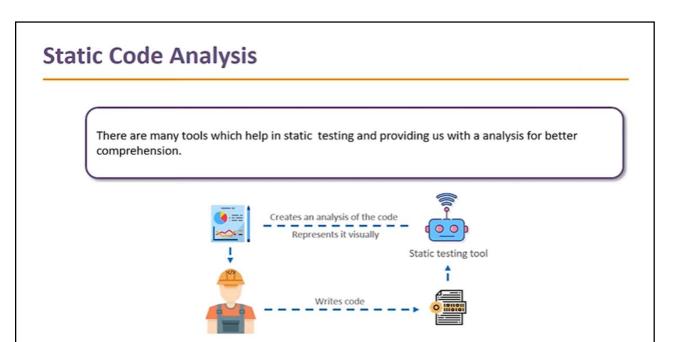




Static Testing

It is a method of debugging by examining source code before program is run, i.e. test the code without actually executing it. It does so by analyzing the code against a pre-set of coding rules and ensure that it conforms to the guidelines.

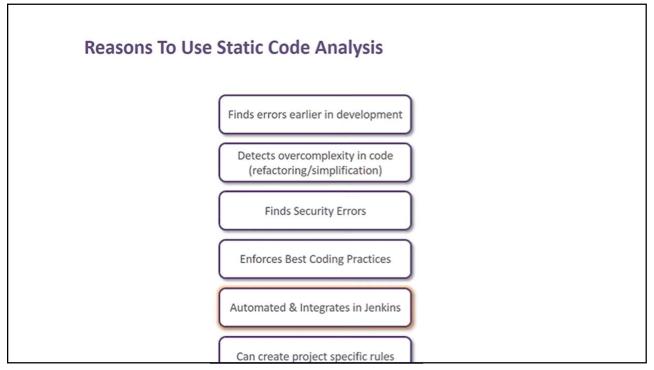




Developer

Code

7

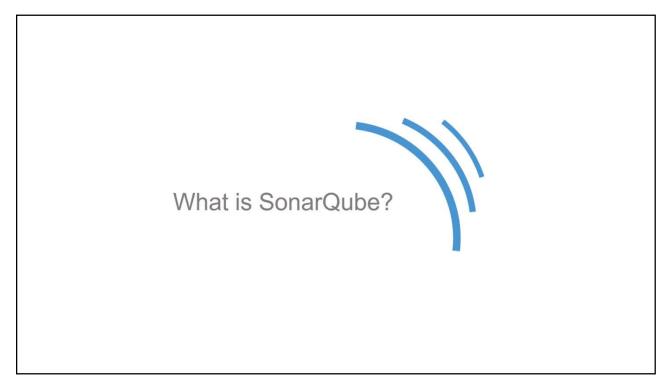


Example Of Static Testing Tools



SonarQube Coverity

9



It's an open source static testing analysis software. It is used by developers to manage source code quality and consistency. Some of the code quality checks are:

- Potential bugs
- Code defects to design inefficiencies
- Code duplication
- Lack of test coverage
- **Excess complexity**

11

Features of SonarQube

It can work with 25 different languages.







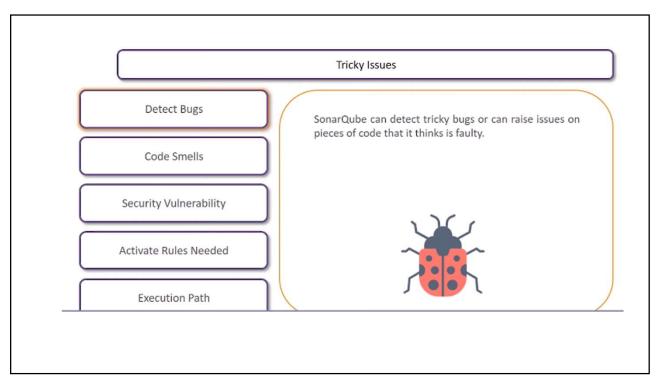


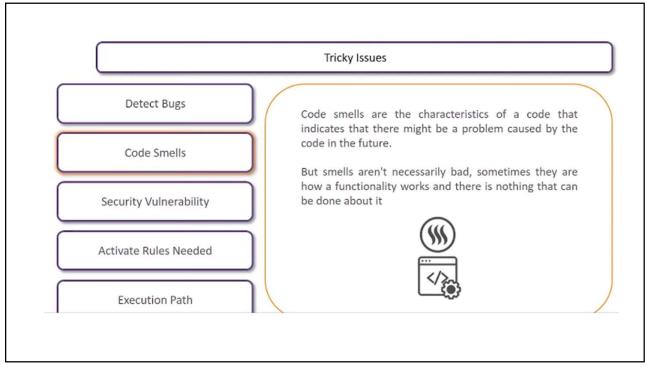


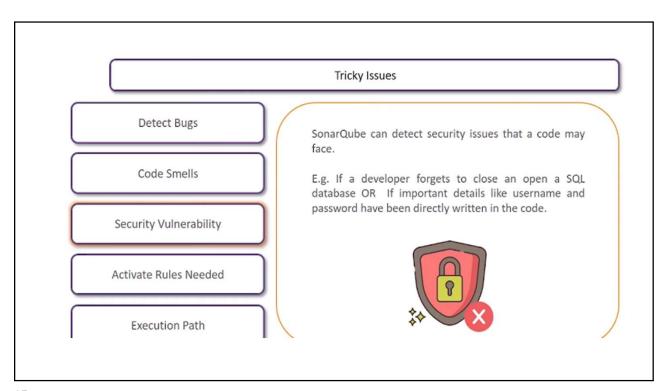


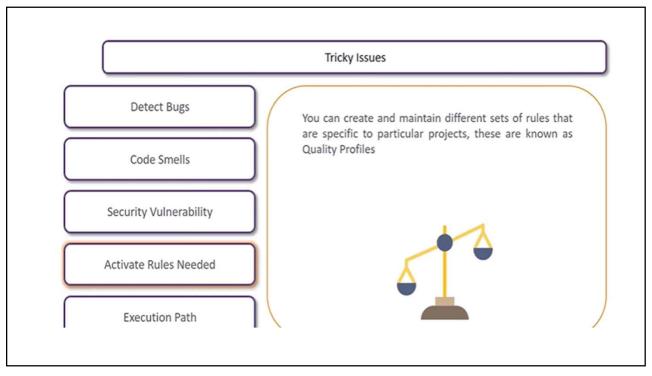


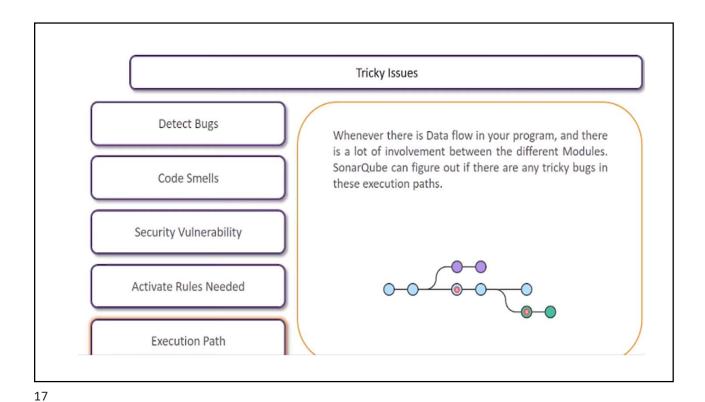












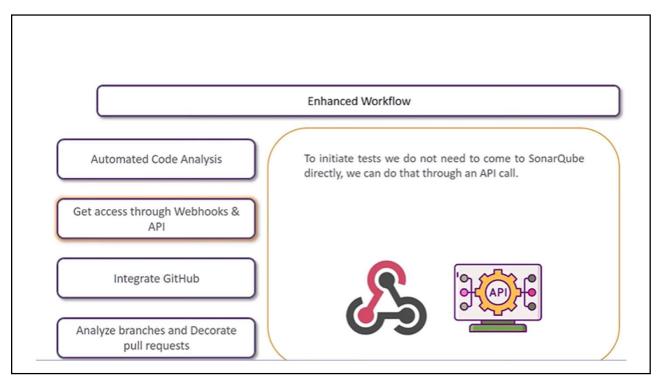
Enhanced Workflow(Ensure Better CI/CD)

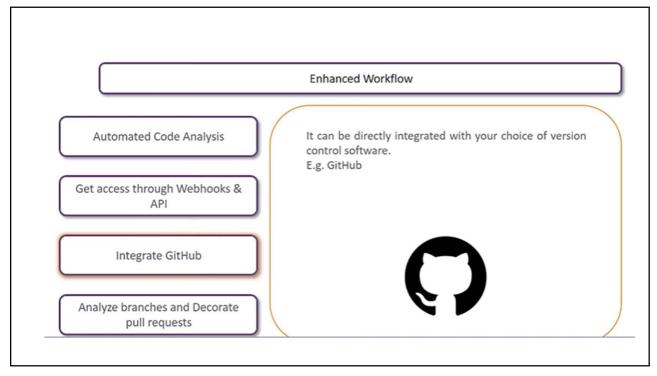
Automated Code Analysis

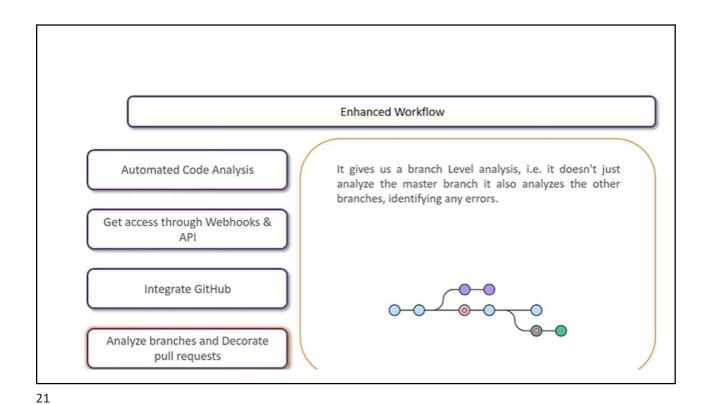
Get access through Webhooks & API

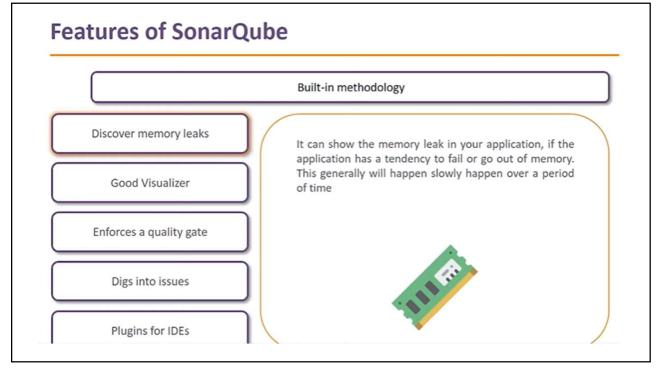
Integrate GitHub

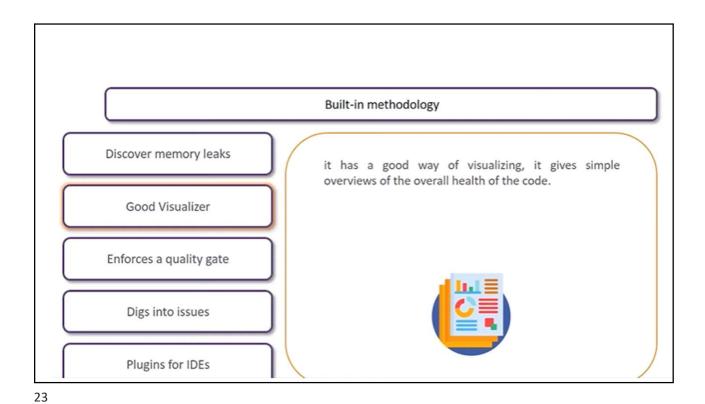
Analyze branches and Decorate pull requests



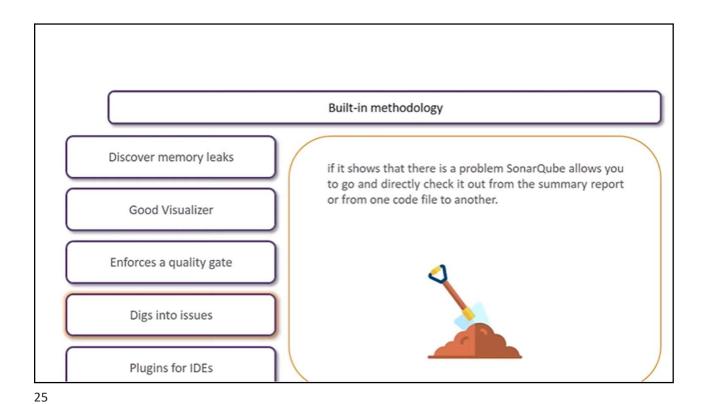








Built-in methodology Discover memory leaks It can enforce a quality gate, you can tell SonarQube based on your requirements and practices what code is wrong and what is correct. Good Visualizer Enforces a quality gate Digs into issues Plugins for IDEs



Discover memory leaks

It has plugin called 'SonarLint' which helps SonarQube to integrate itself with an IDE. Which means there is no need to install the whole SonarQube package.

Enforces a quality gate

Digs into issues

Plugins for IDEs